4440 0012

GEOLOGY OF THE SILVERTON DISTRICT
NYE COUNTY, NEVADA

1988 PROGRESS REPORT

SILVERTON PROJECT
(684)

by
Donald M. Hudson

Western Gold Exploration and Mining Company
Limited Partnership
240 South Rock Boulevard, Suite 143
Reno, Nevada 89502
(702) 348-0009

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF PLATES

SUMMARY

The objectives of the 1988 Silverton program were to acquire land, define targets, and test disseminated gold targets. The objectives were achieved by entering into a lease agreement, claim staking, detailed geologic mapping (1:2400 and 1:4800), sampling (646 rock chip samples), and by drilling 5,130 feet in 14 reverse-circulation rotary holes.

The Silverton district lies on the east edge of the Williams Ridge Cauldera. Numerous slide blocks of Paleozoic dolomite occur interleaved with pervasively argillized Oligocene ash-flow tuff. Gold, and to a lesser extent, silver are localized in silicified dolomite slide blocks in several places in the district. Silver occurs mainly in stockwork quartz veins along the northerly trending Silverton Fault in the middle of the district. The district has regionally extensive anomalies of arsenic, antimony, and mercury with more localized anomalies of gold, silver, thallium, selenium, and zinc.

The Silverton district has several target areas including the Prince Albert, Tuxedo, Grant, Silver King, Northridge, and Silverton Fault. The Tuxedo, Silverton Fault, and the west end of the Northridge zones were not drilled as a part of the 1988 program. The Silverton Fault was drilled by Olympic Mining Corp. in 1981 indicating a potential of 1,500,000 tons of about 3.75 opt silver. Drilling the Prince Albert and the east end of the Northridge zones revealed low-grade gold mineralization in jasperoid. One out of 5 holes in the Prince Albert zone encountered up to 0.036 opt gold in a thin interval of jasperoid (40 feet thick). Two out of six holes in the Northridge Zone intersected gold (up to 0.120 opt) in a jasperoid horizon but values over 0.02 opt Au are limited to 15 foot thicknesses in the drill holes. Two drill holes in the Silver King zone and one in the Grant zone did not yield significant gold mineralization.

There is potential for several low-grade gold deposits. However, steep topography limits the size of open-pitable potential ore bodies. Total potential for the district is probably less than 1,000,000 tons of open pitable low-grade gold deposits.

I recommend the property be dropped unless WestGold sees sufficient potential for a small tonnage, low-grade mine.

RECOMMENDATIONS

A careful review should be done by WestGold management to determine whether further work at Silverton is justified. Maximum potential in the district appears to be a total of approximately 1,000,000 tons of low grade gold (average ± 0.03 opt) in several small bodies which may not fall within WestGold's goals.

If work is continued at Silverton, I recommend the following (in approximate chronological order):

1. Clarify the land situation of the Pony claims with Westby and Locke.

2. Run metallurgical test on ore-grade intervals.

3. Select contractors for road work and drilling.

4. Construct roads and drill pads.

5. Drill a minimum of 4 additional 400 foot holes in the Prince Albert zone north of SL-88-5. Drill a minimum of 5 additional holes of 200 to 400 feet deep, targeting the jasperoid north and south of the 1988 holes in the Northridge zone. Drill at least 4 holes 400 feet deep (probably by tracking rig) on the western end of the Northridge zone.

   Drill at least 2 holes 400 feet deep in the vicinity of RDH-88-2 in the Silver King zone.

6. Evaluate results.

7. Propose further work if justified.

8. Write progress report with summary and recommendations.

Items 1 though 6 should be completed by mid-April, 1989, prior to an advanced royalty payment. The cost should not exceed $80,000.

If the property is dropped, approximately $10,000 of reclamation work will be required to complete the 1988 program.

INTRODUCTION

The objectives of the 1988 program for Silverton were to acquire land, define targets, test areas promising in precious metals, and delineate models of mineralization. These objectives were achieved by entering into a lease agreement, claim staking, detailed geologic mapping (1:2400 and 1:4800), sampling (647 rock chip), compilation of previous surface sample data, and drilling 5130 feet in 14 reverse-circulation rotary holes. The cost of the program was $190,000.

The Silverton project is located just north of U.S. 6 about 90 miles east of Tonopah in northeastern Nye County, Nevada (Figure 1). The property is in sections 14, 15, 21, 22, 23, 24, 25, 26, 27, 28, 33 and 34, T8N, R54E, MDBM. Access is by several improved and unimproved dirt roads from U.S. 6 between Black Rock Summit and Railroad Valley. The area is covered by the Lockes and Black Rock Summit 7.5' topographic sheets.

The area was prospected as early as 1914 by J.C. Tagnoni who staked the first claims. A small quantity of silver ore was produced in the 1920's (Kleinhamp and Ziony, 1984). Little exploration occurred on the property until 1980 when Olympic Mining Corp. obtained a lease on the claims. Between 1980 and 1983, Olympic Mining Corp. collected several thousand soil and rock chip samples and drilled 18 rotary holes (Tompson, 1980; Tompson and Crooker, 1981; Tompson, 1982). All of the data was obtained by WestGold except for the 1983 work. The bulk of the exploration by Olympic was in the Silverton Fault area with only scattered sampling and two drill holes outside of the fault zone. In 1986, Rex W. Huntley drilled three holes stepped out from one of Olympics holes in the Silver King zone. The data from this drilling was lost.

In October, 1987, Donald M. Hudson, IGI, collected 50 rock chip samples in the northern and eastern portions of the property with gold values up to 2.24 ppm and recommended the area for acquisition (Hudson, 1987). David R. Ernst collected an additional 62 samples in November, 1987 (Ernst, 1987). In December, 1987, IGI located 81 lode claims. In April, 1988, WestGold leased 158 unpatented lode claims and one unpatented placer claim from Rex W. Huntley, Esq.

Figure 2 shows the location and names of targets identified during the 1988 program. The target area names are used throughout this report. The names Prince Albert, Tuxedo, Grant and Silver King are named for the claims on which they in part occur.

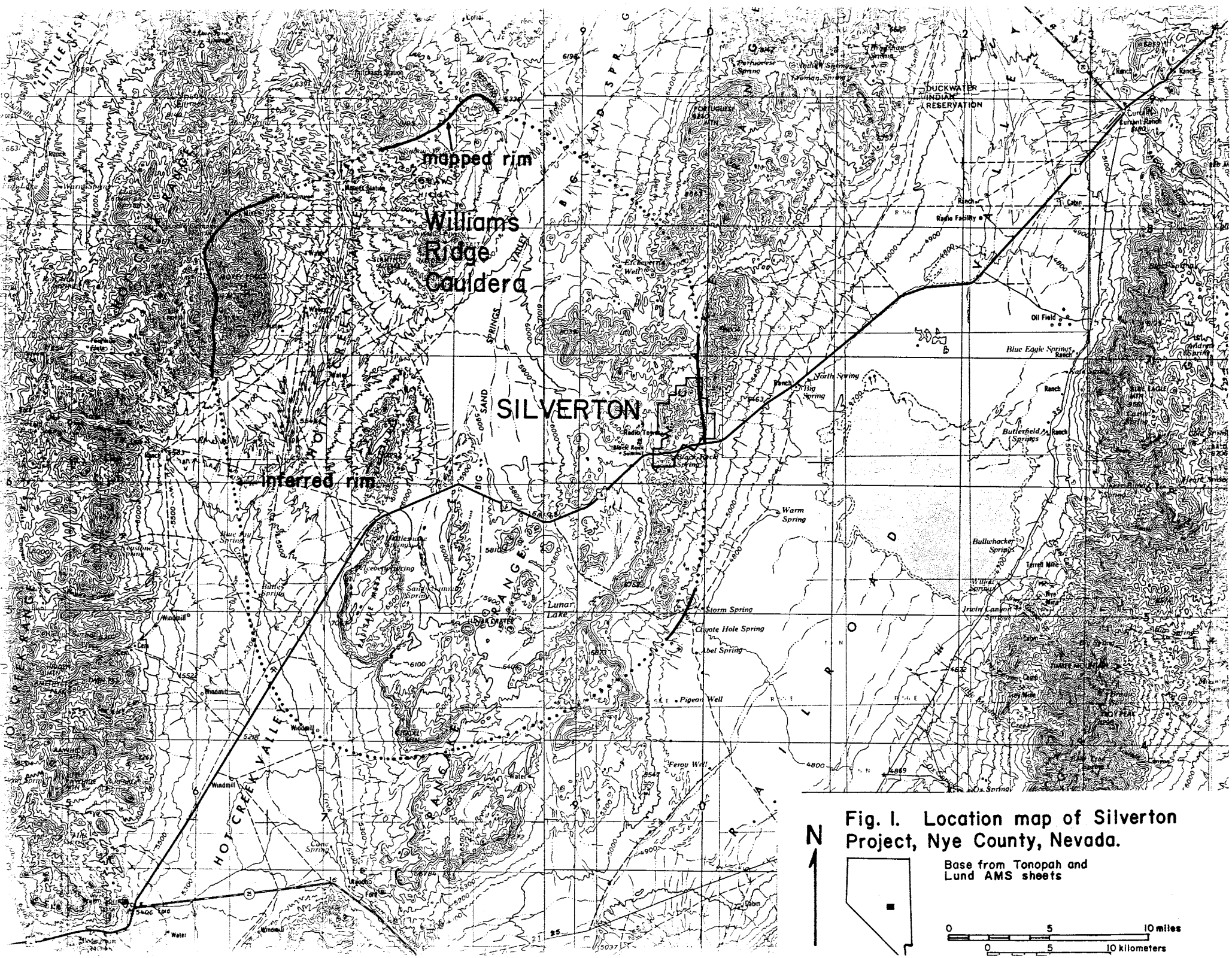


Fig. I. Location map of Silverton Project, Nye County, Nevada.

Base from Tonopah and Lund AMS sheets

0 5 10 miles

0 5 10 kilometers

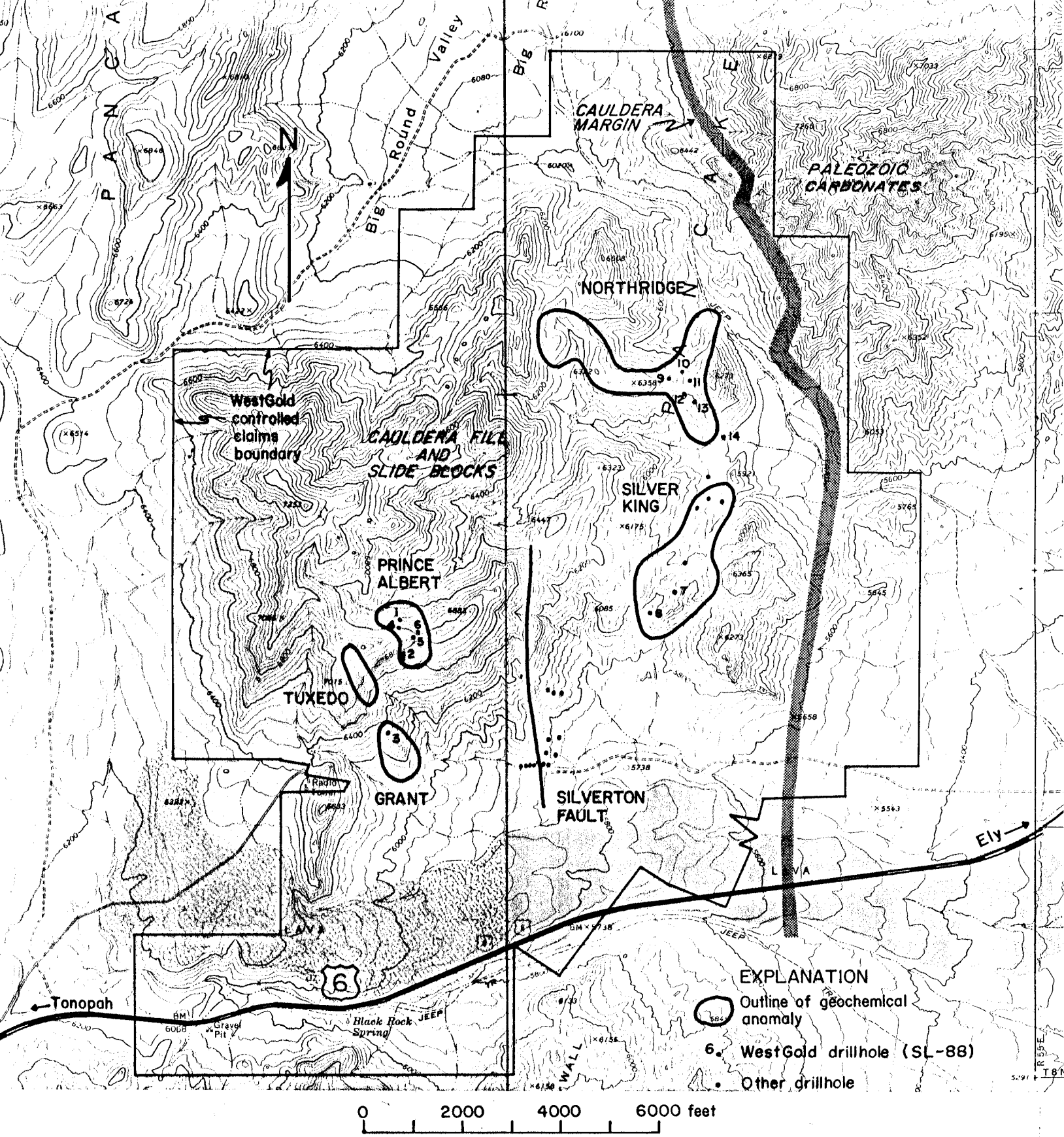


Figure 2.

SILVERTON PROJECT TARGET LOCATION MAP

DMH 12/88

LAND

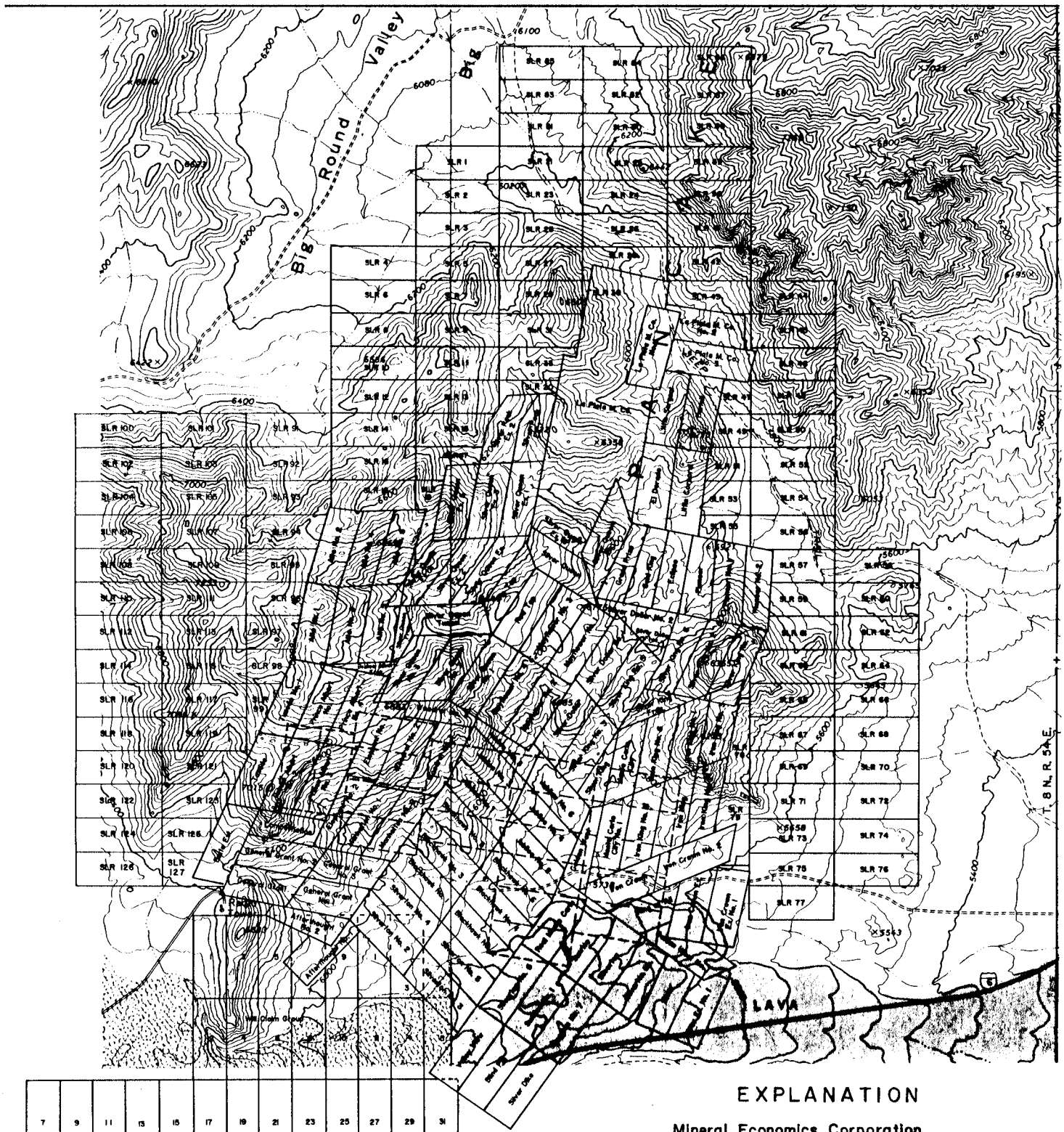
WestGold controls 276 unpatented lode claims, one unpatented placer claim and four unpatented millsite claims. Inspiration Gold, Inc. staked lode claims SLR #'s 1 through 29, 31, 33, and 41 through 90 in December 1987. Lode claims SLR #91 through 127 were staked by WestGold in August, 1988 (Figure 3). On April 30, 1988, 158 unpatented lode claims, one unpatented placer claim, and four unpatented mill site claims (Figure 3) were leased from Rex W. Huntley, Esq. of Reno, Nevada. Mr. Huntley is leasing the claims from Mineral Economics Corp. of Tuscon, Arizona.

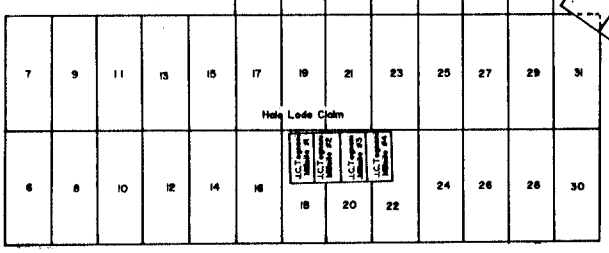
The main terms of the Huntley agreement are as follows:

1. WestGold paid an advanced royalty payment of $25,000 on the Effective Date (April 30, 1988).
2. Monthly payments of $1,000 are made to Mineral Economics Corp.
3. WestGold must make payments of $25,000 on the first and second anniversaries, $50,000 on the anniversary, $75,000 on the forth and fifty anniversaries, and $100,000 on the sixth and subsequent anniversaries unless the contract is terminated or production commences.
4. Royalties with commencement of production are $100,000 per year and 3.5% Net Smelter Returns plus 2.5% Net Smelter Returns on the SLR claims.

Details of the agreement are contained in the Huntley-WestGold agreement.

The Pony group of unpatented lode claims were staked in 1965 by Alf O. Westby and Madison D. Locke of Ely, Nevada. This block of 20 claims (Figure 3) overlap the Mineral Economics Corp. block of claims with the status of the claims unresolved. WestGold has no agreement with Westby and Locke at the present time.





EXPLANATION

Mineral Economics Corporation
Rex W. Huntley, Lessee

Alf O. Westby, Madison D. Locke
Pony Claims senior (?) to MEC claims

Inspiration Gold Incorporation

Western Gold Exploration and
Mining Company

N

1000 0 1000 2000 3000
feet

Figure 3. CLAIM MAP

EXPLORATION METHOD

Methods used during this program include mapping, geochemical sampling, drill site selection and preparation, and 5130 feet of truck-mounted reverse-circulation drilling in 14 holes. A summary of expenditures is shown on Table 1. The program was conducted from April to December, 1988.

Geologic mapping was done by Donald M. Hudson with assistance by Nathan M. Wiser. Mapping was done from May to October, 1988 at 1:2400 over most of the area with additional mapping at 1:4800 (Figure 4). All of the mapping was compiled at 1:4800. Six hundred and forty six rock chip samples were collected by D. M. Hudson and N. M. Wiser. All of the surface samples were analyzed by Geochemical Services Inc. of Rocklin, California, by ICP-AES for Ag, Au, As, Cu, Hg, Mo, Pb, Sb, Tl, An, Bi, Cd, Ga, Pd, Se and Te. The results are compiled on Plates 1E through 1N. Results of sampling are given in Appendix I. Also compiled with the data are 50 samples taken by D. M. Hudson in 1987, 63 samples taken by David R. Ernst in 1987, 11 samples taken by Richard F. Reid, Jr. in 1988, and 146 samples for Olympic mining Corp. (Thompson and Crooker, 1981; Tompson 1982). A geochemical survey of 2444 rock chip and soil samples collected for Olympic Mining Corp. (Tompson, 1980) was of limited use since no reference point for the 100 foot-spacing grid is known and no distinction is made between soil and rock chip samples.

The reverse-circulation drilling was conducted in two phases. The first phase, consisting of 2050 feet of drilling in 6 holes, was done from August 9 through 14 by Brown Drilling of Kingman, Arizona using a Chicago Pneumatic 670 drill rig. Lithologic logs were prepared by Nathan M. Wiser (holes 1-3) with assistance from Richard F. Reid and Donald M. Hudson (holes 3-6) with assistance by Nathan M. Wiser. The second phase of drilling, consisted of 3080 feet of drilling in 8 holes, was done from October 12 through 24 also using Brown Drilling. Lithologic logs were prepared by Donald M. Hudson with assistance from Leslie K. Duran. Samples were taken by the drillers helpers and consisted of five to ten pound samples. All samples were analyzed by Chemex Lab for gold by fie assay with an atomic absorption finish and for silver by aqua regia digestion with atomic absorption analysis. Drill logs and assay results are listed in Appendix II. Drill hole locations are plotted on Plates 1A, 1C, 1D, 2A, 2B, 2C, 3A, 3B, and 3C.

A list of contractors used is shown in Appendix V.

TABLE 1 - Summary of Expenditures

Prospecting	$ 1,405
Geology	55,355*
Geochemistry	9,425
Sampling	550
Drilling	52,300
Drafting	400*
Land acquisition	43,803
Surface and road work	23,070
Administration	4,355
TOTAL PROJECT TO 12/31/88	$190,663

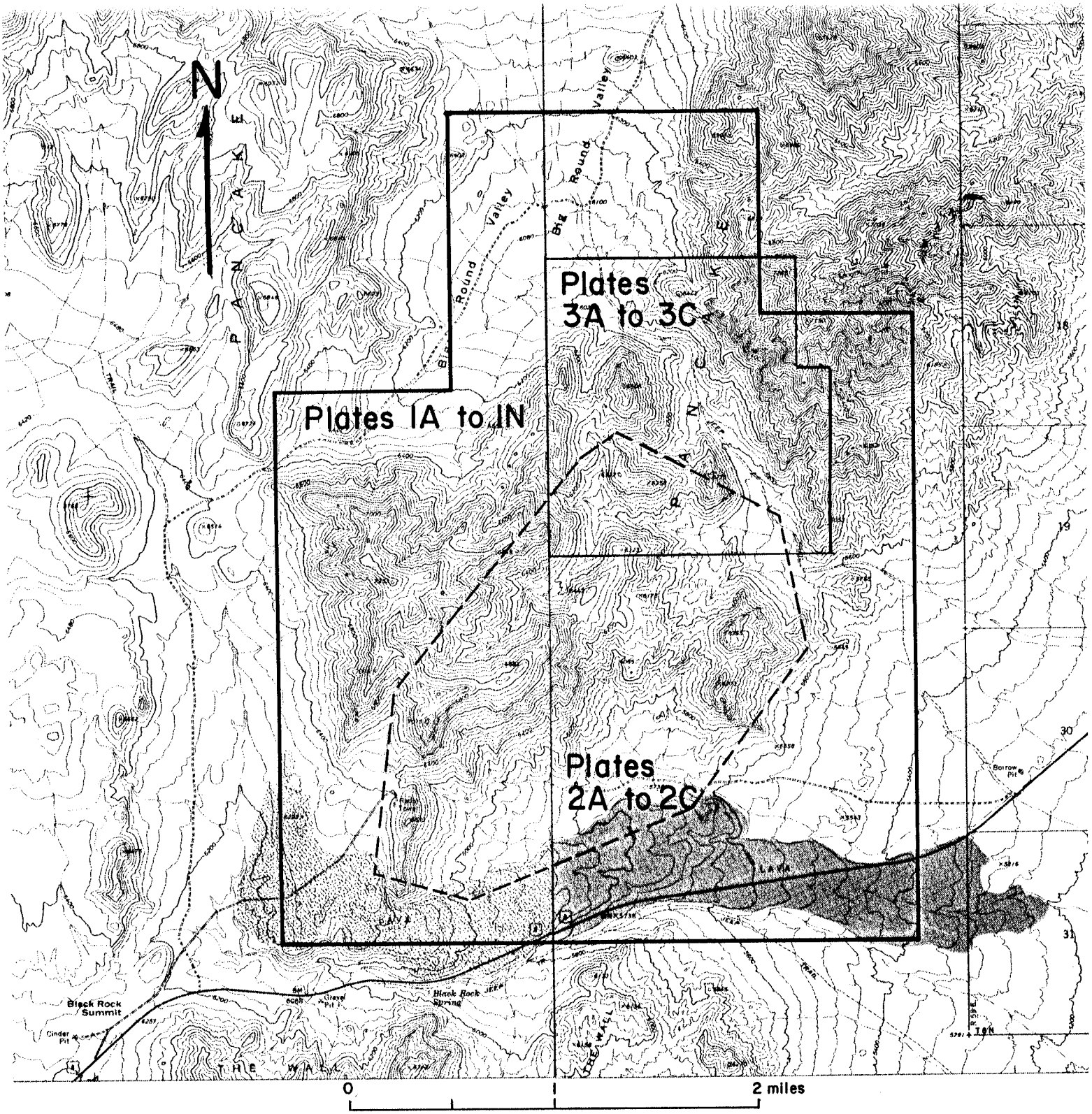


Figure 4. Index map to plates.

REGIONAL GEOLOGY

Silverton lies on the eastern rim of the Williams Ridge Cauldera (Figure 1) underlain by Lower Paleozoic miogeoclinal carbonates and quartzites. The Oligocene cauldera is the source of the Windows Butte Formation extra cauldera ash-flow tuffs and the intracauldera tuff of Williams Ridge and Morey Peak (Ekren and others, 1973). A thick sequence of Oligocene ash-flow tuffs were erupted from other vents in the region. A 25 mile long belt of Quaternary basaltic cinder cones and flows lies west and southwest of Silverton.

The property lies in the Basin and Range physiographic province. The structural grain tends to be along north northeasterly trending normal faults.

DISTRICT GEOLOGY

Stratigraphy

The oldest unit exposed in the Silverton area is the Ordovician Eureka Quartzite (Oe, Plate 1A). Some 200 feet of white-weathering, fine to medium grained, weakly laminated quartzite is exposed to the northeast part of the area.

Overlying the Eureka Quartzite is the Ordovician Ely Springs Dolomite (Oes, Plate 1A). About 300 feet of slope-forming dolomite occurs in the northeastern part of the property. The lower 200 feet is dark gray, fine to medium grained, laminated to thick bedded dolomite. The upper 100 feet is dark gray weathering to yellowish or greenish gray, slightly argillaceous, fine grained, laminated to medium bedded dolomite. Brachiopods occur throughout the formation.

Conformably overlying the Ely Springs Dolomite is the Silverian Laketown Dolomite. Perhaps 2000 feet of Laketown Dolomite is present on eastern edge of the mapped area (Sl, Plate 1A). The lower 300 feet of the unit consists of dark gray, laminated to thick bedded, medium grained, cliff forming dolomite. The upper part of the unit mapped is light to dark gray, often vuggy, laminated to medium bedded with indistinct bedding, partly vuggy, fine to medium grained dolomite. Discontinuous red-brown chert beds up to 3 feet thick occur sparingly in the upper unit.

Contained within a fault block with no known upper or lower contacts is the Devonian. Sevy Dolomite (Kleinhampl and Ziony, (1985) correlated the Sevy Dolomite with lower part of the Nevada Formation). Approximately 500 feet of Sevy Dolomite is exposed in the northeastern part of the area. The lower 400 feet consists of medium to lightly gray, thin to medium laminated, fine to medium grained, occasionally vuggy, unfossiliferous dolomite (Dsd, Plate 1A). Near faults, the dolomite tends to be brecciated (Dsdb, Plate 1A) with angular fragments to 3 inches access. Conformably overlying the dolomite is up to 100 feet of light brown, massive to laminated, medium grained, cliff-forming quartz sandstone (Dss, Plate 1A). Interbedded medium-grained clastic dolomite makes of 5 to 25% of the sandstone unit with the upper 50 feet containing up to 75% slightly sandy clastic dolomite interbeds. Near faults, the sandstone unit is brecciated (Dssb, Plate 1A) with clasts up to 5 inches across.

Occurring as slide blocks (Figure 5) within the tuff of Williams Ridge and Morey Peak is what will be referred to in this report as Devonia dolomite. The formation could be the Devonian Nevada Formation but due to the highly broken up

nature of the unit, precise correlation is uncertain and other formations could occur as slide blocks. No thickness of the formation can be determined since the formation is so disjointed. The dolomite (Dd, Plate 1A) is commonly dark to medium gray, except where bleached light gray to white. The dolomite is typically fine to medium grained and thinly laminated except where recrystallized to medium to coarse grained dolomite with less distinct laminations. Common throughout the dolomite are distinct massive beds 1 to 10 feet thick of Amphipora ("spaghetti" coral). A few brachipods were found scattered through the formation. Gastropods and algal heads occur in massive beds locally with localities noted on Plate 2A. The dolomite is brecciated (Ddb, Plate 1A) throughout much of the area. Typically fragments are angular recrystallized dolomite 1 to 3" across in a dolomite rock flour matrix (Figure 6). The breccias show strong rotation of fragments with stratigraphic mixing of several feet indicated by coral-bearing clasts mixed with noncoral-bearing clasts and sandstone fragments mixed with dolomite fragments several feet above or below sandstone beds. Breccias tend to occur proximally with thick tuff "sills" suggesting brecciation by explosive boiling after the slide block had come to rest in the cauldera. Scattered quartzite and sandstone beds (Dq, Plate 1A) up to 30 feet thick occur interbedded with the dolomite. Most are lightly brown to white, medium-grained quartz sandstone with quartz cement while a few have dolomite and/or calcite cement. The beds are finely laminated but often bedding is indistinct. In a few slide blocks, quartz and dolomite are so brecciated and mixed together, they are mapped as one unit (Ddqb, Plate 1A).

The major volcanic unit in the area is the Oligocene tuff of Williams Ridge and Morey Peak (Twmt, Plate 1A). The tuff was erupted into the Williams Ridge cauldea (Figure 1). The base of the tuff is not exposed but at least 2000 feet is exposed in the Silverton area. The partially welded ash-flow tuff is argillized throughout the Silverton area, with rare exceptions. Quinlivan and others (1974) report the composition of the tuff as quartz latitic to rhyolitic ash-flow tuff with 1 to 5 mm phenocrysts comprising 25 to 55% of the rock. Phenocryst abundances include 42 to 63% plagioclase, 13 to 30% quartz, 2 to 29% alkali feldspar, 3 to 12% biotite, 1-7% hornblende, trace to 2% orthopyroxe, and a trace of clinopyroxene. Usually the argillization obscures most of the textures of the rock with quartz phenocrysts well preserved and only pseudomorphs of other phenocrysts. Partially collapsed pumice fragments are commonly 2 to 10 cm across and locally up to 25 cm. Compaction foilation is usually well preserved, even in highly argillized tuff. Compaction foliation normally parallels the contact with adjacent slide blocks. The Twmt consists of several compound cooling units. The upper most

Figure 5 - Photograph of a slide block of Devonian Dolomite (gray cliffy area in center of picture). Argillized tuff of Williams Ridge and Morey Peak above and below. Dolomite above drilling is silicified and is Tuxedo Zone. Pad for SL-88-2 just behind dozer.

Figure 6 - Photograph of typical brecciated dolomite. From Northridge zone. Note quarter for scale.

unit has conspicuously smaller pumice fragments and quartz phenocrysts. A few exposures of cross-bedded surge at the base of the upper unit occurs on the ridge northwest of hill 7253 in the northwest part of the area. Several places in the western part of the property have tuff with quartz phenocrysts up to 1 cm in diameter. No attempt was made to map individual flows since alteration obscures much of the rock texture. In the north eastern part of the property, altered dikes (Twmi, Plate 1A) equivalent to the Twmt intrude faults forming the rim of the Williams Ridge Cauldera. The dike rocks appear very similar in texture and composition to the ash-flow tuff but lack pumice fragments.

Overlying the tuff of Williams Ridge and Morey Peak are Oligocent tuffaceous sediments (Ts_1, Plate 1A). The altered sediments are 0 to 50 feet thick, finely laminated siltstone and fine-grained sandstone. The sediments overlie the Laketown Dolomite on the eastern edge of the property and appear to lap outside the caldera rim. In part interfingering with the tuffaceous sediments are coarse dolomite conglomerates (Tc, Plate 1A). Up to 30 feet of poorly bedded conglomerate comprised mostly of subrounded Devonian(?) dolomite clasts up to 6 feet across occur in a fragment supported matrix of tuffaceous sand and silt. While most of the conglomerate occurs within the cauldera, probably in close proximity of the caldera rim, a small exposure on the eastern edge of the property occurs outside the cauldera. The sediments may have been deposited in and derived from a trough left by the slide blocks east of the cauldera rim.

Overlying the Tertiary sediments is up to 150 feet of lithic tuff breccia (Tlt, Plate 1A). The lower portion of the unit contains up to 60% lithics of Paleozoic sediments, typically 2 to 20 cm across. Higher in the unit the Paleozoic lithics gradationally decrease to about 10% and autoliths of tuff up to 1 meter across increase to 50% of the unit. The partially welded tuff contains a few percent flatten pumice fragments up to 1 cm long and about 60% phenocrysts less than 2 mm across. Phenocryst abundances are 20 to 60% quartz, 30 to 70% feldspar, 1-3% biotite and a trace of 2% hornblende. The lithic tuff breccia overlaps the cauldera rim in the southeast part of the district.

Disconformably overlying the lithic tuff breccia is up to 50 feet of white, thinly laminated tuffaceous siltstone to medium grained sandstone (Ts_2, Plate 1A). Overlying this is the Oligocene tuff of Black Rock Summit (Tbr, Plate 1A). Up to 700 feet of argillized partly welded rhyodactie ash-flow tuff contains 15 to 25% phenocrysts. Quinlivan and others (1974) report phencryst abundances as 51 to 70% plagioclase, 13 to

25% quartz, 7 to 11% biotite, 1 to 8% alkali feldspar, 1 to 3% hornblende, 0-2% orthopyroxene, and a trace of clinopyroxene. Only the lower cooling unit is mapped as Tbr.

In Big Round Valley are several undiffertiateded unaltered Oligocene tuffs (Tt, Plate 1A). According to Quinlivan and others (1974), these include the upper cooling unit of the tuff of Black Rock Summit, the tuff of Big Round Valley, and the Monotony Tuff.

The youngest volcanic unit is Quaternary basalt (Qb, Plate 1A). What is probably a single flow of porphyritic basalt was erupted from the Lunar Crater Volcanic Field and flowed eastward some 5 miles into Railroad Valley along what is now U.S. 6. A small area of wind blown black basaltic ash (Qba, Plate 1A) accumulated west of the Silverton shaft.

Quaternary alluvium (Qal, Plate 1A) is generally coarse grained sand to bouldery gravel derived from the immediate area. While talus is common on many steep slopes, only where the talus completely obscures the bedrock is talus (Qt, Plate 1A) mapped as a unit.

Structure

The most prominent structural features are related to the Williams Ridge caldera. In the Silverton area, the cauldera appears to be two nested caulderas. The first collapse resulted in a normal fault, injected by a dike of Twmi, along the valley with the jeep trail in north east part of the area (Plate 1A). The fault separating he Sevy Dolomite from the rocks to the east was probably also formed about the same time (Figure 7). The second phase of collapse was mainly on the east and south edges of Big Round Valley, also intruded by a ring dike of Twmi (Plate 1A). Some of this ring dike was injected into the fault separating the Sevy Dolomite from the old rocks to the east.

Slide blocks of Devonian dolomite (Figure 8) slid into the caldera from the east, possibly leaving a trough filled later by the Tertiary sediments and the lithic tuff breccia. Ashflow tuffs were injected along low angle slide planes forming numerous "sills" of tuff. There is a strong tendency for tuff to have been injected from the west and the "sills" thinning to the east. A number of tuff "sills" pinch out the east so the contacts between slide blocks become low-angle faults. Only a few of the low-angle faults are shown on Plate 1A, since in most cases where the tuff "sills" pinch out, the dolomite is so highly brecciated a fault plane cannot be discerned. While some of the slide blocks, usually the thicker ones, maintain a coherent stratigraphy and very little

Figure 7 - Photograph of the Williams Ridge Cauldera rim. Looking northeast from SL-88-10. Ring dike in valley, cauldera edge fault prominently show on side of hill. Overlay shows geology with symbols same as Plate 1A.

Plate 8 - Photograph of slide blocks. Looking east with Prince Albert Zone (SL-88-1) on right edge of picture. Boldly outcropping Devonian dolomite (Dd) is interleaved with tuff of Williams Ridge and Morey Peak (Twmt).

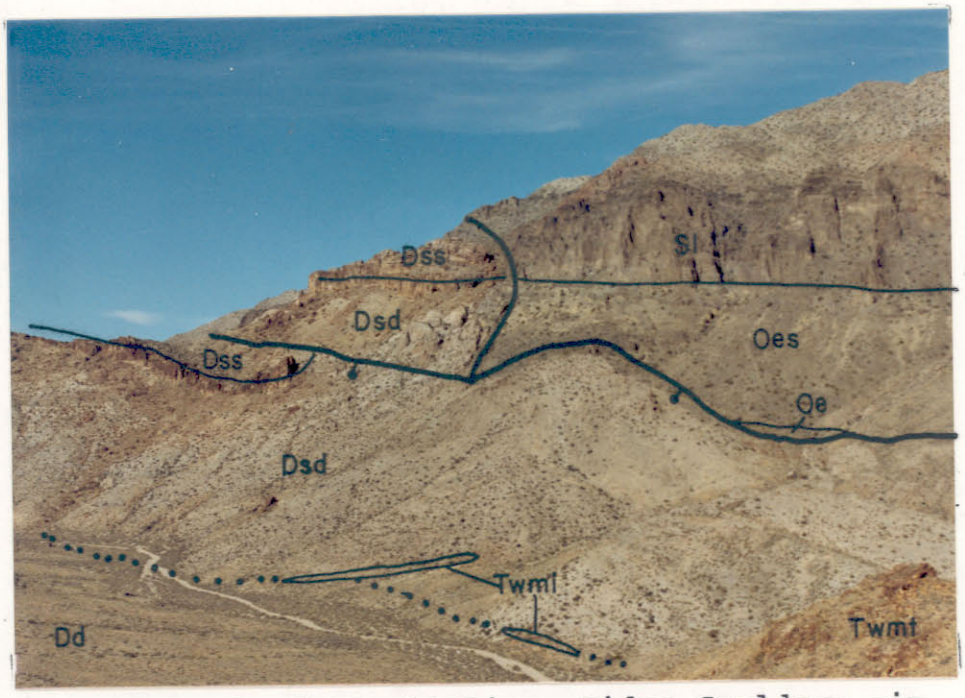


Figure 7 - Photograph of the Williams Ridge Cauldera rim. Looking northeast from SL-88-10. Ring dike in valley, cauldera edge fault prominently show on side of hill. Overlay shows geology with symbols same as Plate 1A.

Plate 8 - Photograph of slide blocks. Looking east with Prince Albert Zone (SL-88-1) on right edge of picture. Boldly outcropping Devonian dolomite (Dd) is interleaved with tuff of Williams Ridge and Morey Peak (Twmt).

hypogene since the amount of kaolinite changes little from oxidized to unoxidized altered tuff in nearby samples from the same drill hole. Alunite is present in a few samples and is also probably hypogene. A few percent calcite is also common but is also often absent in the argillized tuff. Unoxidized argillized tuff contains 2 to 10% disseminated pyrite. A few areas of chloritized tuff occur in the area (Plate 1C). The matrix of the tuff is chloritized with partial argillization of feldspars and usually minor calcite. Strong silicification is mainly restricted to the lithic tuff breccia. Lithic fragments are silicified as well as the tuff matrix write up to 5% clay. Silicification occurs in other volcanic units but is gradtionally variable with argillization the most dominant alteration.

Silicification is the most widely spread alteration effect in the dolomite (Plate 1C). Goethite and, to a lesser extent, hematite stained jasperoid occurs in brecciated dolomite. The silica is typically very fine grained to chalcedonic. Millimeter sizes leached-out cavities occur frequently in the jasperoids. The upper surface of dolomite slide blocks adjacent to relatively thick tuff "sills" (greater than 25 feet) appears to have been the preferred site of silicification. Complete silicification tended to occur if the slide block was fairly small (Figure 9). In the larger slide blocks, jasperoids tend to form a horizon up to 30 feet thick adjacent to overlying tuff. Thus when eroded, the jasperoids tend to form scabs on dip slopes. There are many small slide blocks and upper surfaces of slide blocks that are unsilicified and the reason for localization of jasperoid is not understood. Adjacent to and usually lying within 10 to 50 feet below jasperoids are silica veins filling fractures in the dolomite. The dark brown to tannish chalcedonic veins are typically less 0.5 mm wide, although a few reach 3 mm in width, and form an irregular network. Vein density varies from a few percent to 20% of the rock volume.

Hematization of the dolomite occurs in a few areas (Plate 1C). The dolomite takes on a purplish color from finely disseminated hematite. Hematite comprises up to 3% of the dolomite with no other visible alteration except some possible weak argillization.

Argillization was not recognized in any of the surface exposures of dolomite but was encountered in several drill holes (Plate 4A and 4C). The dolomite is partially to completely altered to quartz, illite-montmorillonite, kaolinite, and rarely alunite. The argillized dolomite tends to occur in proximity or interspersed with jasperoid. In drill hole SL-88-12, some of the argillized dolomite is also carbonaceous.

Figure 9 - Photograph of a thin jasperoid between thick tuff "sills". Dark brown jasperoid left (west) of drill rig dips 30° east under argillized Twmt. Thick "sill" of Twmt underlies jasperoid. Left edge of picture is brecciated dolomite with a few jasperoids. Drill rig drilling SL-88-12 in Northridge zone.

Figure 10 - Photograph of network quartz veining in Prince Albert zone. Note cavities where dolomite was leached out. Quarter for scale.

Network quartz veining occurs in several areas in brecciated dolomite (Plate 1C). The network veining appears to have formed in several stages beginning with silica veins in the fractures of brecciated dolomite. The dolomite clasts were then dissolved and quartz formed overgrowths on the silica veins. The over growth quartz is typically white with crystals less than 1 mm. The earliest stage quartz tends to be finer grained than later stage quartz and crystals of the latest stage are up to 1 cm long. The dissolved dolomite leaves numerous angular cavities a few millimeters to 20 cm across (Figure 10). Contacts of network quartz-veined rock are very sharp with the adjoining unreplaced dolomite although the thin silica veins usually persist across the contacts. The network quartz veined zones tend to be near vertical and dike-like or irregular pods a few inches to 20 feet across. The areas of network quartz veining shown on Plate 1C indicate the regions where veining occurs and not necessarily specific zones.

Quartz veins also occur in the tuffs but these tend to be very thin and persist along strike for tens to several hundred feet (Plate 1C). The veins are typically less than 1 cm wide of very fine grained to chalcedonic white quartz. Several veins in the Silver King zone are up to 6 inches wide and often contain 10 to 80% stibnite. The veins in the Silver King zone form a somewhat arcuate pattern. On the south end of the zone, veins strike about N30E changing to about N50E in the middle of the zone and to about N70E on the northern end. Individual veins tend to be concave to the northwest and usually dip northwesterly although a few dip southeasterly (Plate 1C). Veins in the tuff in the Northridge zone typically strike N70E. This is also the predominant orientation of network quarts veins in the dolomites in the Northridge zone. The scattered very thin veins in the northwest part of the Silverton area generally strike about east-west (Plate 1C). A weak stockwork of white quartz veins occurs in tuff along the Silverton Fault. These veins are usually less than 1 cm wide and make up 1 to 10% of the rock volume in a zone 5 to 30 feet wide.

Dolomite and rarely calcite veins occur in the dolomite. The veins are usually very irregular, up to 5 mm wide, and make up to 10% of the rock. The dolomite veins have a tendency to occur in the same areas as the silica veins and as a halo around silica-veined dolomite. The dolomite veins are cut by the silica veins and appear to be the earliest phase of veining.

Stibnite occurs in a number of places at Silverton. Stibnite-quartz veins up to 8 inches wide occur in the Silver King zone

(Plate 1C). The stibnite occurs as coarse aggregates with crystals up to 5 cm long. Stibnite or stibiconite is common in the Prince Albert Zone. This stibnite, usually partially to completely altered to stibiconite, occurs as crystal aggregates in the voids of the network quartz veining and as rosettes up to 8 inches in diameter along fractures in jasperoid. There is a few occurrences of stibnite or stibiconite in the the Northridge zone as veins in the tuff or in jasperoid (Plate 1C).

Barite occurs several places in the Silverton area. The most prominent is in the lithic tuff breccia near hill 6253 southwest of the Silver King zone (Plate 1C). Barite crystals up to 2 cm fill fractures in silicified lithic tuff breccia forming up to 20% of the rock. The adjoining wall rock is usually strongly limonitic. In the northeastern part of this zone, the barite is more scattered, occurring as isolated fracture fillings. The other occurrences of barite on Plate 1C represent isolated crystals up to 5 cm long found in float. No outcrop sources of the barite could be found.

Surface Geochemistry

A total of 916 rock chip samples were used to define geochemical characteristics of the Silverton area. Of these, 657 were analyzed for Ag, Au, As, Cu, Hg, Mo, Pb, Sb, Tl, Zn, Bi, Cd, Ga, Pb, Se and Te. Another 113 samples were analyzed for Au, Ag, Sb, As and Hg only. Rock chip samples reported by Olympic Mining Corp had only Au and Ag data (Tompson and Crooker, 1981) or Au, Ag, Sb and Hg (Tompson, 1982). Sample density is variable with some areas sampled on a 200 foot center grid while other areas were sampled on a reconnaissance basis. Results of surface sampling are given in Appendix I and plotted on Plates 1D through 1N. Generalized maps of geochemical anomalies are shown on Figure 11.

Results of the geochemical sampling indicate the following:

1. Anomalous gold (Figure 11B) occurs primarily in jasperoids and strongly network quartz veined dolomite. Anomalous gold occurs in stibnite-quartz veins in the tuffs as well as strongly silicified tuff associated with barite.

2. Silver is very weakly anomalous in the Northridge and Tuxedo zones (Figure 11C). The strongest anomalies are along the Silverton Fault, the Prince Albert zone and in isolated pockets a few feet wide of network quartz veining between the Prince Albert zone and the Silverton Fault. The latter are not anomalous in gold.

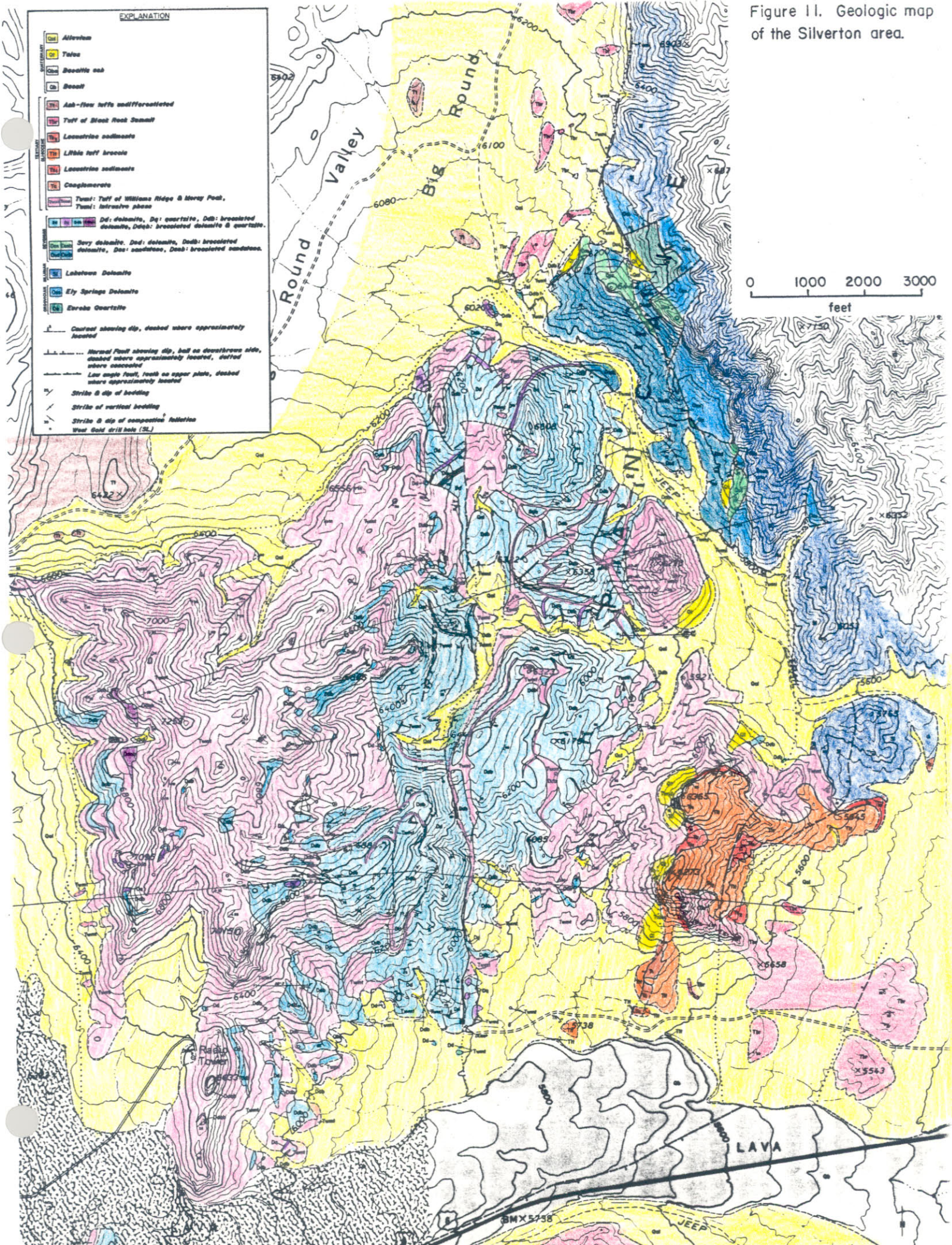


Figure 11. Geologic map of the Silverton area.

Figure 11F Mo, Pb and Zn geochemistry overlay

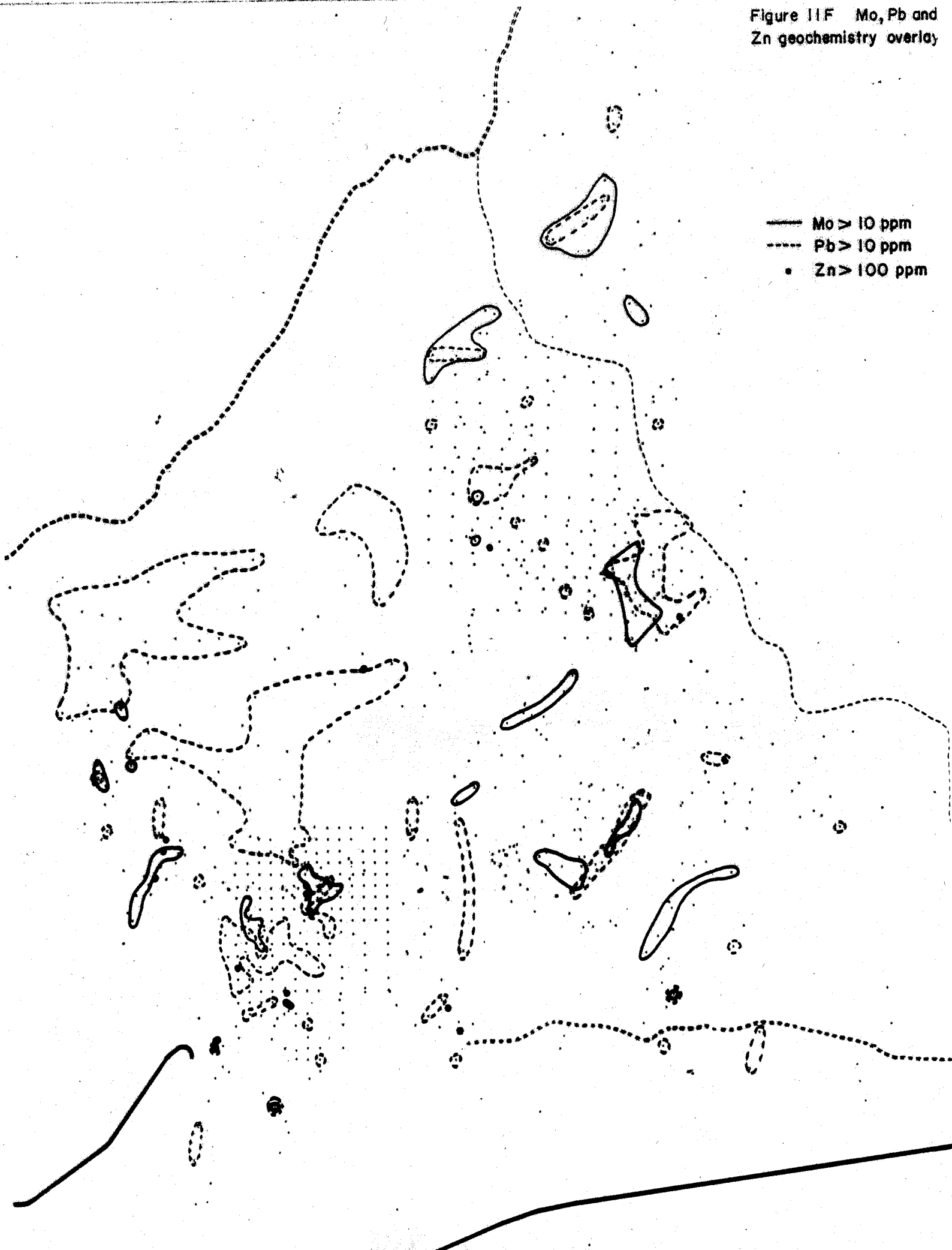


Figure IIE. Se and Tl geochemistry overlay

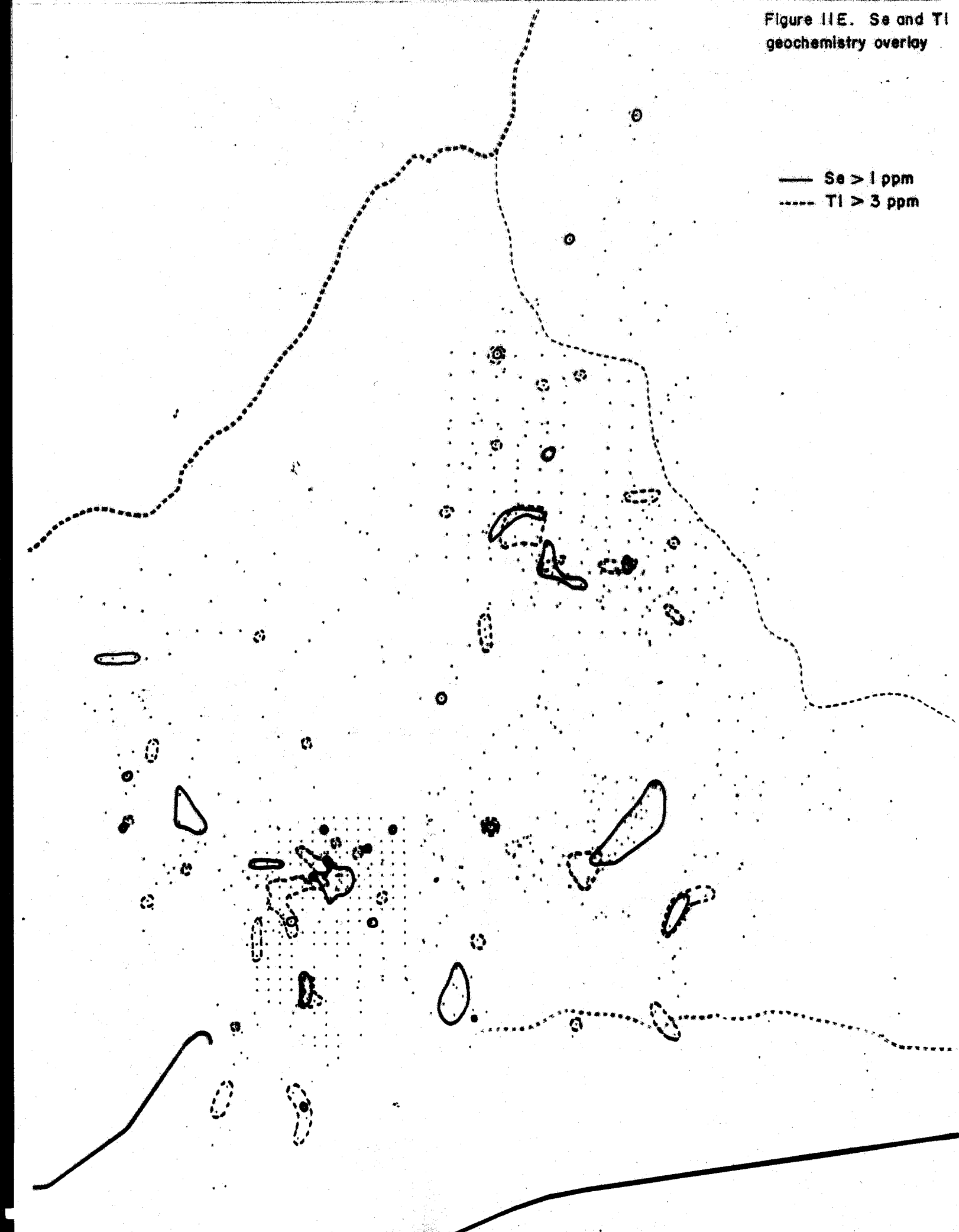


Figure IID. As and Sb geochemistry overlay

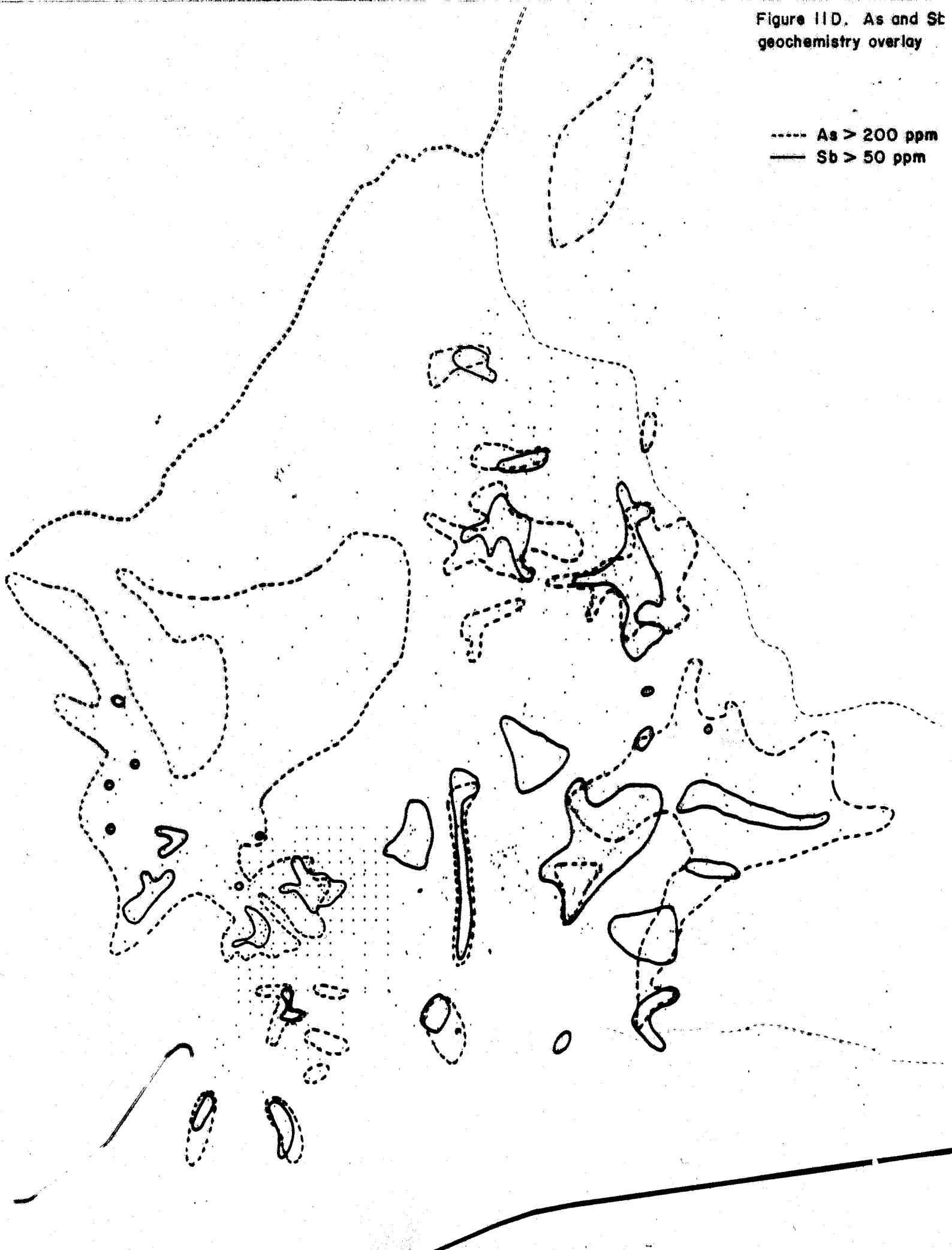


Figure 11C. Ag and Hg geochemistry overlay

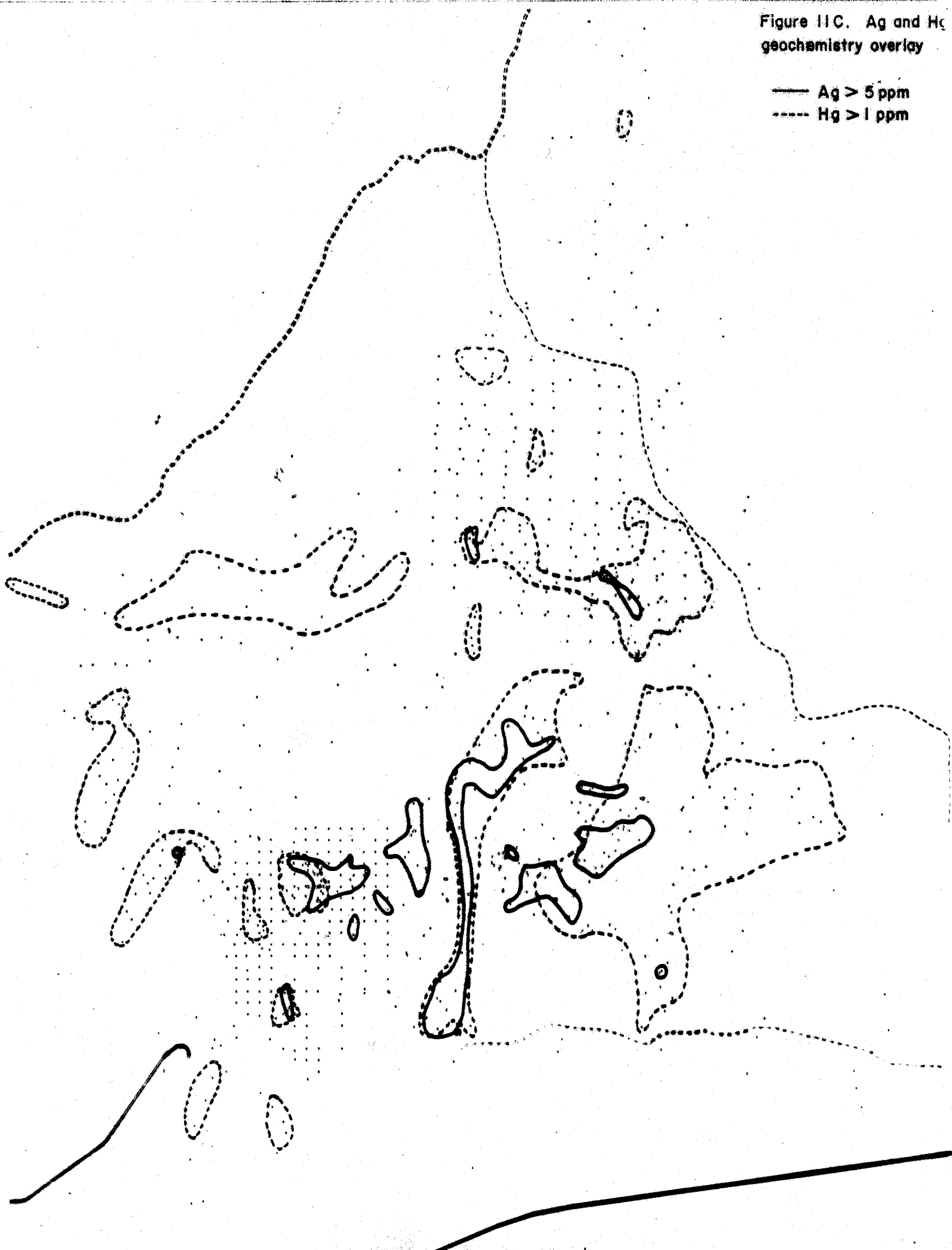


Figure 11B.
Gold geochemistry overlay
—— Au > 100 ppb

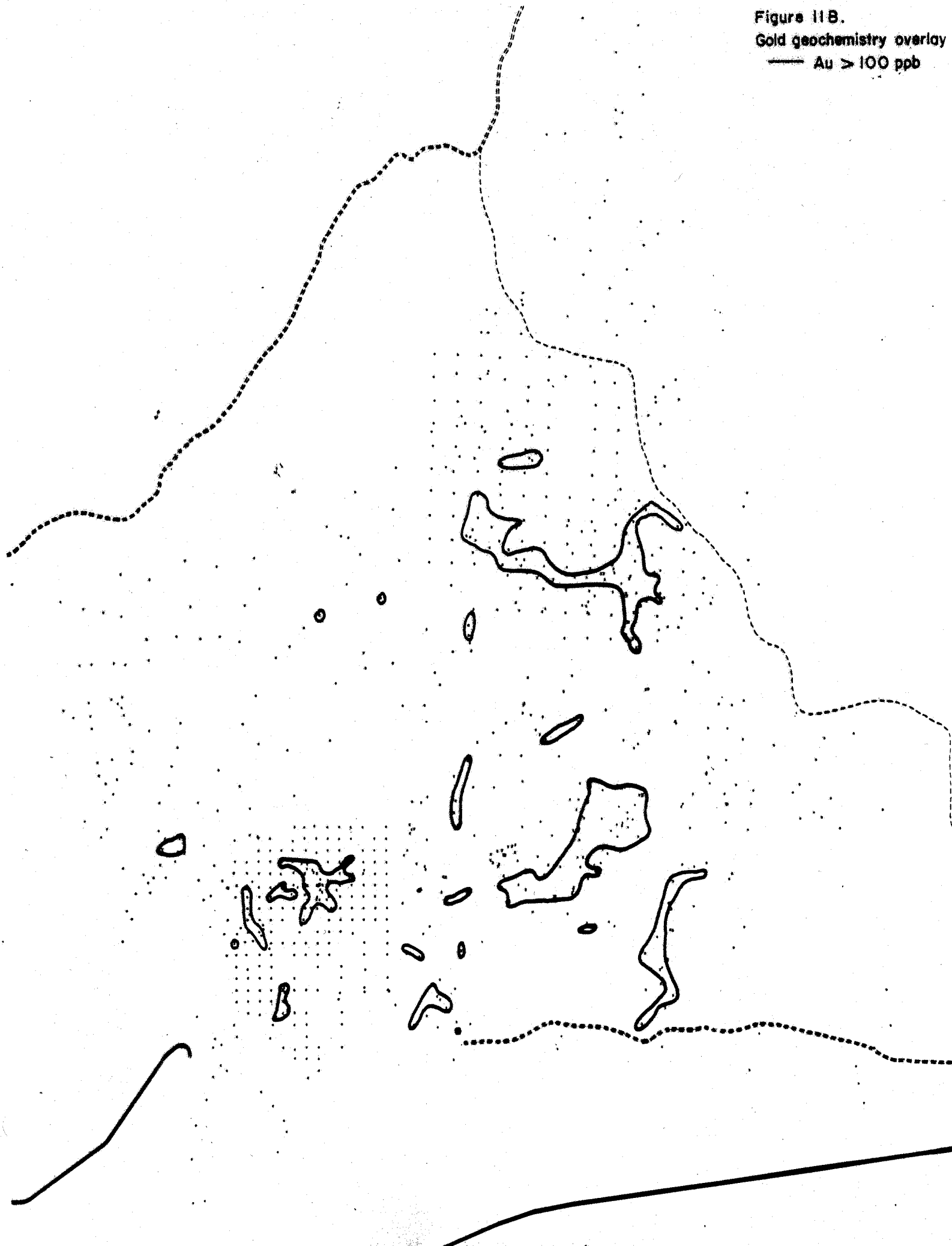
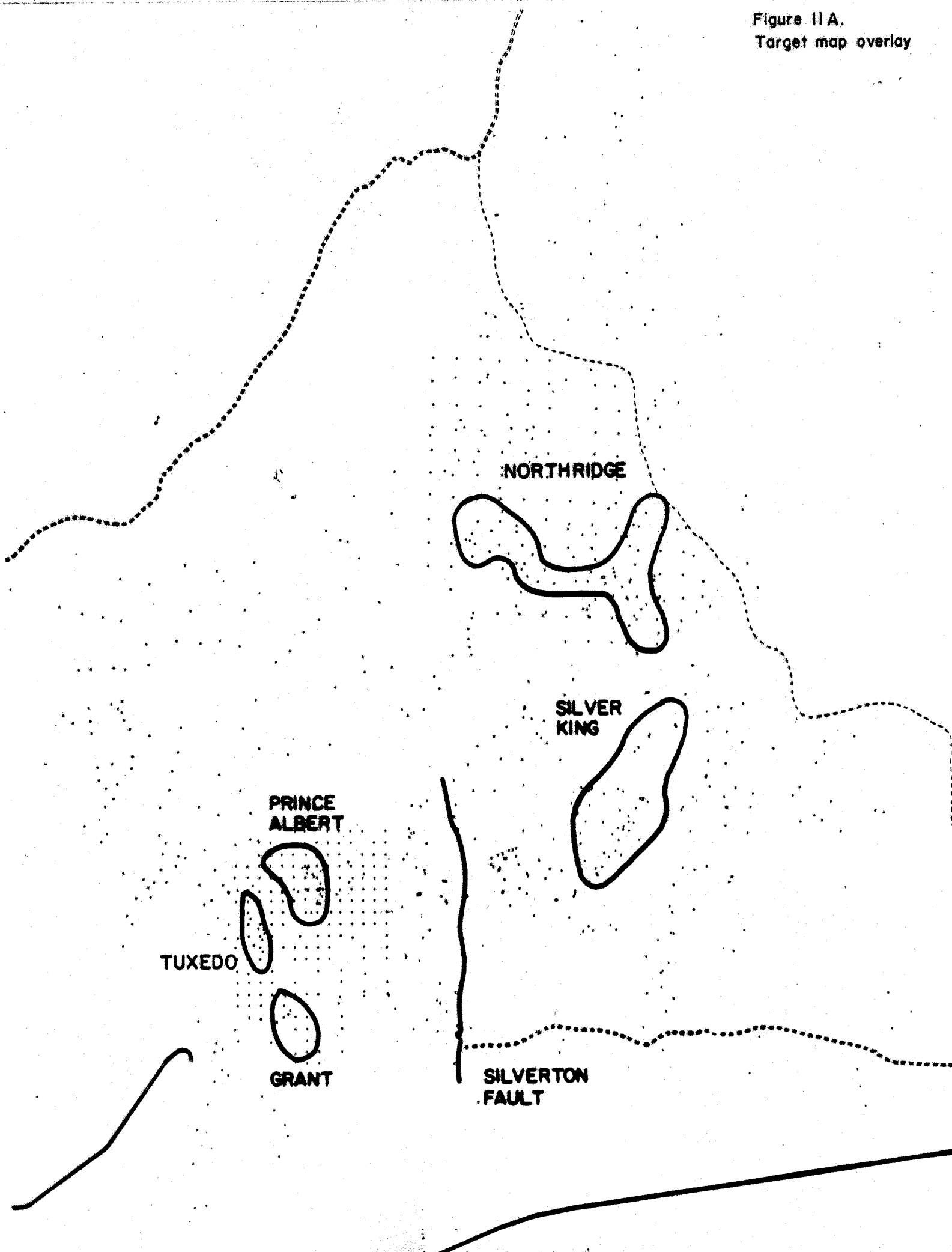


Figure II A.
Target map overlay



3. Mercury (Figure 11C) shows very good correlation with gold, particularly in the jasperoids. Mercury shows a broader halo in the volcanic units, possibly reflecting a higher paleoelevation in the hydrothermal system.

4. Arsenic (Figure 11D) correlates fairly well with elevated gold values but shows a similar distribution with mercury in the volcanic units.

5. Antimony (Figure 11D) shows very good correlation with gold and silver and appears to be a good indicator element. The very high values of antimony (>5000 ppm) are all somewhat high-graded samples, particularly in the Silver King zone where stibnite-quartz veins were preferentially sampled.

6. Selenium (Figure 11E) rarely occurs at concentrations over a few ppm, but does show a fairly good correlation with gold and silver.

7. Thallium (Figure 11E) rarely occurs at concentrations over a few ppm and tends to have scattered anomalies. There a fairly good correlation with gold and rather poor with silver.

8. The areas of higher gold concentrations also tend to be higher in molybdenum (Figure 11F), particularly in jasperoids.

9. Lead (Figure 11F) does not show very much variation but tends to be higher in the volcanic units.

10. Zinc (Figure 11F) appears to show no correlation with precious metals. A few samples contained several thousand ppm zinc in gossanous material but these high values appear to be isolated and perhaps only related to strong pyritization.

11. The tuff of Black Rock Summit (Tbr) lacks anomalous concentrations of most elements, particularly in the southeast part of the area. In Big Round Valley, the Tbr does show some weakly anomalous As, Se, Hg, and Pb. The alteration event of the Tbr is therefore probably an unrelated event to the Silverton hydrothermal event.

12. Copper, bismuth, cadmium, gallium, palladium, and tellurium values given in Appendix I are either too low or lack much variation to be useful as indictor elements although weak anomalies do occur.

2. The intersection of the relatively gold-rich quartz stibnite veins in the Silver King zone with the jasperoids appear to have not produced appreciable gold in the jasperoids.

3. Alteration of the dolomites stops rather abruptly below tuff "sills" greater than 10 feet thick in the Silver King and Northridge zones. Relatively thick tuff "sills" appear to be important in localizing mineralization in slide blocks, perhaps because of higher permeability in the tuffs during hydrothermal activity.

4. Argillization of the dolomites was not anticipated. The argillized dolomites carry relatively low gold values and do not appear to be attractive targets. In the Northridge zone, the equivalent slide block horizon of argillized dolomite projected to surface outcrop does not appear to be argillized but does have a few scattered jasperoids with more than 1 ppm Au. Jasperoids associated with argillized dolomite are apparently rather small (shown diagrammatically on Plate 4C).

5. No gold could be panned out of any of the drill holes.

6. Check assays were done on several of the drill holes. Results presented in Table 3 show fairly good reproducibility of fire assay and atomic absorption techniques for gold and silver. Results presented in Table 4 show good reproducibility of ICP-AES with fire assay and atomic absorption techniques. This reliability is also important since most of the surface samples were analyzed by ICP-AES.

Table 3 - Summary of Check Analyses

		Au				Ag		
		Chemex[1] ppb	GSI[1] opt	(ppb)[2]	NBMG[3] ppb	Chemex[4] ppm	GSI[4] ppm	NBMG[4] ppm
SL-88-1	25-30	365	0.010	(343)	400	11.4	8.7	12.4
SL-88-1	40-45	450	0.013	(446)	450	1.7	1.3	3.1
SL-88-1	50-55	1230	0.043	(1474)	1280	3.9	3.6	4.4
SL-88-1	65-70	1240	0.043	(1474)	1220	3.4	3.0	3.6
SL-88-1	80-85	580	0.018	(617)	630	2.6	2.4	4.7
SL-88-1	300-305	190	0.006	(206)	180	1.1	0.9	4.1
SL-88-2	30-35	335	0.008	(274)	270	1.0	0.8	1.4
SL-88-2	80-85	825	0.028	(960)	910	2.7	2.6	3.2
SL-88-2	105-110	480	0.015	(514)	550	1.3	1.1	1.8
SL-88-3	205-210	560	0.015	(514)	530	1.7	1.8	3.3
SL-88-3	245-250	45	0.001	(34)	40	25.3	22.1	28.4
SL-88-4	35-40	125			150	0.8		6.9
SL-88-4	55-60	<5			330	<0.2		4.1
SL-88-5	35-40	430	0.014	(480)		4.2	4.6	
SL-88-5	55-60	300	0.009	(309)		1.1	1.1	
SL-88-5	90-95	50			50	0.2		2.0
SL-88-6	15-20	555	0.016	(549)	530	14.5	14.1	14.1
SL-88-6	30-35	565	0.017	(583)	520	46.6	63.0	60.6
SL-88-6	40-45	585	0.014	(480)	520	26.9	38.3	28.6

1. 10 gram digestion, fire assay, AA finish
2. Calculated
3. 1 ton fire assay, AA finish
4. Atomic absorbtion

Table 4 - Summary of check analyses, comparison of ICP-AES with FA, AA

Sample ID	Ag GSI ICP-AES ppm	Ag Chemex AA ppm	Au GSI ICP-AES ppm	Au Chemex FA, AA ppb
SL-88-1 15-20	22.5	22.7	.450	445
SL-88-1 35-40	6.83	7.3	.778	800
SL-88-1 45-50	.930	.9	.054	65
SL-88-1 55-60	.572	.5	.065	70
SL-88-1 70-75	2.52	2.7	.788	875
SL-88-1 75-80	2.27	2.4	.434	465
SL-88-1 85-90	1.12	1.3	.179	155
SL-88-1 120-125	.063	-.2	.002	-5
SL-88-1 145-150	.03	-.2	.001	-5
SL-88-1 195-200	.032	-.2	<.0005	-5
SL-88-1 225-230	.054	-.2	<.0005	10
SL-88-1 265-270	1.80	1.8	.087	85
SL-88-1 295-300	.286	.2	.041	50
SL-88-1 305-310	.591	.6	.082	90
SL-88-1 315-320	.863	.9	.224	230
SL-88-1 345-350	.068	-.2	.004	15
SL-88-1 395-400	.061	-.2	.006	25
SL-88-3 25-30	.382	.4	.034	70
SL-88-3 50-55	.054	.4	.002	-5
SL-88-3 75-80	.047	-.2	.001	-5
SL-88-3 100-105	.056	-.2	<.0005	-5
SL-88-3 125-130	.138	-.2	.001	-5
SL-88-3 150-155	.949	.9	.014	10
SL-88-3 175-180	.401	.5	.064	70
SL-88-3 200-205	1.42	1.4	.257	245
SL-88-3 220-225	8.49	9.3	.143	130
SL-88-3 265-270	2.71	3.1	.163	165
SL-88-3 295-300	.123	.2	.001	5
SL-88-3 320-325	.098	-.2	<.0005	-5
SL-88-3 345-350	.325	.3	.003	20
SL-88-3 370-375	.048	-.2	.001	20
SL-88-5 10-15	1.73	1.5	.150	170
SL-88-5 20-25	2.75	2.6	.137	155
SL-88-5 40-45	4.03	4.3	.372	385
SL-88-5 50-55	1.01	1.0	.308	300
SL-88-5 65-70	1.52	1.5	.309	300
SL-88-5 85-90	.669	.4	.068	60
SL-88-5 100-105	.031	-.2	.004	-5
SL-88-5 125-130	.140	-.2	.009	10
SL-88-5 150-155	.071	-.2	.005	-5
SL-88-5 170-175	.166	-.2	.016	20
SL-88-5 195-200	.260	-.2	.03	35
SL-88-5 220-225	.730	.4	.254	180
SL-88-5 245-250	.109	-.2	.004	-5
SL-88-5 270-275	.104	-.2	.001	-5
SL-88-5 295-300	.188	-.2	.001	-5
SL-88-5 320-325	.017	-.2	.004	-5
SL-88-6 25-30	13.9	12.2	.617	590
SL-88-6 35-40	27.0	19.8	.351	370
SL-88-6 45-50	.312	.4	.019	20
SL-88-6 70-75	.199	.7	.024	60
SL-88-6 95-100	.03	-.2	.001	10
SL-88-6 120-125	<.015	-.2	.001	5
SL-88-6 140-145	.124	-.2	.004	5
SL-88-6 145-150	.066	-.2	.003	-5
SL-88-6 160-165	<.015	-.2	.004	-5

DISCUSSION

The Silverton district is a large Oligocene hydrothermal system with local concentrations of gold and silver. Since alteration and geochemical signatures persist into the lithic tuff breccia, the hydrothermal system responsible for mineralization at Silverton occurred after collapse of the Williams Ridge Cauldera and after the eruption of the lithic tuff breccia. Mineralization occurred prior to the deposition of the tuff of Black Rock Summit since the latter has a very different geochemical signature and overlies previously baritized lithic tuff breccia. Thus there is a later hydrothermal, apparently unmineralized,system effecting the lower cooling unit of the tuff of Black Rock Summit.

Mineralization at Silverton may have occurred in closely spaced pulses, one silver rich and gold poor along the Silverton Fault, the other more gold-rich and relatively silver poor effecting a wider area. The ash-flow tuff "sills" appear to have served as conduits for hydrothermal fluids although vertical fractures appear to be important, particularly in the Prince Albert, Tuxedo, and Grant zones (Figure 14). Hydrothermal fluids tended to spread laterally in the tuffs, locally reacting with the upper surfaces of dolomite slide blocks resulting in silicification of the dolomite and regional argillization of the tuff. The result of this lateral fluid migration is broad but usually thin scabs of jasperoids. Only locally was gold concentrated in jasperoids with little concentration in the tuff. Why some sideblocks were silicified and others not is yet understood. There does appear to be a strong tendency for slide blocks at relatively high structural elevations to be silicified and those at lower structural elevations to be relatively unaltered.

In the Prince Albert area, mineralization appears to be limited to a few small blocks of jasperoid. Local zones of anomalous gold occur in the tuff but non could be considered ore grade. Additional drilling in the Prince Albert zone could demonstrate additional mineralization but of small tonnage (probably less than 100,000 tons) and of low grade gold (probably averaging no more than 0.03 opt Au). The rather steep terrain could make stripping ratios prohibitive, particularly of the jasperoid encountered in SL-88-1. The rather low values of silver do not enhance the overall grade of the zone.

Only one hole was drilled in the Grant Zone which did not encounter ore-grade mineralization. The exposed part of the

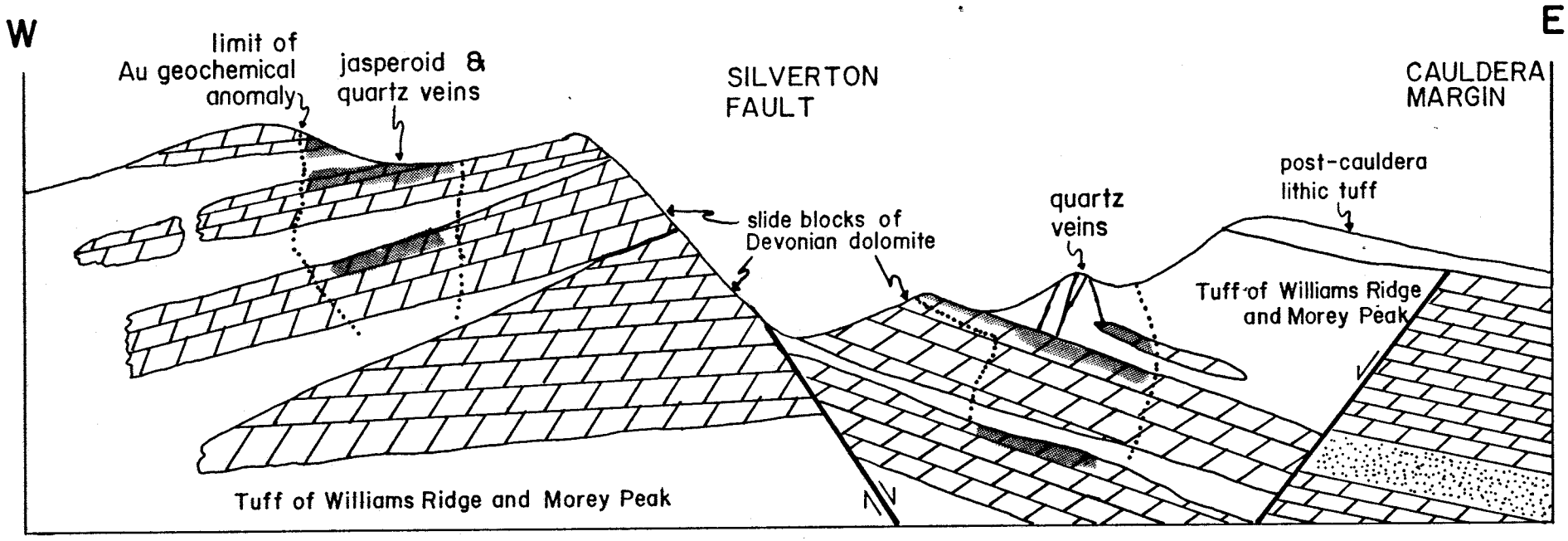


FIGURE 14.

SCHEMATIC CROSS SECTION OF SILVERTON
SHOWING GENERALIZED MODEL OF MINERALIZATION

not to scale
vertically exaggerated

zone is rather small and surface gold values are low. The limited exploration does not discount potential for a small deposit (probably less than 100,000 tons) of probably low grade gold.

The Tuxedo zone was not drilled but is of limited surficial extent. Surface sampling indicates the possibility of a small tonnage of low grade gold.

The Silver King zone has not been extensively drilled but potential appears limited. The only relatively thick intercepts of anomalous, although not ore grade, gold were encountered in SL-88-7. The jasperoids beneath the tuff encountered by SL-88-7, SL-88-8 and Olympic Mining Corp. RDH82-1 did not contain ore grade gold. RDH82-2 did encounter a few 5 foot intervals of ore grade gold (up to 0.09 opt) just below the tuff contact (Thompson, 1982). Additional drilling might locate mineralization in the jasperoid beneath the tuff but the zones would probably be rather thin with considerable overburden.

The Northridge zone was only drilled on the east end. By far the best grades so far drilled in the district were encountered in this area but were basically confined to one jasperoid horizon. The southern end of the jasperoid (about 1000 feet of strike length) holds promise for a small ore body. Since the jasperoid dips into the hill, open pitable reserves are definitely limited with a reasonable stripping ratio. The jasperoid block is apparently truncated to the east as indicated in SL-88-14. The northern part of the jasperoid was not drilled and an additional small tonnage potential may exist. The western end of the Northridge zone was not drilled. Surface sampling yielded relatively low gold values but does not preclude potential for the area.

The area around the Silverton Fault was not drilled during this program. As a result of previous drilling Thompson and Crooker (1981) suggest a potential of 1,500,000 tons averaging 3.75 opt silver with a length of 2000 feet and a width of 200 feet. No information was collected to confirm or deny this potential during the 1988 program.

REFERENCES

Ekren, E.B., Hinrichs, E.N., Quinlivan, W.D., and Hoover, D.L., 1973, Geologic map of the Moores Station quadrangle, Nye County, Nevada: U.S. Geology Survey Misc. Inv. Geology Map I-756.

Ernst, D.R., 1987, Silverton follow-up: Inspiration Gold, Inc., company report, 6 p.

Hudson, D.M., 1987, (Property examination report - Silverton): Inspiration Gold, Inc., company report, 7 p.

Kleinhampl, F.J., and Ziony, J.I., 1984, Mineral resources of northern Nye County, Nevada: Nevada Bureau Mines Geology Bulletin 99B, 243 p.

Kleinhampl, F.J., and Ziony, J.I., 1985, Geology of northern Nye County, Nevada: Nevada Bureau Mines Geology Bulletin 99A, 172 p.

Quinlivan, W.D., Rogers, C.L., and Dodge, H.W., 1974, Geologic map of the Portuguese Mountain quadrangle, Nye County, Nevada: U.S. Geol. Survey Misc. Inv. Geol. Map I-804.

Thompson, W.D., 1980, Geochemical survey of the Silverton Mine area, Silverton Mining district, Nye County, Nevada: Olympic Mining Corp., consulting report, 77 p.

Thompson, W.D., 1982, Clay alteration in volcanic rocks Silverton mining district, Nye County, Nevada: Olympic Mining Corp., consulting report, 32 p.

Thompson, W.D., and Crooker, G.C., 1981, Geology of the Silverton mining district, Nye County,, Nevada: Olympic Mining Corp., consulting report, 119 p.

APPENDIX I

SURFACE GEOCHEMICAL RESULTS

HUNT. R MINING LABORATOI , INC.

994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE:(702) 358-6227

REPORT OF ANALYSIS

Submitted by:

INSPIRATION GOLD, INC.
D. Hudson
100 W. GROVE #175
RENO, NV 89509

Date: October 21, 1987

Laboratory number: 31879

Analytical Method: AA
Flameless AA

Your Order Number: Hudson

Report on: 105 Samples, rock

Sample Mark	Gold ppm	Silver ppm	Arsenic ppm	Antimony ppm	Mercury ppb	Mercury ppm
DMH-87-525	0.01	0.5	220	76	980	
DMH-87-526	0.15	4.0	100	73	840	
DMH-87-527	-0.01	-0.1	150	7	270	
DMH-87-528	0.42	16.5	240	56	860	
DMH-87-529	-0.01	0.6	41	36	610	
DMH-87-530	-0.01	-0.1	60	11	350	
DMH-87-531	0.36	1.9	150	84	770	
DMH-87-532	-0.01	-0.1	110	34	270	
DMH-87-533	-0.01	-0.1	25	6	170	
DMH-87-534	0.44	11.0	470	180		1.0
DMH-87-535	0.17	7.1	210	1.40%		1.0
DMH-87-536	0.03	5.3	270	46		1.6
DMH-87-537	0.52	2.8	180	67		1.6
DMH-87-538	-0.01	0.8	45	19	320	
DMH-87-539	0.56	1.8	120	38		1.6
DMH-87-540	1.31	7.8	130	87	760	
DMH-87-541	2.24	6.1	520	170		8.5
DMH-87-542	0.13	1.5	840	170		5.0
DMH-87-543	0.01	0.2	350	31		4.3

ppm = parts per million. oz/ton = troy ounces per ton of 2000 pounds avoirdupois. percent = parts per hundred. fineness = parts per thousand. ppb = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

HUNT. R MINING LABORATOI _!, INC.
994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE:(702) 358-6227

INSPIRATION GOLD, INC. Page: 2 Laboratory No: 31879

Sample Mark	Gold ppm	Silver ppm	Arsenic ppm	Antimony ppm	Mercury ppb	Mercury ppm
DMH-87-544	-0.01	-0.1	140	13		4.3
DMH-87-545	-0.01	0.1	440	28		3.0
DMH-87-546	1.04	6.2	270	110		4.1
DMH-87-547	-0.01	-0.1	27	8	200	
DMH-87-548	-0.01	0.3	210	18	740	
DMH-87-549	0.06	7.4	300	98		4.0
DMH-87-550	-0.01	3.6	0.12%	320		4.8
DMH-87-551	-0.01	14.0	200	140	640	
DMH-87-552	-0.01	2.2	73	91	170	
DMH-87-553	0.07	2.7	240	77	600	
DMH-87-554	0.20	0.4	120	80	220	
[illegible]-87-555	0.17	1.0	270	76	560	
DMH-87-556	0.20	1.8	330	130		1.3
DMH-87-557	-0.01	-0.1	0.19%	170		1.4
DMH-87-558	-0.01	0.2	340	76		4.9
DMH-87-559	-0.01	-0.1	130	39		1.9
DMH-87-560	-0.01	-0.1	110	40		1.6
DMH-87-561	-0.01	-0.1	100	22		530.0
DMH-87-562	-0.01	-0.1	380	210		8.0
DMH-87-563	-0.01	0.1	320	51		22.0
DMH-87-564	0.01	-0.1	320	69		5.8
DMH-87-565	0.02	0.4	0.10%	0.15%		1.5
DMH-87-566	-0.01	0.7	36	10	210	
DMH-87-567	0.11	4.0	54	13	380	
DMH-87-568	0.05	0.1	800	54	180	
DMH-87-569	-0.01	0.1	230	16	570	
DMH-87-570	-0.01	-0.1	180	-1		1.5

ppm = parts per million. oz/ton = troy ounces per ton of 2000 pounds avoirdupois. percent = parts per hundred. fineness = parts per thousand.
ppb = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

HUNT. R MINING LABORATOI _, INC.
994 GLENDALE AVENUE • SPARKS, NEVADA 89431 • TELEPHONE:(702) 358-6227

INSPIRATION GOLD, INC. Page: 3 Laboratory No: 31879

Sample Mark	Gold ppm	Silver ppm	Arsenic ppm	Antimony ppm	Mercury ppb	Mercury ppm
DMH-87-571	-0.01	0.8	43	120	660	
DMH-87-572	-0.01	-0.1	730	-1	50	
DMH-87-573	-0.01	-0.1	310	27	390	
DMH-87-574	-0.01	-0.1	260	20	100	
DMH-87-575	-0.01	0.2	45	-1	60	
DMH-87-576	-0.01	-0.1	7	-1	40	
DMH-87-577	-0.01	0.3	31	1	70	
DMH-87-578	-0.01	1.4	20	3	60	
DMH-87-579	-0.01	0.4	17	-1	70	
DMH-87-580	-0.01	0.1	8	1	60	
DMH-87-581	-0.01	0.7	40	2	100	
DMH-87-582	-0.01	0.2	35	1	110	
DMH-87-583	0.41	9.6	18	-1	50	
DMH-87-584	-0.01	5.2	31	-1	70	
DMH-87-585	0.06	11.3	-5	7	250	
DMH-87-586	-0.01	0.2	13	-1	50	
DMH-87-587	-0.01	0.2	17	1	40	
DMH-87-588	-0.01	3.3	140	5	260	
DMH-87-589	1.81	26.3	130	13		3.8
DMH-87-590	-0.01	3.2	110	7	100	
DMH-87-591	0.30	25.8	290	11		2.5
DMH-87-592	0.25	35.5	240	20	740	
DMH-87-593	-0.01	-0.1	40	-1	70	
DMH-87-594	-0.01	-0.1	10	-1	50	
DMH-87-595	-0.01	0.1	28	-1	40	
DMH-87-596	-0.01	0.1	14	-1	50	
DMH-87-597	-0.01	-0.1	19	-1	40	

ppm = parts per million. **oz/ton** = troy ounces per ton of 2000 pounds avoirdupois. **percent** = parts per hundred. **fineness** = parts per thousand.
ppb = 0.001 ppm. Read — as "less than". 1 oz/ton = 34.286 ppm. 1 ppm = 0.0001% = 0.029167 oz/ton. 1.0% = 20 pounds/ton.

Chemex Labs Inc.
Analytical Chemists * Geochemists * Registered Assayers
994 WEST GLENDALE AVE., SUITE 7, SPARKS, NEVADA, U.S.A. 89431
PHONE (702) 356-5395

IRATION GOLD INCORPORATED
100 WEST GROVE ST., # 175
RENO, NEVADA
89509
Project : 624
Comments:

Page No.
Tot. Pages
Date : 24-NOV-87
Invoice # : I-8726155
P.O. # :

CERTIFICATE OF ANALYSIS A8726155

SAMPLE DESCRIPTION	PREP CODE		Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Au ppb RUSH
DRE-87-189	255	--	0.2	24	180	8.0	25
DRE-87-190	255	--	0.2	29	200	7.6	20
DRE-87-191	255	--	0.1	260	290	25.0	25
DRE-87-192	255	--	0.1	11	240	4.8	15
DRE-87-193	255	--	1.6	100	530	30.0	55
DRE-87-194	255	--	2.8	300	500	290	840
DRE-87-195	255	--	0.9	1500	550	220	330
DRE-87-196	255	--	0.5	800	5800	430	130
DRE-87-197	255	--	3.9	180	3800	110.0	190
DRE-87-198	255	--	0.3	110	490	35.0	55
DRE-87-199	255	--	0.1	160	730	17.4	25
DRE-87-200	255	--	0.2	160	2000	32.0	70
DRE-87-201	255	--	8.3	310	3800	120.0	450
DRE-87-202	255	--	2.2	1300	2900	720	350
DRE-87-203	255	--	2.9	420	4000	110.0	150
DRE-87-204	255	--	0.2	70	350	90.0	25
DRE-87-205	255	--	7.2	15	5800	>1000	760
DRE-87-206	255	--	2.2	39	2600	170.0	205
DRE-87-207	255	--	0.1	80	1200	150.0	15
DRE-87-208	255	--	0.1	45	1000	30.0	20
DRE-87-209	255	--	0.1	90	1000	28.0	10
DRE-87-210	255	--	0.1	17	400	17.0	15
DRE-87-211	255	--	0.1	200	160	20.0	10
DRE-87-212	255	--	0.1	190	310	38.0	10
DRE-87-213	255	--	0.1	19	240	12.0	30
DRE-87-214	255	--	0.4	5500	1800	160.0	325
DRE-87-215	255	--	0.3	220	780	65.0	850
DRE-87-216	255	--	1.1	320	2300	100.0	425
DRE-87-217	255	--	0.1	57	180	28.0	85
DRE-87-218	255	--	0.9	190	870	120.0	420
DRE-87-219	255	--	0.1	400	1800	110.0	10
DRE-87-220	255	--	0.1	120	850	45.0	20
DRE-87-221	255	--	0.1	39	290	24.0	10
DRE-87-222	255	--	0.1	70	150	5.0	10
DRE-87-223	255	--	0.1	14	200	10.0	15
DRE-87-224	255	--	6.5	310	2100	29.0	915
DRE-87-225	255	--	0.1	12	90	2.0	15
DRE-87-226	255	--	0.1	130	550	5.6	20
DRE-87-227	255	--	0.1	5	70	2.2	15
DRE-87-228	255	--	0.1	5	60	0.5	5

CERTIFICATION : Hart Bichler

Chemex Labs Inc.
Analytical Chemists * Geochemists * Registered Assayers
994 WEST GLENDALE AVE., SUITE 7, SPARKS,
NEVADA, U.S.A. 89431
PHONE (702) 356-5395

'IRATION GOLD INCORPORATED
100 WEST GROVE ST., # 175
RENO, NEVADA
89509
Project : 624
Comments:

Page No
Tot. Pages
Date : 24-NOV-87
Invoice # : I-8726155
P.O. # :

CERTIFICATE OF ANALYSIS A8726155

SAMPLE DESCRIPTION	PREP CODE		Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Au ppb RUSH
DRE-87-229	255	--	0.1	11	100	4.2	< 5
DRE-87-230	255	--	0.1	4	70	0.8	< 5
DRE-87-231	255	--	0.1	370	1500	150.0	5
DRE-87-232	255	--	0.1	100	420	51.0	50
DRE-87-233	255	--	0.2	830	12000	350	350
DRE-87-234	255	--	0.1	620	620	42.0	120
DRE-87-235	255	--	0.1	360	2400	54.0	50
DRE-87-236	255	--	0.1	680	710	12.0	5
DRE-87-237	255	--	0.1	70	380	5.4	5
DRE-87-238	255	--	0.1	19	120	2.0	5
DRE-87-239	255	--	0.1	1800	340	9.6	< 5
DRE-87-240	255	--	0.1	80	1100	16.2	< 5
DRE-87-241	255	--	0.1	60	70	1.8	< 5
DRE-87-242	255	--	0.1	170	230	8.6	< 5
DRE-87-243	255	--	0.1	29	70	1.4	< 5
DRE-87-244	255	--	0.1	41	150	3.8	< 5
DRE-87-245	255	--	0.1	2100	2600	110.0	30
DRE-87-246	255	--	0.1	27	90	3.8	5
DRE-87-247	255	--	0.1	60	150	10.0	< 5
DRE-87-248	255	--	0.1	500	400	13.0	< 5
DRE-87-249	255	--	0.1	36	100	2.2	5
DRE-87-250	255	--	0.1	250	120	63.0	< 5
DRE-87-251	255	--	0.1	16	170	4.8	5

CERTIFICATION : Hart Bichler

Chemex Labs Inc.
Analytical Chemists * Geochemists * Registered Assayers
994 WEST GLENDALE AVE., SUITE 7, SPARKS,
NEVADA, U.S.A. 89431
PHONE (702) 356-5395

T GOLD/INSPIRATION
240 S. ROCK BLVD., STE. 143
RENO, NEVADA
89502
Project : G.B.RECON#624
Comments: ATTN: RICHARD F REID, JR

Page No.
Tot. Pag
Date : 24-MAR-88
Invoice # : I-8813164
P.O. # :

CERTIFICATE OF ANALYSIS A8813164

SAMPLE DESCRIPTION	PREP CODE		Ag ppm Aqua R	As ppm	Hg ppb	Sb ppm	Au ppb FA+AA					
RFR 88-203A	205	--	0.7	320	5200	110.0	5					
RFR 88-204A	205	--	3.3	380	1600	130.0	440					
RFR 88-205A	205	--	0.1	110	1400	67.0	30		SILVERTON,	Nye CO.	, NV.	
RFR 88-206A	205	--	0.1	140	580	94.0	1.5					
RFR 88-207A	205	--	0.1	29	380	4.0	< 5					
RFR 88-208A	205	--	0.3	7	420	1.6	< 5					
RFR 88-209A	205	--	0.4	3	140	0.5	< 5					
RFR 88-210A	205	--	0.3	3	100	1.2	< 5					
RFR 88-211A	205	--	0.1	910	890	90.0	< 5					
RFR 88-212A	205	--	0.1	150	1500	75.0	< 5					
RFR 88-270	205	--	24.0	550	4400	>1000	825	SILVERTON,	NYE	CO., NV.		

GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80308C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
RFR 88 185	1	<.014	10.6	.006	2.85	<.095	.412	8.53	<.237	<.474	17.6	<.237	<.095	1.04	<.474	<.949	<.474
RFR 88 186	2	.021	168.	.003	3.60	.134	6.48	1.46	<.233	.668	2.74	<.233	<.093	<.466	<.466	<.933	<.466
RFR 88 187	3	.022	242.	.004	3.95	.551	2.67	6.54	1.88	<.49	25.1	<.245	<.098	<.49	<.49	<.98	<.49
RFR 88 188	4	<.015	205.	.003	4.99	<.099	2.61	11.6	1.60	<.494	14.0	<.247	<.099	1.33	<.494	<.988	<.494
RFR 88 189	5	<.014	296.	.004	3.60	.540	1.97	7.94	2.75	<.473	77.3	<.237	<.095	<.473	<.473	<.947	<.473
RFR 88 190	6	<.014	4893	.004	2.20	7.41	28.4	4.50	17.7	1.51	280.	<.24	<.096	6.25	<.481	<.962	.650
RFR 88 191	7	<.013	1278	.003	1.21	1.91	8.57	2.05	6.35	<.439	73.0	<.219	<.088	1.01	<.439	<.877	<.439
RFR 88 192	8	2.03	952.	.252	5.27	.481	5.32	18.6	36.8	1.89	8.22	.348	<.096	<.479	<.479	<.958	<.479
RFR 88 193	9	.023	52.8	.003	1.64	<.095	.601	10.4	.801	<.476	6.55	<.238	<.095	<.476	<.476	<.952	<.476
RFR 88 194	10	.018	88.1	.003	4.12	.117	5.80	2.62	2.71	.570	13.1	4.86	<.093	<.464	<.464	<.928	<.464
RFR 88 195	11	.027	253.	.003	5.41	.456	6.90	4.27	10.9	2.55	88.0	.690	<.097	<.483	<.483	<.965	<.483
RFR 88 196	12	.023	114.	.003	2.67	.353	1.75	5.18	20.6	.801	57.3	<.242	<.097	<.484	<.484	<.969	<.484
RFR 88 197	13	.436	96.2	.006	5.80	1.17	2.04	1.21	25.2	.948	13.2	<.223	<.089	<.446	<.446	<.891	<.446
RFR 88 198	14	.034	313.	.003	7.26	.226	2.14	17.8	2.08	.464	94.1	.359	<.091	.677	<.457	<.914	<.457
RFR 88 200	16	.509	2087	.096	4.35	<.093	4.77	11.8	93.0	.872	47.0	.355	<.093	.574	<.466	<.933	<.466
RFR 88 201	17	.05	472.	.005	5.38	.917	1.53	26.6	10.9	1.40	97.9	.720	.164	<.473	<.473	<.947	<.473
RFR 88 202	18	.306	1146	.115	4.83	7.53	1.36	43.8	18.3	1.53	57.8	.358	<.099	<.497	<.497	<.994	<.497

Silver
Nye

Silver
Nye G

2741 Toledo Street Suite 211 • Torrance, California 90503 • Telephone 213/320-3680
55 Glen Carran Circle • Sparks, Nevada 89431 • Telephone 702/359-6600

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80920W

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88-38	3	10.8	41.7	.044	3.31	.853	9.34	8.34	1747	<.489	2.30	<.245	<.098	.591	<.489	2.05	<.489
DMH-88-39	4	3.71	113.	.185	4.19	1.50	6.71	20.2	2862	<.494	5.13	<.247	<.099	.998	<.494	1.93	<.494
DMH-88-40	5	17.5	288.	.110	5.11	.639	9.99	11.3	3525	<.488	4.00	<.244	<.098	<.488	<.488	3.33	<.488
DMH-88-41	6	54.6	505.	.287	4.77	.810	5.75	10.2	318.	.719	<.98	<.245	<.098	.795	<.49	1.14	<.49
DMH-88-42	7	38.3	239.	.160	5.59	1.98	10.3	12.8	5878	<.493	4.03	<.246	<.099	<.493	<.493	3.97	<.493
DMH-88-43	8	2.08	397.	.029	5.39	.588	5.29	10.1	2283	<.494	2.02	<.247	<.099	.607	<.494	3.43	<.494
DMH-88-44	9	51.1	83.5	.099	6.44	.599	14.5	14.3	8741	<.49	4.26	<.245	<.098	<.49	<.49	10.1	<.49
DMH-88-45	2	3.27	1410	.620	16.4	8.93	13.2	13.1	17.8K	<4.71	13.3	<2.35	<.943	<4.71	<4.71	<9.43	<4.71

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80526C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88 300	1	.014	591.	.004	6.49	1.35	2.94	31.0	41.7	6.76	8.14	<.232	<.093	5.03	<.464	<.928	<.464
DMH-88 301	2	.074	348.	.032	4.44	.515	4.77	17.0	22.9	2.35	7.73	<.243	<.097	1.86	<.487	<.974	<.487
DMH-88 302	3	2.42	417.	.975	7.91	1.11	2.73	13.6	115.	1.42	29.5	<.247	<.099	<.495	<.495	1.40	<.495
DMH-88 303	4	1.33	179.	.184	6.51	1.09	2.51	9.05	107.	2.73	35.1	<.237	<.095	<.474	<.474	3.51	<.474
DMH-88 304	5	1.38	80.6	.009	7.63	<.093	1.37	11.7	49.1	.472	8.48	<.233	<.093	<.467	<.467	<.934	<.467
DMH-88 305	6	<.014	513.	.004	7.60	.138	4.58	8.17	197.	12.8	22.6	<.239	<.096	1.00	<.478	<.955	<.478
DMH-88 306	7	<.014	234.	.003	3.73	<.093	3.12	3.11	15.0	26.1	1168	<.232	<.093	<.464	<.464	.935	.534
DMH-88 307	8	.144	156.	.021	7.03	1.76	2.36	4.81	50.2	<.469	10.8	<.235	<.094	<.469	<.469	<.939	<.469
DMH-88 308	9	<.015	25.1	.003	2.49	<.097	.745	4.04	6.75	<.487	15.9	<.244	<.097	<.487	<.487	<.975	<.487
DMH-88 309	10	<.014	55.8	.003	3.04	<.095	.509	3.85	13.3	<.477	3.25	<.239	<.095	<.477	<.477	<.954	<.477
DMH-88 310	11	<.014	17.4	.003	6.07	<.093	.558	6.16	3.41	<.466	9.40	<.233	<.093	<.466	<.466	<.933	<.466
DMH-88 311	12	<.015	29.2	.004	4.54	<.098	.799	3.32	7.84	.667	4.79	<.246	<.098	<.492	<.492	<.984	<.492
DMH-88 312	13	<.014	5.24	.003	2.59	<.096	.787	2.51	.659	<.479	2.97	<.24	<.096	<.479	<.479	<.959	<.479
DMH-88 313	14	.140	57.9	.104	5.75	.546	3.66	28.5	35.2	.711	6.56	<.245	<.098	<.491	<.491	<.981	<.491
DMH-88 314	15	<.015	1.38	.002	.894	<.099	.617	4.59	.728	<.496	<.991	<.248	<.099	<.496	<.496	<.991	<.496
DMH-88 315	16	<.014	3.58	.002	1.07	<.094	.790	2.25	3.64	<.471	<.943	<.236	<.094	<.471	<.471	<.943	<.471
DMH-88 316	17	<.014	<.966	.002	3.39	<.097	.272	3.11	<.242	<.483	1.75	<.242	<.097	<.483	<.483	<.966	<.483
DMH-88 317	18	<.014	2.97	.003	5.24	<.095	4.36	3.38	.443	<.476	2.89	<.238	<.095	<.476	<.476	<.952	<.476
DMH-88 318	19	<.014	<.951	.002	3.14	<.095	.185	1.94	<.238	<.476	1.41	<.238	<.095	<.476	<.476	<.951	<.476
DMH-88 319	20	2.11	293.	.244	6.78	.796	1.63	4.92	77.8	6.02	103.	<.246	.100	<.493	<.493	<.985	<.493
DMH-88 320	21	.831	47.6	.084	3.79	.597	5.28	2.74	34.5	1.00	33.8	<.237	<.095	<.474	<.474	<.949	<.474
DMH-88 321	22	11.1	82.6	.108	5.03	1.42	3.94	5.74	20.5	<.488	5.95	<.244	<.098	.566	<.488	1.10	<.488
DMH-88 322	23	1.91	50.8	.054	7.54	.319	1.37	7.21	38.0	<.478	19.4	<.239	<.096	<.478	<.478	2.86	<.478
DMH-88 322(DUP)	24	1.15	122.	.058	4.79	.995	3.90	3.98	71.0	4.25	58.2	<.244	<.097	<.487	<.487	1.19	<.487
DMH-88 324	25	.395	83.8	.046	4.38	.543	2.83	2.69	24.9	1.11	10.6	<.233	<.093	<.467	<.467	<.934	<.467
DMH-88 325	26	2.44	128.	.204	5.56	1.26	1.89	4.01	87.9	5.80	15.2	<.244	<.097	<.487	<.487	3.35	<.487
DMH-88 326	27	15.9	339.	.239	15.6	.220	2.38	9.45	87.9	1.55	28.6	<.243	<.097	<.486	<.486	<.973	<.486
DMH-88 327	28	.022	4.45	.002	2.98	<.099	2.01	2.40	.621	<.496	.998	<.248	<.099	<.496	<.496	<.991	<.496
DMH-88 328	29	<.015	<.967	.002	.835	<.097	.530	1.65	<.242	<.484	2.67	<.242	<.097	<.484	<.484	<.967	<.484
DMH-88 329	30	<.015	9.27	.003	5.46	<.099	10.7	3.07	4.99	<.494	4.76	<.247	<.099	<.494	<.494	<.987	<.494

2741 Toledo Street Suite 211 • Torrance, California 90503 • Telephone 213/320-3680
55 Glen Carran Circle • Sparks, Nevada 89431 • Telephone 702/359-6600

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80526C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88 330	31	.018	5.76	.003	2.91	<.097	1.04	4.38	2.44	<.487	5.13	<.244	<.097	<.487	<.487	<.975	<.487
DMH-88 331	32	<.015	6.05	.001	4.82	<.098	11.4	2.96	2.50	<.489	3.29	<.244	<.098	<.489	<.489	<.978	<.489
DMH-88 332	33	<.015	6.17	.002	5.56	.185	2.27	1.92	4.49	<.484	16.4	<.242	<.097	<.484	<.484	<.969	<.484
DMH-88 333	34	.038	63.4	.002	3.32	.884	3.40	4.09	35.3	1.28	31.8	<.249	.114	<.498	<.498	<.996	<.498
DMH-88 334	35	<.015	47.6	.002	3.75	<.097	12.2	1.41	7.83	<.484	5.39	<.242	<.097	<.484	<.484	<.967	<.484
DMH-88 335	36	<.015	19.2	.002	3.94	.312	1.26	1.92	9.40	<.484	25.5	<.242	<.097	<.484	<.484	<.967	<.484
DMH-88 336	37	<.015	1.74	.002	6.53	<.098	1.63	.732	1.06	<.492	5.87	<.246	<.098	<.492	<.492	<.984	<.492
DMH-88 337	38	<.015	7.71	.001	4.15	.102	7.86	2.62	2.51	<.492	5.04	<.246	<.098	<.492	<.492	<.984	<.492
DMH-88 339	1	40.0	521.	1.35	14.1	<1.	12.8	7.05	10.7K	<5.	12.4	<2.5	<1.	<5.	<5.	10.5	<5.
DMH-88 340	1	.772	91.3	.054	5.20	.113	1.22	2.19	57.7	<.483	7.01	<.241	.211	<.483	<.483	<.965	<.483
DMH-88 341	2	58.6	107.	.053	8.18	.259	6.42	6.73	141.	1.29	15.8	<.249	.241	<.497	<.497	<.994	<.497
DMH-88 342	3	10.6	37.6	.064	8.56	.128	2.97	2.88	17.3	.850	6.63	<.239	.167	<.479	<.479	<.958	<.479
DMH-88 343	4	3.21	9.99	.013	6.79	<.097	1.90	2.30	9.95	<.483	8.19	<.241	.160	<.483	<.483	<.965	<.483
DMH-88 344	5	.264	5.63	.002	2.44	<.097	1.02	1.36	1.70	<.485	16.5	<.243	.159	<.485	<.485	<.971	<.485
DMH-88 345	6	1.53	8.94	.006	4.14	<.097	.829	1.81	3.79	<.483	16.5	<.242	.161	<.483	<.483	<.966	<.483
DMH-88 346	7	1.63	15.7	.008	3.67	<.099	.788	2.28	3.65	<.493	10.1	<.246	.132	<.493	<.493	<.985	<.493
DMH-88 347	8	2.90	31.4	.029	8.73	.099	4.91	5.08	8.95	<.487	25.6	<.243	.215	<.487	<.487	<.974	<.487
DMH-88 348	9	41.3	36.2	.054	13.8	<.096	3.80	3.42	32.2	<.481	7.41	<.24	.149	<.481	<.481	<.962	<.481
DMH-88 349	10	9.39	57.3	.057	9.96	.310	4.99	3.21	37.1	.796	17.8	<.244	.268	<.489	<.489	<.978	<.489
DMH-88 350	11	44.5	45.5	.144	10.6	.234	4.70	3.34	39.0	.944	13.0	<.242	.158	<.484	<.484	<.968	<.484
DMH-88 351	12	.219	22.2	.002	4.22	<.098	.455	1.75	4.10	.642	10.9	<.246	.135	<.492	<.492	<.984	<.492
DMH-88 352	13	2.47	206.	.073	9.23	.831	6.28	6.21	57.9	4.09	17.7	<.244	.303	<.489	<.489	<.978	<.489
DMH-88 353	14	.810	61.6	.02	4.29	.109	2.58	4.54	6.47	.825	5.79	<.246	.195	<.493	<.493	<.985	<.493
DMH-88 354	15	.041	51.4	.004	6.87	.110	2.86	22.1	4.75	.612	32.8	.270	.227	.512	<.488	<.976	<.488
DMH-88 355	16	.209	17.3	.008	3.94	<.099	.466	1.86	1.72	.668	8.35	<.247	.151	<.494	<.494	<.987	<.494
DMH-88 356	17	.171	8.75	.005	3.95	<.097	.735	1.77	2.14	.539	8.84	<.244	<.097	<.487	<.487	<.975	<.487
DMH-88 357	18	52.5	32.9	.037	9.19	.162	5.16	7.39	59.6	.753	7.13	<.242	.189	<.484	<.484	<.968	<.484
DMH-88 358	19	.395	5.05	.006	1.01	<.098	.665	1.67	2.67	.526	13.5	<.245	.103	<.49	<.49	<.98	<.49
DMH-88 359	20	.089	5.96	.005	1.38	<.097	.300	1.04	2.05	.528	3.34	<.244	.101	<.487	<.487	<.975	<.487
DMH-88 360	21	.397	5.08	.005	1.67	<.098	.437	1.93	1.21	.528	4.27	<.245	.120	<.49	<.49	<.98	<.49

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80607C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88 361	22	.438	51.0	.072	3.95	.114	3.25	2.78	4.03	<.489	11.1	<.244	.316	<.489	<.489	<.978	<.489
DMH-88 362	23	.032	18.9	.001	3.47	<.098	.639	1.76	4.19	<.488	8.11	<.244	.164	<.488	<.488	<.976	<.488
DMH-88 363	24	.033	91.6	.003	5.48	.170	4.24	18.1	5.84	<.487	44.5	<.243	.245	.538	<.487	<.974	<.487
DMH-88 364	25	.129	13.2	.011	2.17	<.097	.462	1.90	3.95	.613	8.13	<.243	.127	<.486	<.486	<.973	<.486
DMH-88 365	26	.139	18.6	.004	1.71	.117	.838	1.77	2.90	.627	9.88	<.248	.126	<.495	<.495	1.59	<.495
DMH-88 366	27	2.08	103.	.031	3.00	<.096	.297	1.36	3.02	.527	3.50	<.24	.188	<.481	<.481	<.962	<.481
DMH-88 367	28	2.49	132.	.045	4.88	.333	5.42	3.32	16.3	1.32	18.6	<.245	.164	<.491	<.491	<.981	<.491
DMH-88 368	29	<.015	4.37	.001	1.64	<.097	.540	.862	1.11	<.487	6.66	<.243	<.097	<.487	<.487	<.974	<.487
DMH-88 369	30	.036	113.	.005	5.94	<.098	2.40	19.4	4.94	<.49	35.2	<.245	.217	.898	<.49	<.979	<.49
DMH-88 370	31	.039	17.7	.006	6.10	<.097	3.12	2.37	1.61	.488	6.25	<.243	<.097	<.486	<.486	<.973	<.486
DMH-88 371	32	<.015	10.5	.001	2.23	<.099	.618	2.32	1.21	<.493	4.40	<.246	.105	<.493	<.493	<.985	<.493
DMH-88 372	33	.294	549.	.042	5.97	<.098	1.98	16.9	16.3	.499	20.2	<.245	.218	.550	<.489	<.978	<.489
DMH-88 373	34	18.7	131.	.401	8.75	.117	13.3	4.59	198.	1.33	9.08	<.246	.270	<.492	<.492	1.14	<.492
DMH-88 374	35	5.37	9.08	.014	1.80	<.098	1.50	1.47	8.26	.508	4.05	<.244	<.098	<.489	<.489	<.978	<.489
DMH-88 375	36	.214	15.7	.021	2.65	<.097	.938	2.17	1.76	.584	7.03	<.241	.102	<.483	<.483	<.965	<.483
DMH-88 376	37	.334	7.63	.011	3.66	<.096	1.70	2.23	1.38	<.479	6.78	<.239	<.096	<.479	<.479	<.958	<.479
DMH-88 377	38	13.5	11.3	.005	6.54	<.096	1.95	5.01	13.3	.654	5.40	<.241	.118	<.482	<.482	<.964	<.482
DMH-88 378	39	1.18	3.68	.001	5.19	<.098	1.43	1.32	1.65	<.49	7.28	<.245	<.098	<.49	<.49	<.98	<.49
DMH-88 379	40	2.05	53.5	.019	6.81	.558	8.48	3.98	44.0	3.32	6.63	<.246	.237	<.493	<.493	<.985	<.493
DMH-88 380	41	2.14	29.8	.056	7.96	<.097	3.84	1.86	5.07	.704	8.08	<.244	.153	<.487	<.487	<.975	<.487
DMH-88 381	42	1.19	31.4	.038	4.88	<.097	.970	3.15	29.8	.968	22.7	<.242	.122	<.483	<.483	<.966	<.483
DMH-88 382	43	.071	810.	.016	5.46	<.095	5.32	11.0	14.1	.556	23.4	<.238	.234	<.477	<.477	<.953	<.477
DMH-88 383	44	1.41	44.1	.057	7.22	<.097	2.03	1.86	8.34	.514	11.7	<.243	.139	<.485	<.485	<.971	<.485
DMH-88 384	45	11.4	92.4	.018	10.8	.443	2.06	2.88	30.7	1.67	31.8	<.245	.204	<.49	<.49	<.979	<.49
DMH-88 385	46	4.14	15.3	.012	6.72	<.097	2.96	2.34	10.1	.533	9.60	<.242	.115	<.484	<.484	<.968	<.484
DMH-88 386	47	.527	22.8	.015	3.84	<.098	.535	1.76	1.50	.658	10.7	<.244	.161	<.488	<.488	<.976	<.488
DMH-88 387	48	22.2	56.1	.056	8.46	.343	7.65	5.72	328.	.949	16.1	<.241	.237	<.481	<.481	1.16	<.481
DMH-88 388	49	.249	75.0	.031	4.35	<.096	.545	1.96	8.96	.997	6.21	<.24	.104	<.48	<.48	<.961	<.48
DMH-88 389	50	.083	120.	.003	8.56	<.099	5.27	20.7	7.38	.688	80.9	<.247	.260	.835	<.493	<.986	<.493
DMH-88 390	51	.921	1358	.314	6.35	<.098	6.26	12.3	40.9	.893	16.2	<.245	.276	.732	<.49	<.98	<.49
DMH-88 391	52	.232	126.	.03	9.84	<.098	2.70	9.19	8.26	.944	7.12	<.245	.140	.684	<.49	<.979	<.49

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80607C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88 392	53	12.5	61.2	.103	9.70	.108	8.69	2.11	17.3	.760	9.19	<.245	.163	<.491	<.491	<.981	<.491
DMH-88 393	54	.423	411.	.319	8.20	.224	5.48	8.28	19.5	.698	10.8	<.244	.343	1.27	<.487	<.975	<.487
DMH-88 394	55	<.015	15.4	.005	3.67	<.097	.558	1.78	2.48	.589	6.46	<.242	<.097	<.484	<.484	<.968	<.484
DMH-88 395	56	.021	11.5	.003	4.20	<.098	.380	2.38	.957	<.489	7.07	<.244	.117	<.489	<.489	<.978	<.489
DMH-88 396	57	.017	2.67	.002	5.28	<.098	<.098	1.78	.733	<.49	5.96	<.245	<.098	<.49	<.49	<.98	<.49
DMH-88 397	58	.03	40.3	.005	6.34	<.098	.235	2.75	2.06	.570	13.0	<.246	<.098	<.492	<.492	<.984	<.492
DMH-88 398	59	<.015	38.1	.002	2.70	<.097	.200	.824	2.05	<.484	13.1	<.242	<.097	<.484	<.484	<.969	<.484
DMH-88 399	60	.09	133.	.003	4.15	<.1	3.29	9.85	9.27	.575	16.9	<.249	.151	.718	<.499	<.997	<.499
DMH-88 400	61	.088	174.	.005	8.47	<.098	6.52	16.0	18.5	<.488	32.7	<.244	.164	.955	<.488	<.977	<.488
DMH-88 401	62	.034	60.9	.01	7.55	<.098	3.35	21.2	2.43	<.49	24.8	<.245	.101	.728	<.49	<.98	<.49
DMH-88 402	63	<.015	88.7	.001	6.33	<.098	4.29	18.9	14.4	.592	27.2	<.246	.117	1.16	<.492	<.984	<.492
DMH-88 403	64	.037	91.4	.002	4.52	<.096	.478	3.24	2.62	.607	9.55	<.24	<.096	<.48	<.48	<.961	<.48
DMH-88 404	65	<.015	27.5	.003	4.53	<.1	.392	2.36	1.45	.692	5.83	<.249	<.1	<.498	<.498	<.995	<.498
DMH-88 405	66	.016	29.4	.001	5.23	<.098	1.85	17.8	1.27	<.489	11.2	<.244	.109	1.07	<.489	<.978	<.489
DMH-88 406	67	.285	2535	.008	9.22	<.097	2.90	7.52	30.7	1.77	37.3	<.243	.319	<.485	<.485	<.971	<.485
DMH-88 407	68	.027	82.0	.004	4.97	<.096	.877	1.14	2.23	.671	7.81	<.241	<.096	<.482	<.482	<.963	<.482
DMH-88 408	69	.027	37.9	.004	3.57	<.098	.644	2.18	2.82	.504	8.42	<.244	.109	<.488	<.488	<.976	<.488
DMH-88 409	70	.024	47.3	.002	1.95	<.097	.196	.957	2.21	.883	49.0	<.243	.185	<.485	<.485	<.971	<.485
DMH-88 410	71	.015	83.1	.004	5.35	<.099	3.13	18.5	3.95	.741	29.6	<.248	.167	.584	<.496	<.991	<.496
DMH-88 411	72	.161	67.4	.01	4.37	.258	1.21	1.86	12.8	2.72	95.8	<.243	.099	<.486	<.486	<.972	<.486
DMH-88 412	73	.049	104.	.026	5.07	.102	3.39	2.97	6.99	1.20	18.5	<.238	.168	<.477	<.477	<.953	<.477
DMH-88 413	74	.268	27.5	.014	2.83	<.097	.864	1.90	5.81	1.43	7.72	<.244	<.097	<.487	<.487	<.975	<.487
DMH-88 414	75	2.93	261.	.041	9.44	1.50	5.92	3.25	91.0	5.77	19.7	<.246	.230	.524	<.493	<.985	<.493
DMH-88 415	76	5.05	787.	.550	10.0	.519	7.36	4.79	31.9	.912	35.0	<.249	.401	.902	<.498	1.53	<.498
DMH-88 416	77	2.56	141.	.219	11.8	1.13	8.66	2.80	21.8	.788	118.	<.248	.218	.615	<.495	<.99	<.495
DMH-88 417	78	3.16	636.	1.75	11.6	1.65	3.86	5.29	38.8	6.55	17.2	<.246	.270	.644	<.492	<.983	<.492
DMH-88 418	79	.179	224.	.009	6.17	1.31	1.74	1.99	15.8	1.97	64.1	<.242	.256	<.484	<.484	<.969	<.484
DMH-88 419	80	18.4	124.	.031	15.2	.125	5.50	4.89	36.4	2.01	29.1	<.244	.159	<.487	<.487	<.975	<.487
DMH-88 420	81	.996	17.8	.023	7.66	<.098	.896	3.35	1.33	.651	12.9	<.244	.136	<.488	<.488	<.977	<.488
DMH-88 421	82	47.7	32.8	.021	8.68	<.099	3.17	5.93	33.2	2.78	7.29	<.248	<.099	<.497	<.497	<.993	<.497

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80607C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88 422	83	.332	6.31	.001	4.84	<.1	.803	1.63	.733	1.15	9.23	<.249	<.1	<.499	<.499	<.997	<.499
DMH-88 423	84	.776	23.0	.017	5.73	<.098	2.06	2.22	2.30	.502	21.7	<.246	.148	<.492	<.492	<.984	<.492
DMH-88 424	85	.078	6.05	.001	6.74	<.099	3.04	2.51	1.05	<.497	9.61	<.248	.1	1.20	<.497	<.993	<.497
DMH-88 425	86	13.1	31.5	.087	8.14	<.098	2.56	3.02	3.19	.854	29.1	<.246	.151	<.492	<.492	<.983	<.492
DMH-88 426	87	.237	27.6	.005	2.12	<.099	.737	1.87	2.60	<.497	5.60	<.249	<.099	<.497	<.497	<.994	<.497
DMH-88 427	88	.361	32.1	.005	5.97	.162	2.10	2.98	6.03	<.488	7.48	<.244	.121	<.488	<.488	<.976	<.488
DMH-88 428	89	27.2	32.6	.005	48.0	.159	3.86	68.9	53.1	<.493	33.7	.254	.534	<.493	<.493	<.985	3.81
DMH-88 429	90	.162	15.7	.002	1.70	.118	.826	1.84	2.39	<.49	15.3	<.245	.130	<.49	<.49	<.98	<.49
DMH-88 430	91	5.89	88.6	.339	15.7	.182	3.81	4.93	30.2	.565	13.7	<.247	.157	<.493	<.493	<.986	<.493
DMH-88 431	92	18.6	346.	.052	23.1	.182	7.76	12.0	96.2	<.486	58.9	<.243	.232	<.486	<.486	<.973	<.486
DMH-88 432	93	5.31	255.	.125	13.0	1.92	3.21	9.04	40.8	2.46	14.0	<.246	.342	<.493	<.493	2.53	<.493
DMH-88 433	94	5.28	81.1	.038	7.80	.165	9.47	3.86	18.8	<.491	14.8	<.245	.139	<.491	<.491	<.981	<.491
DMH-88 434	95	24.8	60.1	.161	20.0	.126	5.75	5.07	66.8	<.498	18.4	<.249	.214	<.498	<.498	<.996	<.498
DMH-88 435	96	69.1	69.6	.145	26.4	.291	13.3	14.1	1822	.711	19.2	.261	.223	<.496	<.496	5.17	<.496
DMH-88 436	97	230.	135.	.322	38.2	.593	6.44	8.67	601.	.978	20.6	<.247	.258	<.494	<.494	3.14	.498
DMH-88 437	98	3.69	38.6	.036	7.20	.218	12.4	2.89	17.7	1.43	8.71	<.242	.197	<.484	<.484	<.967	<.484
DMH-88 438	99	434.	135.	.245	16.2	.758	6.47	15.5	253.	2.63	18.4	<.249	.251	<.499	<.499	3.02	<.499
DMH-88 439	100	19.7	234.	.323	10.3	.633	10.7	4.94	246.	<.479	15.7	<.24	.274	<.479	<.479	<.959	<.479
DMH-88 440	101	180.	125.	.500	45.9	.322	5.69	6.67	4455	.749	17.7	<.242	.198	<.484	<.484	3.42	.775
DMH-88 441	102	10.4	1964	1.55	10.6	.780	14.4	7.14	759.	6.26	9.83	.499	.282	1.04	<.497	2.05	<.497
DMH-88 442	103	2.72	220.	.175	7.57	2.47	2.90	3.18	38.9	1.66	159.	<.246	.196	<.492	<.492	<.983	<.492
DMH-88 443	104	128.	430.	.203	18.9	2.66	10.1	8.92	168.	6.71	134.	.268	.319	1.26	<.487	1.64	<.487
DMH-88 444	105	.123	22.4	.032	8.58	<.099	4.64	3.24	3.10	.552	133.	<.248	.230	1.06	<.495	<.99	<.495
DMH-88 445	106	1.00	369.	.296	16.3	<.099	3.74	8.42	51.4	5.39	2858	<.247	1.39	1.63	<.495	2.78	.789
DMH-88 446	107	2.52	251.	.751	4.94	2.06	8.21	6.85	40.9	1.12	44.8	<.25	.256	1.05	<.5	1.20	<.5

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80624I

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88-447	1	.588	63.6	.106	6.73	.400	12.6	4.79	20.9	.671	29.0	.385	<.1	<.498	<.498	<.995	<.498
DMH-88-448	2	.905	97.1	.08	11.7	.529	10.2	5.77	29.0	.741	84.6	.323	.178	<.496	<.496	<.992	<.496
DMH-88-449	3	53.4	43.6	.111	13.2	1.01	4.08	6.14	104.	2.32	10.7	.273	<.096	<.48	<.48	<.961	<.48
DMH-88-450	4	16.7	47.0	.039	9.52	1.04	11.8	3.96	90.9	1.08	14.5	.285	<.096	<.482	<.482	.992	<.482
DMH-88-451	5	1.08	49.3	.035	9.65	.515	4.21	3.36	33.8	1.54	45.9	.272	<.099	<.494	<.494	<.987	<.494
DMH-88-452	6	2.20	42.9	.061	6.73	.534	7.35	2.84	42.0	1.64	10.4	<.25	<.1	<.499	<.499	<.998	<.499
DMH-88-453	7	1.30	36.1	.085	6.36	.501	2.52	2.95	20.9	1.25	30.9	.295	<.098	<.491	<.491	<.982	<.491
DMH-88-454	8	1.64	121.	.027	11.3	.809	13.1	5.93	49.1	3.82	10.4	.301	<.099	<.497	<.497	<.993	<.497
DMH-88-455	9	.870	58.1	.019	9.31	1.06	3.32	3.38	31.4	16.3	298.	<.245	.417	<.49	<.49	<.98	<.49
DMH-88-456	10	1658	252.	.297	33.4	5.10	8.89	41.5	675.	<.496	12.9	<.248	<.099	<.496	<.496	1.50	<.496
DMH-88-457	11	12.1	126.	.193	9.53	.546	3.63	5.41	55.7	.805	14.8	<.245	<.098	<.49	<.49	<.979	<.49
DMH-88-458	12	13.1	149.	.134	9.14	.706	12.5	5.27	42.0	1.81	8.64	.267	<.098	<.489	<.489	<.978	<.489
DMH-88-459	13	17.4	96.7	.074	19.5	.556	6.10	4.41	139.	1.23	68.3	.280	<.099	<.496	<.496	<.992	<.496
DMH-88-460	14	2.64	123.	.015	11.1	.600	23.5	7.40	72.2	1.18	12.3	.339	.126	1.03	<.481	<.962	<.481
DMH-88-461	15	8.29	30.3	.044	11.2	.622	6.75	4.30	47.8	1.67	12.8	.252	<.096	<.479	<.479	<.958	<.479
DMH-88-462	16	10.5	174.	.027	30.4	.926	1.69	11.0	48.4	.565	31.0	<.246	.148	<.492	<.492	1.06	<.492
DMH-88-463	17	.134	42.8	.005	12.9	.180	.574	4.94	5.04	.769	29.7	.256	<.099	<.497	<.497	<.993	<.497
DMH-88-464	18	.114	27.5	.001	14.2	.287	.261	4.43	4.37	.883	18.2	.246	<.097	<.487	<.487	<.975	<.487
DMH-88-465	19	.052	30.2	.002	17.7	.176	.493	4.19	1.48	.694	16.4	.254	<.099	<.495	<.495	<.99	<.495
DMH-88-466	20	.661	111.	.094	13.3	.617	2.78	3.68	36.2	3.08	14.7	.281	.138	<.492	<.492	<.984	<.492
DMH-88-467	21	.391	58.5	.03	11.5	.695	3.51	3.43	19.2	2.17	14.0	.301	<.097	<.485	<.485	<.97	<.485
DMH-88-468	22	4.10	265.	.120	15.2	1.33	4.22	4.95	62.6	3.98	15.1	.263	.098	<.484	<.484	<.967	<.484
DMH-88-469	23	2.47	145.	.346	9.60	1.03	3.66	5.02	39.4	4.33	55.5	.256	<.097	<.486	<.486	<.973	<.486
DMH-88-470	24	.828	833.	.256	13.2	.351	5.38	3.60	33.4	.548	25.1	<.246	<.098	<.491	<.491	<.982	<.491
DMH-88-471	25	.065	306.	.004	10.7	.243	2.66	10.4	10.7	<.499	14.2	.617	.118	2.71	<.499	<.998	<.499
DMH-88-472	26	.057	221.	.002	16.2	2.19	6.06	30.0	13.6	.802	14.7	.368	.170	<.5	<.5	<.999	<.5
DMH-88-473	27	.024	64.0	.002	12.6	1.01	8.39	33.7	3.82	2.90	1005	<.248	1.67	.541	<.497	<.993	<.497
DMH-88-474	28	.141	131.	.029	9.49	.395	3.29	17.5	9.39	1.00	14.2	.252	<.098	1.79	<.49	<.98	<.49
DMH-88-475	29	.038	135.	.001	9.18	1.55	4.36	8.57	44.2	2.32	22.7	.463	<.099	<.497	<.497	<.994	<.497
DMH-88-476	30	.04	96.6	.002	15.1	.132	4.51	2.82	.854	.640	17.6	.266	<.098	<.491	<.491	<.982	<.491

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80624I

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88-477	31	.043	18.7	.001	7.97	.171	4.02	1.57	.904	.798	11.6	.294	<.098	<.492	<.492	<.983	<.492
DMH-88-478	32	.044	25.3	.001	13.8	.399	3.93	4.11	6.10	.898	18.7	.298	<.1	<.498	<.498	<.996	<.498
DMH-88-479	33	.024	125.	.002	5.81	.184	7.11	1.89	6.54	.584	10.0	<.246	<.098	<.492	<.492	<.983	<.492
DMH-88-480	34	.064	113.	.001	16.6	2.65	6.88	6.23	5.21	.922	26.3	<.247	.104	<.493	<.493	4.25	<.493
DMH-88-481	35	.03	21.9	.001	11.8	.478	5.46	3.12	5.93	.558	13.5	<.245	<.098	<.49	<.49	<.98	<.49
DMH-88-482	36	.031	588.	.001	13.1	1.41	17.6	5.18	9.97	<.494	40.7	<.247	<.099	.676	<.494	<.988	<.494
DMH-88-483	37	.037	886.	.001	11.4	.468	11.4	17.1	.432	.779	14.3	<.246	.127	5.00	<.493	<.985	<.493
DMH-88-484	38	.026	256.	.001	19.3	.512	11.8	14.9	.498	.960	39.5	<.244	<.098	1.04	<.488	1.10	<.488
DMH-88 485	26	.642	138.	.083	13.7	4.12	8.05	5.07	46.6	1.88	23.9	<.245	.420	<.49	<.49	<.98	<.49
DMH-88 486	27	.882	164.	.033	15.6	3.48	9.33	5.88	60.4	1.36	24.4	.306	.463	<.495	<.495	<.99	<.495
DMH-88 487	28	.397	48.1	.029	16.5	1.46	4.60	3.96	14.6	.643	30.1	.280	.368	<.492	<.492	<.984	<.492
DMH-88 488	29	4.05	227.	.679	18.6	3.95	12.3	10.0	74.3	2.05	18.9	.358	.413	<.491	<.491	<.982	<.491
DMH-88 489	30	.256	32.0	.014	15.5	.454	5.76	6.56	14.8	1.28	17.2	.486	.335	<.491	<.491	<.981	<.491
DMH-88 491	31	1.74	142.	.109	15.7	2.86	6.48	6.11	61.7	7.61	18.2	.334	.459	<.488	<.488	<.977	<.488
DMH-88 491DUP	32	2.05	420.	.630	11.5	5.72	23.6	5.73	41.3	.863	15.4	.471	.432	<.493	<.493	<.985	<.493
DMH-88 492	33	4.03	3846	1.20	15.9	7.37	364.	8.54	412.	37.7	39.4	2.65	.579	2.08	<.495	2.00	.926
DMH-88 493	34	.866	706.	.062	19.5	7.53	28.0	4.05	156.	.860	29.8	.470	.436	<.495	<.495	<.99	<.495
DMH-88 494	35	.627	596.	.042	9.44	7.74	132.	3.71	135.	4.27	18.5	1.00	.490	2.02	<.49	1.33	.790
DMH-88 495	36	.193	101.	.121	8.40	.979	8.82	5.28	17.0	2.09	19.1	.343	.369	<.494	<.494	<.987	<.494
DMH-88 496	37	6.58	83.5	.250	12.4	5.31	7.21	10.1	73.3	6.27	13.8	.383	.362	<.496	<.496	<.991	<.496
DMH-88 497	38	1.81	138.	.187	14.3	3.38	13.7	6.76	324.	11.6	23.6	.660	.418	<.492	<.492	<.984	<.492
DMH-88 498	39	1.96	625.	.280	13.0	3.20	12.5	4.14	251.	33.9	25.4	.367	.451	<.489	<.489	1.26	<.489
DMH-88 499	40	3.54	154.	.189	15.0	1.43	10.8	5.96	63.0	7.17	16.2	.355	.372	.944	<.494	<.987	<.494
DMH-88 500	41	33.7	34.3	.07	10.0	.648	7.27	7.47	1434	2.19	10.6	.314	.342	<.493	<.493	2.40	.651
DMH-88 501	42	5.36	420.	.06	10.5	1.72	6.61	5.03	80.8	1.79	30.9	.403	.358	<.492	<.492	<.984	<.492
DMH-88 502	43	5.06	20.5	.05	9.28	.559	7.53	11.5	22.4	.956	13.8	.392	.336	.569	<.491	<.981	<.491
DMH-88 503	44	2.35	32.2	.108	12.0	.295	6.58	8.40	21.1	<.492	14.4	<.246	.311	.554	<.492	<.984	<.492
DMH-88 504	45	.05	98.8	.004	13.4	.231	4.58	17.8	6.48	<.494	14.7	<.247	.327	1.66	<.494	<.988	<.494
DMH-88 505	46	<.015	2115	.003	9.30	4.66	4.27	3.22	3.01	3.21	28.5	.495	.566	5.18	<.49	<.98	.508
DMH-88 506	47	.628	500.	.213	14.5	4.22	8.46	5.29	51.6	1.74	13.3	.258	.391	1.04	<.49	<.98	<.49

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-87140B

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88 507	48	.166	262.	.018	20.1	3.35	6.53	5.04	70.8	2.78	23.4	<.244	.326	.885	<.487	<.975	<.487
DMH-88 508	49	<.015	335.	.005	14.5	3.66	22.7	9.43	60.1	1.14	10.3	.350	.365	.588	<.484	<.969	<.484
DMH-88 509	50	<.015	60.3	.003	15.2	.254	4.91	8.90	15.0	<.493	11.7	<.247	.275	.516	<.493	<.986	<.493
DMH-88 510	51	1.61	38.7	.06	11.7	.250	7.20	4.66	6508	1.33	11.7	<.244	.320	<.489	<.489	<.978	<.489
DMH-88 511	52	.731	159.	.029	17.8	.960	4.91	5.74	100.	6.54	14.5	<.243	.334	<.485	<.485	<.971	<.485
DMH-88 512	53	.266	32.9	.039	16.2	.122	4.30	11.3	173.	2.99	16.0	<.246	.263	<.492	<.492	<.984	<.492
DMH-88 513	54	<.015	58.5	.004	17.4	1.83	4.74	11.1	6.55	<.492	21.3	<.246	.306	.932	<.492	<.984	<.492
DMH-88 514	55	<.015	644.	.003	10.4	.324	11.6	17.1	7.00	.725	16.4	<.249	.390	1.91	<.497	<.994	<.497
DMH-88 515	56	<.015	5.80	.002	17.3	<.098	1.40	4.84	1.69	<.489	22.3	<.245	.298	1.65	<.489	<.978	<.489
DMH-88 516	57	<.015	8.75	.003	10.4	<.098	1.99	8.15	2.91	<.492	14.4	<.246	.299	.823	<.492	<.984	<.492
DMH-88 517	58	<.015	3.95	.003	10.3	<.097	1.11	5.19	1.12	<.487	16.1	<.243	.291	1.06	<.487	<.974	<.487
DMH-88 518	59	<.015	2.22	.002	13.0	<.098	1.71	9.25	1.54	<.488	16.4	<.244	.324	.997	<.488	<.977	<.488
DMH-88 519	60	<.015	1.47	.003	11.8	<.098	.896	3.65	.343	<.489	13.0	<.244	.277	<.489	<.489	<.978	<.489
DMH-88 520	61	<.015	7.07	.003	9.41	<.098	1.96	6.40	2.42	<.488	26.5	<.244	.344	1.15	<.488	<.977	<.488
DMH-88 521	1	83.1	342.	3.20	26.5	1.12	9.79	7.42	29.3K	<4.90	<9.80	<2.45	<.98	<4.90	<4.90	24.9	<4.90
DMH-88 522	62	1.72	58.1	.336	9.50	1.49	4,20	12.7	414.	.730	9.93	<.245	.324	<.491	<.491	1.53	<.491
DMH88 523	1	78.1	448.	.664	33.4	<.98	9.08	8.12	20.1K	<4.90	<9.80	<2.45	<.98	<4.90	<4.90	35.2	<4.90
DMH88 524	2	3.07	884.	1.51	31.2	2.95	8.08	24.7	68.0K	<4.76	<9.52	<2.38	<.952	<4.76	<4.76	146.	<4.76

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-807140

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88 600	39	1.05	910.	.067	8.42	.234	8.34	13.0	28.6	1.37	7.41	<.239	<.096	2.00	<.478	<.956	<.478
NW-88 601	40	.015	155.	.002	8.06	.749	3.39	16.8	13.3	2.77	7.09	<.241	<.097	1.48	<.483	<.965	<.483
NW-88 602	41	.053	317.	.051	8.71	1.33	12.7	13.0	30.0	3.89	8.16	<.245	<.098	2.06	<.49	<.98	<.49
NW-88 603	42	<.015	67.9	.003	5.29	<.097	1.84	3.34	2.89	<.484	8.66	<.242	<.097	.744	<.484	<.967	<.484
NW-88 604	43	.446	98.2	.151	6.52	.481	12.6	<.239	30.7	.745	5.57	<.239	<.096	<.479	<.479	<.958	<.479
NW-88 605	44	.566	155.	.095	6.79	.673	4.67	7.72	27.7	.547	6.55	<.248	<.099	1.68	<.495	<.99	<.495
NW-88 606	45	.407	139.	.195	8.14	<.097	10.8	13.5	30.9	1.03	6.98	.676	<.097	1.55	<.484	<.968	<.484
NW-88 607	46	.015	169.	.003	6.52	.521	3.44	11.7	25.1	4.14	5.10	<.241	<.096	.856	<.481	<.962	<.481
NW-88 608	47	<.014	54.9	.003	4.56	<.095	4.10	10.4	6.26	1.43	3.42	<.237	<.095	.847	<.474	<.949	<.474
NW-88 609	48	.520	262.	.426	10.0	.386	12.5	8.50	50.7	2.79	35.6	.298	<.094	.650	<.469	<.937	<.469
NW-88 610	49	<.015	379.	.02	6.62	<.1	3.41	13.5	24.2	<.499	12.7	<.25	.144	3.41	<.499	<.998	<.499
NW-88 611	50	.027	73.8	.02	4.77	.557	3.56	9.27	15.5	10.1	25.9	<.237	<.095	1.20	<.473	<.947	<.473
NW-88 612	51	<.015	220.	.019	11.0	3.14	3.79	10.5	35.8	.731	8.25	.258	<.099	.638	<.497	<.993	<.497
NW-88 613	52	<.014	84.9	.002	5.64	.191	4.03	8.25	6.29	.975	4.38	<.238	<.095	1.09	<.476	<.951	<.476
NW-88 614	53	<.015	157.	.007	5.13	.685	2.58	8.41	21.2	<.492	32.5	<.246	<.098	.851	<.492	<.984	<.492
NW-88 615	54	<.015	83.7	.005	6.93	1.38	7.50	6.00	9.70	1.22	4.60	<.245	<.098	.990	<.49	<.98	<.49
NW-88 616	55	<.014	210.	.01	4.99	.212	1.05	11.5	5.06	.481	115.	<.239	<.096	1.41	<.479	<.958	<.479
NW-88 617	56	.021	29.0	.002	9.52	.788	7.96	10.3	1.81	<.466	6.02	.400	<.093	1.15	<.466	<.931	<.466
NW-88 618	57	1.40	850.	.516	25.6	12.5	12.8	26.5	215.	25.8	11.3	.270	<.098	5.39	<.488	3.38	<.488
NW-88 619	58	1.20	58.8	.036	4.36	<.097	.575	.773	11.8	8.73	11.9	<.242	<.097	<.483	<.483	<.966	<.483
NW-88 620	59	.290	37.0	.043	6.58	.247	1.36	3.28	21.0	1.24	11.9	<.248	<.099	<.496	<.496	<.991	<.496
NW-88 621	60	.542	41.6	.147	5.52	.435	2.49	.447	12.2	2.98	22.3	<.239	<.096	<.479	<.479	<.958	<.479
NW-88 622	61	2.94	116.	.133	6.77	.613	4.42	6.23	59.7	.705	7.27	<.243	<.097	<.486	<.486	<.973	<.486
NW-88 623	62	.450	102.	.005	4.77	.566	1.23	2.22	50.2	8.65	11.4	<.243	<.097	<.486	<.486	<.972	<.486
NW-88 624	63	<.015	147.	.004	4.75	.264	3.66	11.7	11.4	<.493	25.1	<.247	<.099	.809	<.493	<.986	<.493
NW-88 625	64	.212	115.	.007	5.81	.238	4.85	9.07	21.4	.642	30.7	<.246	<.098	<.492	<.492	<.984	<.492
NW-88 626	65	.02	18.9	.007	4.73	.169	1.70	1.20	8.43	2.00	7.37	<.232	<.093	<.464	<.464	<.929	<.464
NW-88 627	66	.103	23.5	.015	4.32	.128	.637	1.53	12.9	1.31	12.6	<.234	<.094	<.469	<.469	<.937	<.469
NW-88 628	67	.131	11.2	.016	4.89	.245	.347	1.74	4.61	2.67	12.9	<.237	<.095	<.475	<.475	<.95	<.475
NW-88 629	68	.293	21.0	.014	4.46	<.099	.510	1.01	7.14	1.97	8.10	<.248	<.099	<.495	<.495	<.99	<.495
NW-88 630	69	<.015	86.3	.01	8.74	.130	4.57	11.8	18.4	<.486	18.6	<.243	<.097	.843	<.486	3.52	<.486

2741 Toledo Street Suite 211 • Torrance, California 90503 • Telephone 213/320-3680
55 Glen Carran Circle • Sparks, Nevada 89431 • Telephone 702/359-6600

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80526C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88 631	70	.027	55.5	.014	4.41	.474	.833	1.96	26.3	1.33	96.4	<.24	<.096	<.481	<.481	<.962	<.481
NW-88 632	71	.119	36.8	.031	6.14	.134	3.97	4.03	12.9	<.481	27.7	<.241	<.096	<.481	<.481	<.962	<.481
NW-88 633	72	.021	85.2	.003	9.63	<.097	2.13	9.71	8.25	<.487	9.86	<.243	<.097	2.13	<.487	<.974	<.487
NW-88 634	73	.076	12.3	.008	5.12	<.1	3.19	2.02	3.77	<.499	8.38	<.249	<.1	<.499	<.499	<.997	<.499
NW-88 635	74	.237	12.7	.007	5.37	.321	.995	1.71	7.70	.979	4.96	<.242	<.097	<.483	<.483	<.966	<.483
NW-88 636	75	.079	213.	.023	9.26	.542	6.69	17.5	31.9	3.76	9.82	<.245	<.098	1.53	<.491	<.981	<.491
NW-88 637	76	.147	10.1	.018	4.88	.115	.616	1.37	5.11	6.71	54.9	<.241	<.096	<.481	<.481	<.962	<.481
NW-88 638	77	.568	9.82	.017	2.84	.171	.457	.402	6.31	1.38	4.69	<.243	<.097	<.485	<.485	<.971	<.485
NW-88 639	78	.026	6.98	.011	4.72	<.099	.212	.502	2.93	1.06	6.17	<.247	<.099	<.495	<.495	<.989	<.495
NW-88 640	79	.379	10.7	.006	3.89	<.096	.860	.855	5.98	<.478	8.33	<.239	<.096	<.478	<.478	<.957	<.478
NW-88 641	80	.07	65.7	.045	4.60	1.11	1.87	.890	23.6	10.8	8.11	<.241	<.097	<.483	<.483	<.965	<.483
NW-88 642	81	.061	20.6	.019	5.26	.190	.816	.905	13.4	2.36	7.79	<.241	<.096	<.481	<.481	<.962	<.481
NW-88 643	82	<.015	3.30	.004	5.58	<.098	.227	.980	1.69	<.492	4.94	<.246	<.098	<.492	<.492	<.984	<.492
NW-88 644	83	.205	7.71	.009	4.52	<.099	.152	<.248	4.86	<.496	5.26	<.248	<.099	<.496	<.496	<.991	<.496
NW-88 645	84	.378	26.1	.035	4.73	.268	.405	.975	12.2	1.60	6.58	<.238	<.095	<.476	<.476	<.951	<.476
NW-88 646	85	.460	266.	.053	6.30	.794	2.32	1.29	111.	18.9	257.	<.246	<.099	<.493	<.493	1.14	<.493
NW-88 647	86	<.015	27.8	.003	3.94	<.098	1.13	1.13	2.88	<.489	10.0	<.244	<.098	<.489	<.489	<.978	<.489
NW-88 648	87	<.015	39.3	.004	4.37	<.1	1.67	1.33	4.95	<.498	9.43	<.249	<.1	<.498	<.498	<.996	<.498
NW-88 649	88	.131	43.0	.013	6.85	<.095	2.76	5.56	12.6	.673	7.84	<.238	<.095	.960	<.477	<.953	<.477
NW-88 650	89	.128	12.3	.005	5.39	<.097	.427	1.10	4.98	1.20	7.62	<.241	<.097	<.483	<.483	<.965	<.483
NW-88 651	90	<.015	5.35	.002	6.30	<.097	1.26	1.30	1.35	<.486	6.82	<.243	<.097	<.486	<.486	<.973	<.486
NW-88 652	91	<.015	5.27	.004	5.04	<.098	1.72	1.29	1.20	<.49	5.93	<.245	<.098	<.49	<.49	<.979	<.49
NW-88 653	92	<.015	4.13	.002	4.56	<.1	.408	1.22	1.34	<.5	6.67	<.25	<.1	<.5	<.5	<1.	<.5
NW-88 654	93	<.015	4.55	.002	4.49	<.1	.450	.982	1.33	<.498	8.87	<.249	<.1	<.498	<.498	<.996	<.498
NW-88 655	94	.02	6.50	.008	5.35	<.098	.936	1.15	3.03	<.491	6.77	<.245	<.098	<.491	<.491	<.981	<.491
NW-88 656	95	<.015	3.84	.002	6.71	<.099	.329	.915	2.73	<.493	7.93	<.246	<.099	<.493	<.493	<.985	<.493
NW-88 657	96	<.014	13.0	.002	6.17	.182	.917	1.11	4.57	<.481	6.72	<.241	<.096	<.481	<.481	<.962	<.481
NW-88 658	97	<.014	3.28	.005	5.29	<.095	1.20	1.40	.648	<.473	6.10	<.236	<.095	<.473	<.473	<.945	<.473
NW-88 659	98	.047	8.23	.006	5.11	<.097	.614	.827	1.77	.750	8.81	<.241	<.097	<.483	<.483	<.965	<.483
NW-88 660	99	<.015	2.50	.003	3.64	<.097	.436	.704	.535	<.484	3.96	<.242	<.097	<.484	<.484	<.967	<.484

2741 Toledo Street Suite 211 • Torrance, California 90503 • Telephone 213/320-3680
55 Glen Carran Circle • Sparks, Nevada 89431 • Telephone 702/359-6600

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80526C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88 661	100	<.014	20.1	.004	12.6	<.095	4.75	1.83	8.36	<.476	29.3	<.238	<.095	<.476	<.476	<.952	<.476
NW-88 662	101	.041	11.4	.002	4.75	<.097	1.21	1.18	6.26	<.487	6.82	<.244	<.097	<.487	<.487	<.975	<.487
NW-88 663	102	.121	66.2	.007	7.49	.718	7.87	1.00	33.1	1.72	10.4	<.232	<.093	<.463	<.463	<.927	<.463
NW-88 664	103	.027	100.	.004	9.75	.417	2.59	8.76	6.73	<.472	7.80	<.236	<.094	2.67	<.472	<.943	<.472
NW-88 665	104	.143	53.4	.008	8.94	.482	8.74	14.7	7.18	<.469	9.26	<.235	<.094	2.63	<.469	<.938	<.469
NW-88 666	105	.063	353.	.009	6.05	<.1	3.14	14.4	17.4	2.24	5.43	<.249	<.1	1.71	<.499	<.997	<.499
NW-88 667	106	1.71	167.	.236	6.95	1.72	1.67	2.66	69.5	16.6	59.9	<.234	.336	<.468	<.468	1.01	<.468
NW-88 668	107	.202	20.0	.019	6.04	.119	5.46	1.01	8.48	1.04	6.71	<.245	.163	<.49	<.49	<.979	<.49
NW-88 669	108	1.50	38.2	.029	2.57	.427	2.07	1.17	26.4	1.13	24.8	<.239	<.096	<.478	<.478	<.957	<.478
NW-88 670	109	.502	14.2	.021	1.41	.260	.559	.866	9.79	1.04	2.52	<.249	<.1	<.499	<.499	<.997	<.499
NW-88 671	110	.102	3.69	.002	.736	<.1	.134	.407	3.42	<.498	1.22	<.249	<.1	<.498	<.498	<.996	<.498
NW-88 672	111	.181	5.19	.009	1.21	<.094	.310	.572	2.21	<.47	1.10	<.235	<.094	<.47	<.47	<.941	<.47
NW-88 673	112	.036	5.58	.002	1.51	<.099	1.85	.771	1.90	.860	1.61	<.248	<.099	<.495	<.495	<.99	<.495
NW-88 674	113	.018	10.5	.002	.690	<.094	.711	.806	2.88	1.75	1.35	<.235	<.094	<.471	<.471	<.942	<.471
NW-88 675	114	<.014	6.63	.002	1.02	<.094	1.52	.801	2.34	<.47	1.90	<.235	<.094	<.47	<.47	<.94	<.47
NW-88 676	115	<.014	19.9	.002	1.51	.349	1.14	1.11	6.26	<.483	5.21	<.242	<.097	<.483	<.483	<.966	<.483
NW-88 677	116	<.015	8.01	.001	2.56	<.097	2.64	1.04	3.17	.539	28.1	<.243	<.097	<.486	<.486	<.972	<.486
NW-88 678	117	4.17	515.	.261	4.16	1.42	13.0	13.7	89.1	12.5	6.61	<.236	<.095	5.09	<.473	1.07	<.473
NW-88 679	118	.169	23.2	.002	1.93	<.096	2.63	1.31	3.36	<.478	2.84	<.239	<.096	<.478	<.478	<.957	<.478
NW-88 680	119	.018	28.0	.001	1.38	<.098	.530	.944	4.41	<.491	7.06	<.246	<.098	<.491	<.491	<.982	<.491
NW-88 681	120	.528	110.	.058	3.59	.264	5.84	9.39	28.8	<.499	7.58	.436	<.1	2.42	<.499	<.997	<.499
NW-88 682	121	.106	123.	.003	1.58	.671	.725	2.15	25.3	6.64	78.2	<.24	<.096	<.479	<.479	<.959	<.479
NW-88 683	122	.071	64.3	.019	4.69	.324	5.16	14.5	6.24	<.483	4.34	<.242	<.097	2.36	<.483	<.966	<.483
NW-88 684	123	1.77	597.	.529	3.49	<.099	10.2	12.5	17.5	2.05	2.32	<.247	<.099	2.26	<.494	<.987	<.494
NW-88 685	124	.948	98.7	.125	2.23	.384	1.36	2.94	31.5	1.01	17.9	<.243	<.097	<.486	<.486	<.972	<.486
NW-88 686	125	2.49	94.9	.132	6.52	.100	16.9	2.53	37.5	.798	7.99	.275	<.097	<.485	<.485	1.02	<.485
NW-88 687	126	.139	25.2	.016	1.89	<.096	1.88	.792	7.27	.717	5.60	<.239	<.096	<.479	<.479	<.958	<.479
NW-88 688	127	.227	43.5	.003	1.95	.525	1.05	1.46	8.48	<.488	15.9	<.244	<.098	<.488	<.488	<.976	<.488
NW-88 689	128	.041	347.	.043	3.78	.104	2.78	13.7	15.9	.604	3.03	<.238	<.095	1.92	<.476	<.952	<.476
NW-88 690	129	1.99	218.	.159	2.24	.942	1.81	1.02	23.8	1.97	10.5	<.233	<.093	<.465	<.465	<.93	<.465

2741 Toledo Street Suite 211 • Torrance, California 90503 • Telephone 213/320-3680
55 Glen Carran Circle • Sparks, Nevada 89431 • Telephone 702/359-6600

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80526C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88 691	130	.794	75.9	.104	1.84	.544	1.66	.980	31.6	3.03	10.6	<.246	<.098	<.492	<.492	<.984	<.492
NW-88 692	131	.015	39.2	.001	3.11	<.099	2.43	18.2	2.85	.815	26.3	<.247	<.099	.933	<.494	<.988	<.494
NW-88 693	132	<.014	23.3	.004	1.45	<.093	1.76	1.62	2.10	.810	2.87	<.232	<.093	<.465	<.465	<.929	<.465
NW-88 694	133	<.015	52.0	.003	3.61	<.1	3.99	19.0	4.40	<.498	34.4	<.249	.153	1.15	<.498	<.996	<.498
NW-88 695	134	<.014	236.	.003	2.38	<.095	4.47	15.9	4.85	1.22	22.5	<.238	<.095	1.01	<.477	<.953	<.477
NW-88 696	135	.056	30.9	.003	.834	.399	.472	.700	5.51	<.492	4.62	<.246	<.098	<.492	<.492	<.983	<.492
NW-88 697	136	<.014	130.	.002	.898	.263	.419	.969	11.7	5.27	4.17	<.241	<.096	<.482	<.482	<.964	<.482
NW-88 698	137	.025	42.8	.006	3.64	.340	6.45	3.60	4.35	.622	69.7	<.248	<.099	<.496	<.496	<.992	<.496
NW-88 699	138	.039	93.1	.004	4.16	.853	3.11	3.23	13.4	3.27	4.36	<.237	<.095	<.473	<.473	<.947	<.473
NW-88 700	139	<.015	2.63	.004	3.87	<.097	.302	1.66	.721	<.485	8.66	<.243	<.097	<.485	<.485	<.971	<.485
NW-88 701	140	<.014	345.	.003	7.80	.665	3.43	9.41	17.1	<.479	7.83	<.239	<.096	1.96	<.479	<.958	<.479
NW-88 702	141	<.015	20.9	.003	6.22	<.1	4.62	16.2	2.74	.515	44.5	<.25	<.1	1.52	<.5	<.999	<.5
NW-88 703	142	<.015	574.	.003	7.61	<.098	10.8	7.71	19.3	<.488	8.45	<.244	.124	3.48	<.488	<.976	<.488
NW-88 704	143	<.014	454.	.004	8.57	.460	17.1	11.9	23.5	<.479	16.1	<.24	<.096	3.63	<.479	<.959	<.479
NW-88 705	144	<.014	26.4	.003	4.95	.160	3.89	1.29	2.61	.588	9.17	<.239	<.096	<.479	<.479	<.958	<.479
NW-88 706	145	<.014	9.74	.002	6.20	.104	14.4	1.30	1.15	<.468	4.10	.261	<.094	<.468	<.468	<.935	<.468
NW-88 707	146	<.014	527.	.002	13.5	.600	4.06	12.6	50.2	.987	32.2	<.24	<.096	1.85	<.48	<.96	<.48
NW-88 708	147	<.014	5.30	.001	4.08	<.096	2.23	.938	.787	<.479	3.76	<.24	<.096	<.479	<.479	<.959	<.479
NW-88 709	148	.02	8.95	.003	6.12	<.098	.957	2.08	2.23	<.491	15.4	<.245	<.098	<.491	<.491	<.981	<.491
NW-88 710	149	<.014	10.2	.003	3.68	.142	1.03	1.67	2.23	<.477	4.69	<.238	<.095	<.477	<.477	<.953	<.477
NW-88 711	150	<.014	13.6	.005	7.72	<.096	1.94	1.59	2.77	1.07	7.89	<.239	<.096	<.478	<.478	<.955	<.478
NW-88 712	151	.015	11.0	.002	7.42	.126	3.36	1.45	2.54	<.478	7.29	<.239	<.096	<.478	<.478	<.955	<.478
NW-88 713	152	<.014	11.2	.002	7.20	<.096	4.44	.722	2.62	1.37	6.02	<.24	<.096	<.479	<.479	<.959	<.479
NW-88 714	153	<.014	41.1	.002	3.48	.191	.409	1.09	4.17	.677	8.83	<.242	<.097	<.483	<.483	<.966	<.483
NW-88 715	108	1.41	583.	.517	5.49	1.08	2.14	2.91	85.2	1.09	118.	<.247	.215	<.493	<.493	1.03	<.493
NW-88 716	109	.156	73.8	.012	8.18	.475	4.20	1.76	20.5	2.46	13.2	<.239	.101	<.478	<.478	1.03	<.478
NW-88 717	110	.176	280.	.230	5.78	.835	.336	1.81	18.5	.994	16.2	<.247	.211	<.494	<.494	<.987	<.494
NW-88 718	111	.093	70.1	.025	4.69	.200	1.12	2.30	11.8	.861	19.1	<.247	.140	<.495	<.495	<.989	<.495
NW-88 719	112	.029	95.5	.007	10.9	.192	2.81	21.3	9.87	.576	57.6	<.248	.168	.652	<.495	<.99	<.495
NW-88 720	113	.042	519.	.013	8.94	.836	3.19	16.7	7.23	1.88	120.	.275	.288	.681	<.488	<.977	<.488

2741 Toledo Street Suite 211 • Torrance, California 90503 • Telephone 213/320-3680
55 Glen Carran Circle • Sparks, Nevada 89431 • Telephone 702/359-6600

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80526C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88 721	114	.075	1521	.008	9.31	.157	2.99	16.0	54.0	1.18	20.9	<.247	.253	4.14	<.493	<.986	<.493
NW-88 722	115	4.35	201.	.182	5.22	.101	7.89	1.23	90.7	.682	8.47	<.248	.217	<.496	<.496	<.991	<.496
NW-88 723	116	2.80	387.	.693	9.35	3.17	10.0	7.95	205.	9.80	14.3	<.241	.253	.950	<.482	<.964	<.482
NW-88 724	117	.630	84.1	.071	5.35	.476	6.48	1.94	41.6	2.96	7.68	<.246	.125	<.492	<.492	<.983	<.492
NW-88 725	118	.343	179.	.05	7.55	.965	2.99	1.10	13.7	1.15	23.6	<.248	.160	<.496	<.496	<.992	<.496
NW-88 726	119	.03	109.	.002	5.99	<.099	3.37	16.0	5.47	.837	33.1	<.247	.205	.884	<.494	<.987	<.494
NW-88 727	120	.022	48.4	.002	8.32	<.098	2.10	15.3	2.29	2.80	266.	<.245	.155	.981	<.491	1.21	<.491
NW-88 728	121	.016	161.	.002	2.97	<.099	2.77	17.3	4.74	.692	43.8	<.248	.198	.967	<.497	<.993	<.497
NW-88 729	122	<.015	2353	.009	11.9	<.099	4.25	3.79	12.0	<.495	14.5	<.247	.374	4.91	<.495	1.20	<.495
NW-88 730	123	6.25	116.	.039	14.8	.349	7.25	5.14	24.9	.874	28.1	<.242	.231	<.485	<.485	<.97	<.485
NW-88 731	124	.06	35.5	.011	4.20	<.098	.782	1.06	7.48	.795	6.02	<.246	<.098	<.492	<.492	<.984	<.492
NW-88 732	125	20.0	2794	3.82	18.8	.883	4.44	12.8	131.	.827	24.8	<.249	.243	<.497	<.497	<.994	<.497
NW-88 733	126	.910	250.	.250	8.05	.589	3.10	1.62	39.1	55.5	22.6	<.241	.192	.481	<.481	<.962	<.481
NW-88 734	127	.133	47.0	.007	6.30	.111	6.26	1.23	8.86	1.15	8.41	<.239	.180	<.477	<.477	<.954	<.477
NW-88 735	128	.015	85.0	.018	3.55	<.1	.330	1.41	2.90	1.08	4.43	<.25	.117	<.499	<.499	<.998	<.499
NW-88 736	129	.017	81.0	.002	10.1	.151	1.95	19.3	2.89	.905	76.9	<.242	.243	.758	<.483	<.966	<.483
NW-88 737	130	<.015	309.	.001	6.39	<.098	2.43	15.3	2.18	<.489	58.9	<.245	.263	1.65	<.489	<.978	<.489
NW-88 738	131	.116	93.4	.01	6.01	<.096	.441	2.79	13.9	3.35	8.23	<.239	.109	<.478	<.478	<.955	<.478
NW-88 739	132	.140	70.8	.012	5.25	<.098	1.02	2.25	8.39	2.09	8.61	<.245	.135	<.491	<.491	<.981	<.491
NW-88 740	133	.019	27.9	.007	5.59	<.098	.337	.766	10.9	1.13	5.41	<.245	<.098	<.491	<.491	<.981	<.491
NW-88 741	134	.041	29.4	.001	6.82	<.1	4.54	19.5	1.42	.660	39.4	<.249	.110	.866	<.498	<.995	<.498
NW-88 742	135	.02	77.9	.002	10.6	<.097	3.16	21.5	3.08	.598	46.0	<.243	.165	.813	<.486	<.973	<.486
NW-88 743	136	<.015	128.	.001	6.97	<.098	5.50	23.6	6.23	1.11	45.7	<.245	.202	.872	<.489	<.978	<.489
NW-88 744	137	<.014	423.	.003	8.39	<.096	2.49	22.8	15.1	.602	42.0	<.241	.195	.510	<.482	<.964	<.482
NW-88 745	138	.019	253.	.001	8.51	<.098	4.12	22.0	5.21	1.21	42.2	<.246	.209	.933	<.492	<.983	<.492
NW-88 746	139	<.015	53.5	.002	9.77	<.1	3.38	17.5	5.47	.721	45.7	<.25	.170	.932	<.499	<.998	<.499
NW-88 747	140	.029	27.1	.001	5.40	<.096	3.61	22.1	1.22	.640	34.2	<.239	.166	1.16	<.478	<.955	<.478
NW-88 748	141	<.015	102.	.002	7.96	<.099	5.17	27.4	1.46	<.496	34.2	<.248	.365	1.45	<.496	2.99	.642
NW-88 749	142	<.015	7.76	.001	5.77	<.099	.479	.795	1.56	1.00	4.07	<.247	<.099	<.494	<.494	<.987	<.494
NW-88 750	143	<.015	18.6	.002	4.16	<.1	.533	1.30	1.08	.861	9.01	<.25	<.1	<.499	<.499	<.998	<.499

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80607C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88 751	144	.023	13.6	.001	2.06	.144	1.18	1.80	1.92	2.24	5.38	<.25	.125	<.499	<.499	<.998	<.499
NW-88 752	145	.034	107.	.004	8.58	.123	4.76	22.0	4.48	2.01	77.1	.332	.219	.919	<.496	<.992	<.496
NW-88 753	146	.804	293.	.09	28.5	1.07	4.30	2.09	54.0	21.1	477.	<.249	.448	1.28	<.498	1.06	.625
NW-88 754	147	.035	40.4	.002	3.55	.697	.856	1.71	4.15	2.66	35.8	<.242	.204	<.483	<.483	<.966	<.483
NW-88 755	148	2.09	1179	.160	7.61	.633	6.00	14.8	39.0	2.24	41.0	.477	.335	1.31	<.497	<.994	<.497
NW-88 756	149	.194	495.	.033	8.27	.248	2.86	11.6	18.7	3.05	31.6	.362	.227	.833	<.498	<.995	<.498
NW-88 757	150	.396	140.	.141	6.04	.476	3.54	3.25	30.0	3.57	13.6	.326	.226	.608	<.5	<1.	<.5
NW-88 758	151	.063	34.3	.002	3.77	.203	1.13	1.36	6.50	3.10	7.15	.260	.146	<.49	<.49	<.979	<.49
NW-88 759	152	2.67	413.	.239	12.4	1.20	11.3	4.90	33.4	3.47	13.2	.408	.230	1.45	<.498	<.995	<.498
NW-88 760	153	.03	192.	.005	6.44	.140	3.92	20.2	6.60	2.15	64.8	<.245	.209	1.57	<.49	<.979	<.49
NW-88 761	154	.058	177.	.011	1.96	.534	1.66	1.68	28.7	5.60	29.6	<.239	.186	<.478	<.478	<.955	<.478
NW-88 762	155	.199	545.	.008	4.72	.400	1.83	3.57	24.4	2.92	35.4	.306	.284	.598	<.487	<.975	<.487
NW-88 763	156	.410	783.	.158	6.89	.776	4.84	2.16	29.4	2.86	16.2	.337	.250	.682	<.491	<.982	<.491
NW-88 764	157	.034	33.0	.003	9.08	.157	4.98	20.5	4.64	2.29	55.8	.391	.192	1.61	<.495	<.99	<.495
NW-88 765	158	.086	24.0	.01	4.39	.174	1.94	2.97	5.52	2.35	7.87	<.243	.169	<.486	<.486	<.973	<.486
NW-88 766	159	.045	36.2	.003	5.46	.215	1.03	1.28	10.6	3.40	6.00	<.243	.140	<.486	<.486	<.973	<.486
NW-88 767	160	.899	643.	.411	8.66	.507	9.39	5.60	59.0	2.30	25.2	.466	.327	1.05	<.493	<.985	<.493
NW-88 768	161	.129	560.	.012	9.48	.292	4.83	14.6	30.1	2.41	21.6	.425	.207	1.31	<.495	<.99	<.495
NW-88 769	162	.743	1829	.087	11.2	2.05	5.72	14.6	111.	4.30	25.1	.325	.283	2.40	<.494	<.987	<.494
NW-88 770	163	.431	906.	.069	5.98	.866	7.04	16.8	26.7	2.22	9.81	.447	.273	1.84	<.495	<.99	<.495
NW-88 771	164	3.36	713.	1.62	9.43	.593	10.4	7.88	45.9	2.52	19.1	.640	.338	.911	<.492	<.984	<.492
NW-88 772	165	.412	258.	.074	7.17	2.85	15.8	5.88	120.	6.61	18.5	.396	.273	.813	<.481	<.962	<.481
NW-88 773	166	3.30	1097	1.19	11.6	.753	6.39	7.84	38.5	2.94	25.9	.501	.326	1.06	<.495	<.99	<.495
NW-88 774	167	.034	424.	.004	6.07	<.1	9.03	16.6	41.8	3.15	42.2	<.25	.205	3.45	<.5	1.23	<.5
NW-88 775	168	.073	596.	.009	11.6	.462	3.51	17.8	28.6	3.69	6.96	.303	.218	3.97	<.497	<.994	<.497
NW-88 776	169	.809	839.	.076	8.32	.309	12.9	8.25	75.2	2.45	36.1	.995	.335	1.83	<.489	<.978	<.489
NW-88 777	170	.04	117.	.002	8.69	.209	4.21	16.4	10.1	2.71	78.0	.563	.219	1.66	<.487	<.975	<.487
NW-88 778	171	2.14	487.	.184	7.82	1.44	9.53	14.2	80.4	3.20	32.2	.393	.243	3.07	<.479	<.958	<.479
NW-88 779	172	.04	24.4	.002	11.9	<.098	3.07	19.0	3.73	3.14	124.	.312	.255	1.68	<.49	<.98	<.49
NW-88 780	173	.043	128.	.001	7.07	.219	7.20	8.30	13.5	2.85	10.0	.608	.197	1.88	<.493	<.985	<.493

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80607C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88 781	174	<.015	5.88	.002	1.29	<.098	.386	1.08	.435	.873	9.23	1.66	.104	<.489	<.489	<.978	<.489
NW-88 782	175	<.015	39.0	.001	1.63	<.099	5.03	3.43	1.71	.709	2.39	<.248	.159	.924	<.497	<.993	<.497
NW-88 783	176	.052	13.3	.002	6.86	.401	2.98	19.7	1.34	18.1	126.	<.242	.365	1.27	<.484	<.969	<.484
NW-88 784	177	<.015	14.8	.001	6.58	<.099	5.37	15.6	1.00	.786	40.6	.481	.119	1.03	<.496	<.992	<.496
NW-88 785	178	.019	9.39	.002	2.40	<.095	1.64	10.2	.557	.797	32.9	<.237	.104	.556	<.473	<.946	<.473
NW-88 786	179	.025	25.9	.003	6.40	<.098	7.75	2.96	3.51	1.55	4.75	.282	.129	1.20	<.488	<.976	<.488
NW-88 787	180	.042	18.2	.001	6.50	<.095	3.48	11.5	.910	.856	61.7	.354	.234	1.19	<.477	<.954	<.477
NW-88 788	181	.029	22.5	.001	4.11	<.099	4.75	12.2	2.44	1.16	45.0	<.247	.177	1.50	<.494	<.987	<.494
NW-88 789	182	.340	141.	.014	4.09	.167	3.64	11.2	23.4	1.34	4.42	<.242	.192	1.35	<.483	<.966	<.483
NW-88 790	183	.036	72.3	.001	5.45	.368	8.41	8.74	6.93	1.14	4.07	.264	.214	1.19	<.486	<.973	<.486
NW-88 791	184	.059	211.	.003	6.23	<.095	2.65	7.46	11.7	1.02	32.1	<.237	.235	2.83	<.473	<.947	<.473
NW-88 792	185	<.015	108.	<.0005	5.66	.990	4.70	4.91	7.85	1.00	4.22	<.242	.189	1.65	<.484	<.967	<.484
NW-88 793	186	.033	46.9	.002	6.07	1.50	3.10	5.58	3.97	.938	11.3	<.243	.260	.640	<.487	<.974	<.487
NW-88 794	187	<.014	49.9	.001	7.38	.268	2.33	12.7	2.21	1.12	64.8	<.239	.181	2.03	<.478	<.957	<.478
NW-88 795	188	.029	2.23	.001	5.81	<.099	4.76	4.86	<.246	1.21	51.8	.277	.176	2.97	<.493	<.985	<.493
NW-88 796	189	.019	9.43	.001	5.22	<.099	2.34	9.43	.329	1.05	47.9	<.248	.147	3.59	<.496	<.991	<.496
NW-88 797	190	.025	1.45	.001	5.33	<.1	4.46	5.82	<.249	.935	52.6	<.249	.182	5.21	<.498	<.996	<.498
NW-88 798	191	.043	44.5	.003	5.28	<.099	5.75	11.1	3.29	.862	26.6	.305	.139	.925	<.494	<.988	<.494
NW-88 799	192	.018	11.7	.001	4.85	<.097	.387	1.85	.523	.781	7.30	<.241	.114	<.483	<.483	<.965	<.483
NW-88 800	193	.025	6.32	.001	5.58	<.097	5.11	10.0	.308	.735	41.2	.313	.129	1.58	<.484	<.969	<.484
NW-88 801	194	<.014	9.24	.002	3.27	<.096	1.67	1.83	.679	1.21	9.63	<.241	.174	<.482	<.482	<.963	<.482
NW-88 802	195	.503	160.	.046	1.74	.107	1.30	1.03	5.97	1.04	6.43	<.25	.192	<.499	<.499	<.998	<.499
NW-88 803	196	1.48	174.	.059	5.89	<.097	2.20	2.83	12.3	1.12	11.0	<.242	.164	<.485	<.485	<.97	<.485
NW-88 804	197	.015	6.44	<.0005	3.28	<.099	.416	1.27	.545	1.29	6.48	<.248	<.099	<.496	<.496	<.992	<.496
NW-88 805	198	.077	20.7	.004	4.90	<.095	2.00	6.95	2.79	1.16	45.8	<.237	.208	1.96	<.475	<.95	<.475
NW-88 806	199	.199	13.4	.002	1.12	<.099	.436	.931	1.29	2.40	5.98	<.248	.102	<.496	<.496	<.992	<.496
NW-88 807	200	.229	91.6	.017	2.45	.130	2.93	2.66	4.35	1.19	23.2	<.239	.164	<.479	<.479	<.958	<.479
NW-88 808	201	.068	129.	.001	3.69	.145	.641	2.73	6.57	2.73	13.8	<.237	.174	<.473	<.473	<.946	<.473
NW-88 809	202	.236	292.	.027	3.88	.164	1.68	6.10	8.35	2.16	18.0	<.248	.272	<.496	<.496	<.992	<.496
NW-88 810	203	.02	4.42	.002	2.56	<.099	2.01	12.7	.622	1.07	30.6	.257	.161	1.40	<.497	<.993	<.497

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80607C

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88 811	204	.118	32.7	.002	5.75	.118	1.62	1.42	1.53	1.27	9.69	<.248	.152	<.497	<.497	<.993	<.497
NW-88 812	205	.359	11.5	.003	1.19	.123	1.14	1.26	1.87	1.94	6.34	<.238	.126	<.477	<.477	<.953	<.477
NW-88 813	206	.022	15.9	.002	4.91	<.098	.581	2.02	.465	1.31	8.43	<.245	.113	<.49	<.49	<.979	<.49
NW-88 814	207	.033	94.3	.004	2.17	<.096	.670	3.96	2.17	1.20	7.57	<.239	.162	<.478	<.478	<.956	<.478
NW-88 815	208	.034	300.	.005	3.08	<.098	.561	2.81	3.42	1.35	13.5	<.245	.223	<.49	<.49	<.98	<.49
NW-88 816	209	<.014	16.6	.001	.732	<.095	.400	.833	.488	1.21	3.06	<.237	.117	<.475	<.475	<.95	<.475
NW-88 817	210	.019	29.2	.001	1.76	<.096	.379	1.09	.535	.944	5.35	<.24	.154	<.48	<.48	<.96	<.48
NW-88 818	211	.045	90.9	.002	2.55	<.097	1.26	4.28	1.51	.846	8.45	.243	.222	<.486	<.486	<.972	<.486
NW-88 819	212	.077	117.	.006	4.67	.133	10.1	3.11	5.07	1.33	13.4	.341	.234	<.493	<.493	<.986	<.493
NW-88 820	213	.062	51.6	.006	2.51	<.098	.327	1.37	1.79	1.04	10.0	<.244	.165	<.489	<.489	<.978	<.489
NW-88 821	214	.055	20.3	.001	1.03	<.097	.678	1.23	.903	1.16	7.81	1.40	.154	<.486	<.486	<.973	<.486
NW-88 822	215	.016	7.60	.001	1.84	<.097	1.25	3.15	.353	1.15	16.0	.380	.169	<.486	<.486	<.973	<.486
NW-88 823	216	.026	3.32	.001	2.97	<.1	2.04	14.3	<.25	.963	26.7	.280	.184	<.499	<.499	<.998	<.499
NW-88 824	217	.620	200.	.033	3.60	.098	10.7	1.67	54.5	13.0	254.	<.242	.292	.729	<.485	.987	.503
NW-88 825	218	.456	57.0	.079	3.25	.817	7.87	1.92	53.9	3.53	5.58	<.249	.275	<.497	<.497	<.994	<.497
NW-88 826	219	.215	90.8	.016	7.22	.207	11.3	2.12	23.6	2.61	7.16	.291	.199	.766	<.482	<.964	<.482
NW-88 827	220	.369	120.	.08	8.01	.832	6.30	3.13	53.6	4.83	17.7	<.236	.259	<.472	<.472	<.944	<.472
NW-88 828	221	2.08	329.	.250	6.14	1.57	19.1	3.85	73.1	1.58	15.6	.395	.316	<.491	<.491	<.982	<.491
NW-88 829	222	2.05	471.	.406	5.45	.331	6.37	2.10	11.5	1.40	6.22	<.245	.328	<.49	<.49	<.98	<.49
NW-88 830	223	24.9	306.	.392	8.85	1.01	13.3	7.47	47.7	1.38	15.7	.391	.298	<.487	<.487	1.09	<.487
NW-88 831	224	5.05	800.	.815	7.39	.478	8.94	3.10	17.8	1.12	11.1	.379	.351	<.498	<.498	<.996	<.498
NW-88 832	225	2.99	1277	.243	6.88	3.37	29.3	5.55	131.	3.10	16.6	.735	.456	<.492	<.492	<.984	<.492
NW-88 833	226	.041	224.	.004	3.55	.138	4.09	8.18	21.2	1.19	33.4	.548	.234	.562	<.489	<.978	<.489
NW-88 834	227	1.19	372.	.056	6.47	3.15	15.0	5.49	98.2	6.11	39.5	.412	.323	1.81	<.484	<.968	<.484
NW-88 835	228	.287	142.	.093	3.36	1.42	4.75	2.26	55.6	2.04	5.45	<.242	.247	<.484	<.484	<.969	<.484
NW-88 836	229	.593	239.	.086	5.20	.469	17.6	3.89	27.9	2.88	20.6	.398	.321	<.494	<.494	<.988	<.494
NW-88 837	230	1.06	772.	.550	6.33	1.25	9.51	4.10	137.	3.21	22.1	.285	.345	.689	<.486	<.972	<.486
NW-88 838	231	.329	374.	.022	5.31	3.23	9.78	2.69	135.	3.24	90.4	<.237	.345	.701	<.475	<.95	<.475

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-8920WA

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88-839	39	.038	84.8	.03	10.3	.613	5.79	5.64	54.4	14.2	12.9	<.245	<.098	<.489	<.489	<.978	<.489
NW-88-840	40	.017	11.9	.001	8.48	.767	3.61	17.1	.751	.491	6.63	<.244	<.098	5.67	<.488	<.976	<.488
NW-88-841	41	.027	20.6	<.0005	10.2	.228	8.09	7.36	.476	<.488	17.8	<.244	<.098	3.39	<.488	<.976	<.488
NW-88-842	42	.046	4.51	<.0005	9.68	.210	2.33	6.32	1.97	<.484	11.2	<.242	<.097	1.69	<.484	<.968	<.484
NW-88-843	43	.023	1.27	<.0005	5.51	<.098	.596	2.79	<.244	<.488	9.17	<.244	<.098	.877	<.488	<.976	<.488
NW-88-844	44	.037	2.21	.001	9.97	<.097	2.46	4.99	<.242	<.485	10.4	<.242	<.097	2.00	<.485	<.97	<.485
NW-88-845	45	<.015	39.9	.001	8.55	1.37	59.8	11.0	<.246	<.493	12.2	<.246	<.099	3.13	<.493	<.985	<.493
NW-88-846	46	.034	41.4	<.0005	9.20	9.81	13.7	4.62	.383	<.486	38.3	<.243	<.097	2.45	<.486	<.973	<.486
NW-88-847	47	.055	318.	.002	13.4	3.53	5.60	14.1	21.3	.828	9.10	.278	<.098	.659	<.491	<.981	<.491
NW-88-848	48	.033	471.	<.0005	9.42	.194	2.96	5.36	21.7	.668	10.3	<.244	<.098	1.92	<.488	<.977	<.488
NW-88-849	49	<.015	81.2	.002	5.13	.303	2.69	6.26	7.25	<.487	5.21	<.243	<.097	1.03	<.487	<.974	<.487
NW-88-850	50	.022	51.6	.002	5.86	.236	9.70	2.41	1.95	<.486	16.9	1.94	<.097	<.486	<.486	<.973	<.486
NW-88-851	51	.072	8.37	.001	10.8	<.098	2.76	8.75	.387	<.491	138.	<.245	.204	<.491	<.491	<.981	<.491
NW-88-852	52	.03	10.2	.001	9.48	<.097	3.28	2.68	.505	.511	17.4	<.243	<.097	<.485	<.485	<.971	<.485
NW-88-853	53	.021	1.93	.002	9.02	<.099	3.07	1.68	<.246	<.493	18.2	<.246	<.099	<.493	<.493	<.985	<.493
NW-88-854	54	.019	29.4	.002	8.73	.197	6.70	1.62	.253	.541	35.2	<.244	<.097	<.487	<.487	<.975	<.487
NW-88-855	55	.026	267.	.001	10.8	2.29	32.2	3.59	72.9	5.22	56.2	<.245	.187	<.489	<.489	<.978	<.489
NW-88-856	56	.015	338.	<.0005	4.77	1.15	5.52	5.75	101.	1.50	185.	<.246	.172	<.493	<.493	<.985	<.493
NW-88-857	57	.05	1661	.011	26.4	5.13	16.8	27.2	137.	15.2	113.	<.242	.378	.657	<.484	1.05	<.484
NW-88-858	58	.017	9.94	.002	15.3	.233	4.36	2.34	2.10	1.40	19.9	.864	<.098	<.49	<.49	<.98	<.49
NW-88-859	59	<.015	2250	.006	14.8	2.11	6.56	11.1	261.	1.99	89.9	2.19	.190	1.08	<.488	2.20	<.488
NW-88-860	60	.159	148.	.003	11.3	2.87	7.68	4.63	19.3	3.84	13.1	<.246	<.099	<.493	<.493	<.985	<.493
NW-88-861	61	.023	32.6	.001	10.1	.219	3.85	15.8	1.49	.672	111.	<.242	<.097	.761	<.484	<.969	<.484
NW-88-862	62	.022	11.3	.001	8.07	<.097	3.03	1.68	1.00	.541	11.3	<.242	<.097	<.484	<.484	<.968	<.484
NW-88-863	1	<.124	241.	.012	<.413	<.826	7.58	8.71	3.26	5.05	1659	<2.06	<.826	5.25	<4.13	<8.26	<4.13
NW-88-864	63	.016	7.11	.001	4.63	<.098	.727	1.51	<.244	<.489	13.9	<.244	<.098	<.489	<.489	<.978	<.489

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-807140

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88 10	1	414.	407.	.105	424.	1.32	11.5	30.7	383.	2.67	132.	<.244	.744	<.488	<.488	3.26	.848
DMH-88 11	2	18.9	77.5	.015	28.1	.406	3.96	5.39	15.5	<.493	52.6	<.246	.490	2.29	<.493	1.02	<.493
DMH-88 12	3	4.90	16.3	.004	13.3	<.097	2.34	3.29	5.20	<.484	14.8	<.242	.286	2.83	<.484	<.969	<.484
DMH-88 13	4	194.	369.	.031	85.8	.252	10.6	16.5	123.	2.52	19.4	<.243	.311	1.54	<.486	1.07	<.486
DMH-88 14	5	128.	241.	.072	235.	.844	6.03	8.22	111.	2.15	37.1	<.248	.452	<.495	<.495	3.83	<.495
DMH-88 15	6	11.4	36.2	.013	22.8	.191	4.47	5.19	18.7	<.494	43.5	.260	.289	<.494	<.494	<.988	<.494
DMH-88 16	7	1.90	42.9	.021	13.1	2.49	8.88	7.44	32.9	1.10	18.3	.310	.276	<.494	<.494	<.988	<.494
DMH-88 17	8	5.77	144.	.015	25.8	.330	6.11	4.21	25.7	2.44	20.0	.263	.285	<.497	<.497	<.993	<.497
DMH-88 18	9	107.	91.4	.099	48.5	.229	5.65	8.48	94.5	2.56	35.7	.277	.334	<.492	<.492	<.984	<.492
DMH-88 19	10	156.	62.7	.064	39.0	.517	5.49	18.1	140.	.951	23.2	.262	.299	<.493	<.493	<.986	<.493
DMH-88 20	11	380.	53.6	.032	36.0	.265	5.10	11.2	131.	.722	11.5	<.247	.297	<.495	<.495	<.989	<.495
DMH-88 21	12	131.	54.6	.074	41.3	.159	7.09	9.74	109.	<.491	34.2	<.246	.365	<.491	<.491	<.982	<.491
DMH-88 22	13	6.48	43.6	.039	17.5	.332	7.00	5.00	24.0	1.23	35.3	.268	.331	<.491	<.491	<.981	<.491
DMH-88 23	14	16.2	268.	.048	33.3	1.28	6.21	6.09	62.3	.812	34.2	.261	.349	1.11	<.485	<.971	<.485
DMH-88 24	15	16.1	86.8	.038	23.5	.420	6.66	3.63	44.5	.842	13.1	<.246	.269	<.492	<.492	<.983	<.492
DMH-88 25	16	442.	412.	.129	25.1	1.48	6.73	15.0	212.	<.495	49.7	<.247	.232	<.495	<.495	<.989	<.495
DMH-88 26	17	122.	226.	.231	39.3	4.05	8.52	22.6	152.	7.82	16.6	.303	.257	.786	<.493	.996	<.493
DMH-88 27	18	.896	187.	.001	19.7	.798	3.30	10.7	8.21	2.78	33.1	.507	.334	1.01	<.487	<.975	<.487
DMH-88 28	19	.420	162.	.003	17.6	4.13	7.06	6.42	50.2	18.8	16.4	.363	.294	.739	<.486	<.973	<.486
DMH-88 29	20	.108	218.	.001	18.0	5.47	3.35	13.9	38.3	1.66	17.2	.388	.314	1.38	<.49	<.979	<.49
DMH-88 30	21	.082	1896	.004	14.0	2.77	6.92	6.88	72.5	6.91	18.8	.326	.277	.931	<.484	<.968	<.484
DMH-88 31	22	2.46	2254	.014	22.8	7.47	12.0	13.6	296.	42.8	27.3	<.246	.256	<.491	<.491	<.982	<.491
DMH-88 32	23	17.5	334.	.064	14.6	12.9	6.99	9.00	140.	21.9	17.4	<.245	.444	.593	<.489	1.09	<.489
DMH-88 33	24	.775	117.	.006	20.9	4.06	5.91	4.62	100.	9.52	22.4	<.247	.442	<.495	<.495	<.989	<.495
DMH-88 34	25	1.31	116.	.169	17.9	.674	6.07	5.08	17.1	5.74	18.5	<.249	.391	<.497	<.497	<.994	<.497
DMH-88-35	1	.181	208.	.009	2.23	<.097	3.90	10.7	32.9	<.485	28.1	<.243	<.097	.533	<.485	<.971	<.485
DMH-88-36	2	2.84	40.3	.062	2.47	.256	11.2	9.69	36.1	<.489	2.10	<.245	.143	1.43	<.489	<.978	<.489
DMH-88-37	1	1.71	96.7	.081	27.3	3.73	9.18	22.0	15.5K	<4.76	<9.52	<2.38	<.952	<4.76	<4.76	12.9	<4.76

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

DON Hucas

LOT ID: WES-80624A

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
NW-88-865	1	.016	110.	.002	4.13	1.28	1.62	4.28	5.29	.639	64.1	.285	<.096	<.478	<.478	<.955	<.478
NW-88-866	2	.08	395.	.006	12.0	4.22	33.3	4.12	117.	<.493	29.3	<.246	<.099	<.493	<.493	<.985	<.493
NW-88-867	3	.025	751.	.001	12.5	2.19	4.90	20.6	132.	19.5	46.1	<.245	.198	<.49	<.49	<.98	<.49
NW-88-868	4	<.015	3350	.001	5.54	2.52	11.7	6.81	26.2	<.485	5.08	<.243	<.097	8.51	<.485	<.971	<.485
NW-88-869	5	1.54	212.	.097	9.45	2.03	8.07	2.36	38.6	<.49	10.0	<.245	<.098	<.49	<.49	<.98	<.49
NW-88-870	6	<.015	434.	.001	9.63	.789	8.37	10.3	5.54	<.491	89.1	<.245	<.098	4.51	<.491	<.981	<.491
NW-88-871	7	.015	1202	.001	8.02	.172	4.98	5.85	27.0	<.482	5.03	<.241	<.096	6.43	<.482	<.964	<.482
NW-88-872	8	.024	292.	.004	13.1	.828	11.6	2.54	108.	.885	23.0	<.245	<.098	<.491	<.491	<.981	<.491
NW-88-873	9	5.22	1035	.343	16.4	3.76	15.6	7.39	79.6	.734	27.1	<.246	.256	<.491	<.491	<.982	<.491
NW-88-874	10	.093	641.	.044	11.7	.217	4.92	6.86	22.5	<.49	10.3	<.245	<.098	1.36	<.49	<.979	<.49
NW-88-875	11	.798	214.	.075	17.5	.538	7.16	8.49	26.0	<.488	33.1	<.244	<.098	<.488	<.488	<.977	<.488
NW-88-876	12	.027	162.	.002	9.77	.479	9.30	4.62	15.6	<.489	10.7	<.245	<.098	<.489	<.489	<.978	<.489
NW-88-877	13	.132	186.	.012	8.94	<.097	5.81	2.59	16.0	<.486	7.23	<.243	<.097	<.486	<.486	<.973	<.486
NW-88-878	14	.146	929.	.095	11.8	.861	16.7	7.72	60.2	3.92	6.86	<.242	<.097	.755	<.483	<.966	<.483
NW-88-879	15	.062	222.	.008	9.73	.355	7.51	2.60	9.60	<.49	15.2	<.245	<.098	<.49	<.49	<.98	<.49
NW-88-880	16	.205	118.	.019	10.5	.850	8.58	3.94	37.0	<.493	11.1	<.246	<.099	<.493	<.493	<.985	<.493
NW-88-881	17	.02	164.	.002	10.2	.772	17.9	2.39	26.4	<.492	14.7	<.246	<.098	<.492	<.492	<.984	<.492
NW-88-882	1	.025	395.	<.049	8.08	.177	2.77	5.09	8.30	<.485	87.9	<.243	<.097	1.10	<.485	<.971	<.485
NW-88-883	2	<.015	867.	<.048	11.1	<.097	3.39	6.14	11.2	<.485	12.5	<.242	<.097	1.79	<.485	<.97	<.485
NW-88-884	3	.204	954.	<.049	12.5	1.87	4.10	8.94	29.4	<.485	5.93	<.243	<.097	1.21	<.485	<.971	<.485
NW-88-885	4	1.37	394.	.06	7.56	1.26	9.64	5.60	21.3	<.496	2.54	<.248	<.099	.566	<.496	<.992	<.496
NW-88-886	5	2.60	591.	.108	17.6	17.5	6.47	3.77	96.8	<.485	59.2	<.243	.892	<.485	<.485	1.89	<.485
NW-88-887	6	.589	708.	.088	7.77	2.95	7.95	3.71	26.9	<.485	1402	<.243	.255	1.15	<.485	<.971	.656
NW-88-888	7	1.69	522.	<.049	7.32	1.70	8.67	6.09	47.6	<.495	63.6	<.247	<.099	2.19	<.495	<.989	<.495
NW-88-889	8	<.015	305.	<.049	4.72	1.31	7.10	8.22	3.58	<.485	129.	<.243	.129	4.57	<.485	<.971	<.485
NW-88-890	9	.309	332.	<.05	8.79	1.33	9.68	2.69	53.1	<.497	9.74	<.248	<.099	<.497	<.497	<.993	<.497
NW-88-891	10	<.015	1539	<.049	6.80	1.71	11.6	8.49	129.	<.487	72.6	<.243	.216	6.81	<.487	<.974	<.487
NW-88-892	11	.028	690.	.066	7.78	5.16	6.73	6.20	161.	6.56	13.2	<.246	<.098	<.491	<.491	<.982	<.491
NW-88-893	12	<.015	192.	<.049	6.58	.481	3.33	12.5	16.0	<.495	132.	<.247	<.099	1.81	<.495	<.989	<.495

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-80920W

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88-900	10	.299	28.2	.002	2.89	<.096	1.72	3.40	214.	<.481	2.60	<.241	<.096	<.481	<.481	<.962	<.481
DMH-88-901	11	.041	321.	<.0005	2.89	<.098	4.15	14.5	105.	<.49	33.6	<.245	.142	1.07	<.49	<.98	<.49
DMH-88-902	12	.032	257.	.002	3.52	.227	2.99	17.4	41.9	<.494	139.	<.247	<.099	1.71	<.494	<.988	<.494
DMH-88-903	13	.042	474.	<.0005	4.50	.134	3.34	9.39	19.5	<.493	5.73	<.246	<.099	2.78	<.493	<.985	<.493
DMH-88-904	14	.061	243.	<.0005	3.56	.293	4.70	11.2	18.3	<.49	5.54	<.245	<.098	2.76	<.49	<.98	<.49
DMH-88-905	15	.031	373.	.003	5.50	.136	6.51	11.3	28.0	<.49	50.4	<.245	<.098	4.19	<.49	1.01	<.49
DMH-88-906	16	.051	562.	.001	4.78	.308	5.52	9.01	27.0	<.491	43.3	<.246	<.098	1.88	<.491	<.982	<.491
DMH-88-907	17	.074	625.	.013	4.19	.159	5.16	12.1	35.4	1.64	8.09	<.245	<.098	4.40	<.49	<.98	<.49
DMH-88-908	18	.056	1193	<.0005	4.38	.181	4.51	16.1	32.0	3.59	3.63	<.241	.170	2.41	<.482	<.963	<.482
DMH-88-909	19	.097	353.	.038	2.62	.565	3.39	6.47	47.6	2.34	6.28	<.246	<.098	1.36	<.492	<.983	<.492
DMH-88-910	20	.038	194.	<.0005	2.59	<.099	6.06	14.3	16.7	<.497	22.0	<.249	<.099	1.46	<.497	<.994	<.497
DMH-88-911	21	.909	1928	.236	4.64	.672	7.76	27.2	84.5	.690	50.8	<.243	<.097	.932	<.485	<.971	<.485
DMH-88-912	22	.037	264.	.015	3.18	.369	8.64	12.8	36.3	<.485	93.1	<.243	<.097	.886	<.485	<.971	<.485
DMH-88-913	23	.163	928.	.021	4.49	1.36	7.15	10.8	35.3	<.491	8.31	<.246	<.098	3.41	<.491	<.982	<.491
DMH-88-914	24	.584	2303	.038	4.33	.236	4.34	11.2	53.8	<.49	8.58	<.245	<.098	4.11	<.49	<.98	<.49
DMH-88-915	25	.083	1152	.022	6.13	.630	4.85	14.4	39.2	<.496	7.93	<.248	<.099	2.97	<.496	<.992	<.496
DMH-88-916	26	.05	70.1	<.0005	5.59	5.09	8.23	4.07	35.2	<.496	10.0	<.248	<.099	1.75	<.496	<.992	<.496
DMH-88-917	27	.062	24.2	<.0005	3.89	.125	5.05	13.4	14.5	<.485	30.1	<.243	<.097	1.35	<.485	<.971	<.485
DMH-88-918	28	.034	165.	<.0005	3.57	.386	9.92	13.2	20.6	<.493	31.9	<.246	<.099	2.03	<.493	<.985	<.493
DMH-88-919	29	.062	29.9	.001	4.08	.849	8.48	5.44	5.98	<.495	5.17	<.247	<.099	1.63	<.495	<.989	<.495
DMH-88-920	30	.09	1613	.015	3.91	.299	5.63	9.79	34.1	<.481	4.70	<.241	<.096	6.92	<.481	<.962	<.481
DMH-88-921	31	.261	1209	.034	3.56	.488	6.32	8.48	41.9	<.497	5.57	<.248	<.099	3.47	<.497	<.993	<.497
DMH-88-922	32	.041	791.	.002	3.12	.196	5.64	8.79	20.8	<.499	31.2	<.249	<.1	3.30	<.499	<.997	<.499
DMH-88-923	33	.086	360.	.056	3.67	.519	6.11	9.74	22.3	<.493	15.3	<.247	<.099	2.40	<.493	<.986	<.493
DMH-88-924	34	.599	383.	.984	5.40	3.67	8.40	8.42	84.6	5.16	5.52	<.246	<.098	4.54	<.492	<.983	<.492
DMH-88-925	35	.043	123.	.004	3.77	.268	5.74	5.77	4.05	<.498	8.94	<.249	<.1	4.34	<.498	<.996	<.498
DMH-88-926	36	.043	73.0	.008	3.43	.257	8.24	17.4	16.9	<.499	84.6	<.249	<.1	.967	<.499	<.997	<.499
DMH-88-927	37	.043	7.60	.002	5.12	.100	3.01	19.4	1.84	<.492	38.2	<.246	<.098	1.39	<.492	<.983	<.492
DMH-88-928	38	.037	26.7	.005	4.36	.108	4.54	11.3	3.40	<.478	51.9	2.99	<.096	1.78	<.478	<.956	<.478
DMH-88-929	39	.052	101.	.006	3.64	.270	5.45	14.1	19.7	.809	22.9	.336	<.098	1.08	<.489	<.978	<.489
DMH-88-930	40	.129	246.	.088	3.45	1.38	6.42	11.0	34.7	3.83	5.33	.506	<.095	1.73	<.477	<.954	<.477

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: WES-8S2420

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88-931	41	.045	98.1	.002	3.11	.156	4.47	13.1	9.55	<.481	34.4	<.24	<.096	1.14	<.481	<.962	<.481
DMH-88-932	42	<.015	690.	.003	3.51	1.56	8.26	6.78	58.6	1.05	9.57	<.249	.112	5.08	<.498	<.996	<.498
DMH-88-933	43	<.015	416.	.004	2.97	.603	6.18	6.65	20.9	1.87	5.63	<.246	<.098	7.81	<.492	<.984	<.492
DMH-88-934	44	.039	107.	.001	5.67	.360	5.42	15.4	7.48	2.98	122.	<.243	.110	1.17	<.486	<.973	<.486
DMH-88-935	45	.04	109.	.002	3.63	.178	5.05	11.9	13.2	<.487	27.7	<.244	<.097	.956	<.487	<.975	<.487
DMH-88-936	46	.036	24.7	.001	4.44	.153	2.44	17.7	2.37	.574	65.9	<.244	<.097	1.34	<.487	<.975	<.487
DMH-88-937	47	.049	130.	.003	3.49	.532	5.78	9.30	12.6	.677	50.4	<.239	<.096	1.32	<.478	<.955	<.478
DMH-88-938	48	.026	82.3	.004	3.33	24.7	2.29	23.7	171.	.840	48.8	<.247	<.099	4.42	<.494	<.988	<.494
DMH-88-939	49	.034	15.5	.002	4.69	1.12	5.03	11.9	2.51	1.02	120.	<.239	.103	1.90	<.478	<.955	<.478
DMH-88-940	50	.029	171.	.004	3.72	.779	4.38	5.47	7.38	1.54	29.6	<.239	<.095	3.11	<.477	<.954	<.477
DMH-88-941	51	.046	202.	.003	3.91	.582	4.55	10.0	10.4	2.48	25.7	<.244	<.098	1.46	<.488	<.977	<.488
DMH-88-942	52	.052	157.	.003	5.13	.489	7.84	10.0	14.8	1.02	45.7	<.25	<.1	1.38	<.499	<.998	<.499
DMH-88-943	53	.041	12.9	.003	5.23	.483	4.27	10.6	1.35	.800	62.7	<.244	<.097	1.26	<.487	<.975	<.487
DMH-88-944	54	.043	15.7	.003	3.81	.635	4.69	15.1	3.06	.939	46.5	<.243	<.097	1.37	<.486	<.973	<.486
DMH-88-945	55	.034	64.6	.001	5.30	.176	3.20	16.2	4.99	1.45	58.4	<.248	<.099	1.21	<.495	<.99	<.495
DMH-88-946	56	.032	1452	.001	4.28	.211	10.3	6.78	44.3	2.17	85.8	<.239	.210	3.02	<.477	<.954	<.477
DMH-88-947	1	.018	79.7	.002	5.55	<.1	3.59	20.4	10.6	.615	63.2	<.249	.112	.541	<.498	1.36	<.498
DMH-88-948	2	<.015	105.	<.0005	8.22	.116	4.57	23.5	19.0	<.489	49.6	<.245	.108	<.489	<.489	<.978	.517
DMH-88-949	3	.015	136.	<.0005	5.80	<.095	4.04	10.7	17.0	<.477	6.18	<.238	<.095	1.96	<.477	1.04	<.477
DMH-88-950	4	<.015	6.73	<.0005	4.85	<.098	3.49	9.03	<.244	<.488	47.6	<.244	<.098	.563	<.488	<.976	<.488
DMH-88-951	5	.034	166.	.001	8.88	.787	5.69	10.3	16.0	<.496	6.91	<.248	<.099	.934	<.496	<.992	<.496
DMH-88-952	6	.159	427.	.007	8.65	.464	10.1	20.9	71.0	<.497	23.9	<.248	<.099	<.497	<.497	<.993	<.497
DMH-88-953	7	.02	404.	<.0005	6.13	1.29	9.08	11.2	100.	1.40	71.7	<.245	<.098	<.49	<.49	<.979	<.49
DMH-88-954	8	<.015	40.1	.001	5.01	<.097	3.32	13.5	4.87	<.486	46.1	<.243	<.097	<.486	<.486	<.973	<.486
DMH-88-955	9	<.015	236.	<.0005	10.7	1.01	5.81	7.25	45.6	.605	17.2	<.246	.115	1.32	<.492	<.983	<.492
DMH-88-956	10	<.015	551.	<.0005	7.41	.455	5.20	9.88	33.7	2.84	20.1	<.242	.135	7.23	<.484	<.968	<.484
DMH-88-957	11	<.015	181.	<.0005	7.17	.438	5.26	10.1	29.3	2.57	218.	<.247	<.099	.536	<.495	<.989	.656
DMH-88-958	12	.126	295.	<.0005	7.98	.587	10.2	9.74	33.5	1.24	28.0	<.246	.115	<.491	<.491	<.982	<.491
DMH-88-959	13	.045	547.	.001	4.46	<.097	9.33	6.52	40.0	.605	10.1	<.244	<.097	.579	<.487	<.975	.618
DMH-88-960	14	<.015	229.	.001	3.70	<.099	4.28	12.2	36.4	<.497	40.6	<.249	<.099	<.497	<.497	<.994	<.497

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

LOT ID: WES-8624IA

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Pd ppm	Se ppm	Te ppm
DMH-88-961	15	.057	431.	.004	3.82	1.02	3.76	6.11	49.2	25.1	45.2	<.246	.204	<.492	<.492	<.983	<.492
DMH-88-962	16	.656	1005	.038	10.7	4.35	13.0	13.6	178.	4.73	24.4	<.249	.128	.959	<.498	<.995	<.498
DMH-88-963	17	.035	90.0	.001	7.50	.557	10.3	4.11	18.7	<.487	9.87	<.243	<.097	<.487	<.487	.993	<.487
DMH-88-964	18	.134	110.	.003	6.02	.699	13.4	6.74	53.2	<.484	8.17	.263	<.097	<.484	<.484	1.39	<.484
DMH-88-965	19	.410	126.	.029	4.11	.781	9.61	3.91	47.2	1.62	26.3	<.247	<.099	<.494	<.494	<.988	<.494
DMH-88-966	20	.042	88.0	.003	5.74	2.35	6.14	4.68	26.3	1.53	44.4	<.242	<.097	<.484	<.484	<.967	<.484
DMH-88-967	21	.052	390.	.004	5.71	1.03	12.9	5.61	32.8	2.10	7.42	<.243	<.097	.776	<.485	1.01	<.485
DMH-88-968	22	.362	496.	.014	4.22	.200	9.15	3.10	20.7	<.485	4.93	<.243	.100	<.485	<.485	<.971	.838
DMH-88-969	23	<.015	33.7	.001	4.03	<.097	4.63	10.6	4.90	<.486	105.	<.243	<.097	.544	<.486	<.972	<.486
DMH-88-970	24	<.015	268.	<.0005	5.04	.261	4.54	3.72	11.0	<.49	4.68	<.245	<.098	.921	<.49	<.979	<.49
DMH-88-971	25	<.015	226.	.002	7.21	.182	5.67	10.5	20.1	<.493	4.03	<.246	<.099	1.80	<.493	1.38	<.493
DMH-88-972	26	.123	1172	.002	6.11	.307	5.28	11.8	63.9	<.477	6.32	<.239	.357	1.67	<.477	1.29	1.06
DMH-88-973	27	1.31	382.	.109	8.60	4.41	12.8	5.44	95.6	.934	141.	<.243	.335	<.487	<.487	<.974	.800
DMH-88-974	28	.024	192.	<.0005	4.30	.161	8.31	11.6	16.1	<.485	82.6	<.242	<.097	<.485	<.485	<.97	<.485
DMH-88-975	29	.018	49.8	<.0005	4.25	<.098	3.41	16.5	4.51	.728	55.4	<.246	<.098	<.491	<.491	<.982	<.491
DMH-88-976	30	<.015	178.	.001	3.19	<.098	3.82	6.05	22.5	<.492	10.8	<.246	<.098	.824	<.492	<.983	<.492

3805 Atherton Road • Rocklin, California 95677 • Tel.: 916/624-9701 FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • Tel.: 702/359-6600 FAX: 702/359-6605

Project _____

ANALYSIS SHEET

Date _____

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
Dm H-88 10	prospect pit O.C.	High Graded - silicified dolo - up to 20% irregular Qtz veinlets mod. Goe	105	414	407	383	1320		
11	prospect pit. O.C.	High Graded - very small Jasperoid ~10' 2-3% Qtz veins - mod. Goe	15	19	77	16	406		
12	O.C.	very coarsely rextlized dolo with up to 20% silica veining - brown Goe w-mod just a small patch	.4	5	16	5	<100		
13	prospect pit O.C.	Jasperoid - very small - 2-10% Qtz veins very irregular - mod Goe.	31	194	369	123	252		
14	Dump	rather silicified dolo - trends E-W m-s Goe W Hem	72	128	241	111	844		
15	prospect pit	on Silverton Fault - silicified dolo - 10% Qtz veinlets - rather broken up - minor argillized Tuff weak Goe	13	11	36	19	191		
16	O.C.	very broken up quartzite + very weakly to strongly silicified dolo - a few little Qtz veins w-mod Goe	21	2	43	33	2490		
17	prospect pit	On Silverton Fault - silicified dolo - a few Qtz veins a bit of tuff - very broken up w-Goe	15	6	144	26	330		
18	O.C.	small Jasperoid + Qtz net veined zone mod Goe w-Hem	99	107	91	95	229		
19	dump	Jasperoid with up to 15% Qtz veins from Tuff contact - W. Goe	64	156	63	140	517		
20	O.C.	Jasperoid & Limonitic dolo - upto 15% Qtz veins in Jasperoid - m-s Hem.	32	380	54	131	265		
21	O.C.	pod of up to 70% Qtz veins (white) net veins - W. Goe	74	131	55	109	195		
22	O.C.	Jasperoid in bx dolo 2-5% Qtz veins m-s Goe	39	6	44	24	332		
23	O.C.	Jasperoid with up to 15% Qtz vein network m-s Goe W Hem	48	16	268	62	1280		
24	dump	Jasperoid - with up to 35% Qtz net veins m-s Hem - W. Goe	38	16	87	45	420		
25	dump	mixture of Qtz veined Jasperoid + Qtz veined argillized Tuff - upto 30% in each locally massive coarse white calcite	129	442	412	212	1480		

Page ____ of ____

Dm H-88

Project _____

ANALYSIS SHEET

Date _____

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH88 26	Dump	Jasperoid with up to 35% Qtz net veins mod Goe zone 10-15' wide	231	122	226	152	4050		
27	O.C.	mod. silicified (more like hardened) Tuff a few irregular silica veins w-m Goe locally Jar	1	.9	187	8	798		
28	O.C.	Bx of Paleozoics + some Tuff - about 30' thick Lx frags 1' or less gray silica w. Goe	3	.4	162	50	4130		
29	O.C.	Tuff - mod silicified, m. Goe vw Hem local Jar	1	.1	218	38	5470		
30	O.C.	Bx of Paleozoics - strongly silicified some voids between fragments. m. Goe abit of Jar	4	.08	1896	73	2770		
31	O.C.	abit of jasperoid just below tuff contact mod. Goe tr Jar	14	2.5	2254	296	7470		
32	O.C.	Jasperoid - m-S. Goe locally upto 10% irregular Qtz veins to 1/4",	64	18	334	140	12900		
33	O.C.	Jasperoid - 1-3% veins abit druzy vw-m. Goe.	6	.8	117	100	4060		
34	O.C.	looks to be brecciated SS - a few Qtz veins - w-mod Goe.	169	1.3	116	17	674		
35	Float sub O.C.	Silverton Fault - argillized tuff w/ 5% Qtz veins m. Goe, w. Jar.	9	.18	208	33	<100		
36	O.C.	Qtz vein to 3" thick, zone about 10' wide in silicified + weakly argillized tuff	62	2.8	40	36	256		
37	O.C.	Qtz vein about 3" thick, coarse Quartz about 10% Stibnite	81	1.71	97	15500	3730		
38	O.C.	Qtz vein about 1 ft. thick in silicified tuff minor stibnite	44	10.8	42	1747	853		
39	O.C.	zone ~10 ft wide with 1-3 veins/ft, veins 1/4" to 2" - chalcedonic to coarse Qtz, some stibnite	185	3.7	113	2862	1500		
40	O.C.	vein coarse Qtz 6" wide - some chalcedonic minor stibnite	110	17.5	288	3525	639		
41	O.C.	vein 4" wide coarse to chalcedonic Qtz tr. Stibnite	287	54.6	505	318	816		

DMH-88

Page ____ of ____

Project _____

ANALYSIS SHEET

Date _____

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 42	O.C.	Qtz vein 4" wide, coarse Qtz, tr. Stibnite	160	38.3	239	5878	1980		
43	O.C.	Qtz vein 3" wide up to 5% Stibnite	29	2.08	397	2283	588		
44	OC.	Qtz veins several parallel over 5', up to 4" wide coarse & chalcedonic Qtz up to 15% stibnite	99	51.1	84	8741	514		
45	prospect pit O.C.	Qtz vein 4" wide 15% stibnite coarse Qtz.	620	3.27	1410	17800	8930		
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									
57									

DMH-88

Page ___ of ___

Project Silverton

ANALYSIS SHEET

Date 11-7-87

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DRE-87-189	Outcrop	Str rextal dolomite, ratty sil along matrix, str bxd, locally str sil, wk-str goeth on frac, vltywgy.-vltywbn	25	.2	24	8.0	180		
190	Outcrop	Str rextal dolomite, ratty sil along matrix, str bxd, locally str sil, wk-str goeth on frac, vltywgy-vltywbn	20	.2	29	7.6	200		
191	Outcrop	Mod-str arg rty. partially welded xtal-lithic tuff-dike, mod goeth, ltywbn	.25	.1	260	25.0	290		
192	Outcrop	Str rextal, bxd partially sil dolomite, no Fe-stain, chocolate bn	15	.1	11	4.8	240		
193	Outcrop	Isp. str sil dolomite, str bxd, locally str clay or alunite on frac, linear rib striking N40°W, mod-str goeth, ltgy-ywbn	55	1.6	100	30.0	530		
194	Outcrop	Isp, str sil dolomite, str bxd, late stage qtz vns + qtz coating cavities, mod goeth, ltgy-ltbn	840	2.8	300	290	500		
195	Outcrop	Str arg + locally str sil tuff, str bxd, locally leached, str goeth, vltywbn-ywbn	330	.9	1500	220	550		
196	Outcrop	Str arg + locally str sil tuff-dike, locally unox py (~1%) in sil zones, str bxd, str goeth, wt-ywbn, sy	130	.5	800	430	5800		
197	Outcrop	Isp. str sil + bx dolomite, abnt drusy qtz, str goeth, locally str hem, xtal jar + As ochre, varicolored	190	3.9	180	110	3800		
198	Soil	Ltbn clay rich soil, mainly arg tuff, taken from gopher hole dump	55	.3	110	35	490		
199	Outcrop	Str arg + locally sil tuff, mod-str goeth on frac, wt-vltywbn	25	.1	160	17.4	730		
200	Outcrop	Str arg + locally sil tuff, mod-str goeth on frac, wt-vltywbn	70	.2	160	32	2000		
201	Outcrop	Isp. str bxd + sil dolomite (?), abnt clay or alunite on frac, drusy qtz, str goeth, gy-dkgy-ywbn	450	8.3	310	120	3800		
202	Selected pit dump grab	Str leached tuff (?), locally sil, poss alunite, str goeth + hem, ywbn-rdbn-dkbn	350	2.2	1300	720	2900		
203	Outcrop	Isp, str sil + bxd dolomite, drusy qtz, str goeth on frac, locally str hem, poss cinnabar, bn-ywbn-rdbn, gy, sample site 97487	150	2.9	420	110	4000		
204	Outcrop	Mod-str arg + sil tuff w/ qtz vns, ~30% of sample, <1% of outcrop, wk goeth, wt-ltywgy	25	.2	70	90	350		

~~DRE-87~~ DRE-87

Project Silverto

ANALYSIS SHEET

Date 11-7-87

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DRE-87-205	Selected chip, Outcrop	Selected chip of stibiconite rich jsp, str bxd + sil dolomite, slicks, mod goeth, vlt yw	760	7.2	15	>1000	5800		
206	Selected chip, Outcrop	Selected chip of leached jsp w/ abnt drusy qtz, str bxd + sil dolomite, mod-str hem + goeth, gy-ltgy-rdbn, same outcrop as 205	205	2.2	39	170	2600		
207	Outcrop	Mod arg tuff-dike, wk-mod goeth, lt ywbn	15	.1	80	150	1200		
208	Outcrop	Str arg + leached tuff-dike, wk-mod goeth, wt-ywbn	20	.1	45	30	1000		
209	Outcrop	Str arg tuff-dike, non-welded, wk-str goeth, vltywbn-ywbn	10	.1	90	28	1000		
210	Outcrop	Str sil dolomite or qtzite, str bxd, locally calcareous + cc on frac, wk goeth + hem, vlt pkgy	15	.1	17	17	400		
211	Outcrop	Str arg tuff-dike, non-welded, mod-str goeth + hem, or bn	10	.1	200	20	160		
212	Outcrop	Str arg tuff-dike, non-welded, mod-str goeth + hem, or bn	10	.1	190	38	310		
213	Outcrop	Str bxd dolomite, mostly wkly rextal, locally bleached, v wk goeth, gy-bngy	30	.1	19	12	240		
214	Outcrop	Str arg tuff, wk-str goeth, wt-ywbn	325	.4	5500	160	1800		
215	Outcrop	Mixed str sil tuff + jsp, str bxd, str goeth, ywbn	850	.3	220	65	780		
216	Outcrop	Jsp, str bxd + sil dolomite, str goeth, wk As ochre (?), ywbn	425	1.1	320	100	2300		
217	Outcrop	Mod-str arg tuff, poorly welded, wk-str goeth, wt-ywbn	85	.1	57	28	180		
218	Outcrop	Jsp, str bxd + sil dolomite, str goeth, wk As ochre (?), ywbn	420	.9	190	120	870		
219	Outcrop	Mod-str arg tuff, str bxd, str goeth, yw bn	10	.1	400	110	1800		
220	Outcrop	Mod-str arg tuff, wk-str goeth, wt-ywbn	20	.1	120	45	850		

DRE-87

Project Silverton

ANALYSIS SHEET

Date 11-8-87

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DRE-87-221	Outcrop	Qtzite, str bxd, abnt slicks, wk-mod goeth, vlt ywbn	10	.1	39	24	290		
222	Outcrop	Mod arg tuff, wk-mod goeth, lt ywbn - ywbn	10	.1	70	5	150		
223	Outcrop	Qtzite, str bxd, abnt slicks, wk-mod goeth, vlt ywbn	15	.1	14	10	200		
224	Float	Jsp, bxd, str qtz vnd, drusy qtz, leached, str goeth, ba gy, from drainage east of 222	915	6.5	310	29	2100		
225	Random pit dump grab	wk-mod arg tuff, wk-mod goeth, lt ywbn	15	.1	12	2.0	90		
226	Selected pit dump grab	Rextal dolomite, str bxd, str hem, brick rd, dolo. directly below tuff	20	.1	130	5.6	550		
227	Outcrop	Rextal dolomite, wk goeth, vlt gy yw	15	.1	5	2.2	70		
228	Outcrop	Rextal dolomite, v. wk goeth, lt gy, wk cc in cavities	5	.1	5	0.5	60		
229	Outcrop	Qtzite, interstitial cc, mod bxd, wk goeth, lt gy yw	-5	.1	11	4.2	100		
230	Outcrop	Qtzite, interstitial cc, mod bxd, wk goeth, lt gy yw	-5	.1	4	0.8	70		
231	Random pit dump grab	Str arg tuff-dike(?), wk-str goeth, wt-ywbn	5	.1	370	150	1500		
232	Outcrop	Mod arg dolomite (?), str bxd, wkly calcareous, mod-str hem, lt rdgy-brick rd	50	.1	100	51	420		
233	Outcrop	Str sil + bxd tuff, micro bx + vnd, locally str arg, v. fine-grained py(?), mod-str goeth, gy-lt ywbn-ywbn	350	.2	830	350	12000		
234	Outcrop	Str arg + leached tuff, bxd (?), wk-str goeth, wt-ywbn	120	.1	620	42	620		
235	Outcrop	Mod arg + sil tuff, lithic rich, mod goeth, lt ywbn	50	.1	360	54	2400		
236	Outcrop	Str leached + arg tuff, pmky, str hem + goeth, ywbn - rdbn - wt	5	.1	680	12	710		

DRE-87

Project Silverton

ANALYSIS SHEET

Date 11-8-87

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DRE-87-237	Outcrop	Str arg + leached tuff, punky, wk goeth + hem, wt-v lt ywgy	5	.1	70	5.4	380		
238	Outcrop	Qtzite w/ interstitial cc, bxd, wk goeth, ltgyyw	5	.1	19	2.0	120		
239	Outcrop at small pit	Str arg tuff, str foliated (vert) against bxd dolo. face, 1' chip across outcropping tuff, str goeth, wt-ywbn	-5	.1	1800	9.6	340		
240	Outcrop	Mod-str arg tuff, wk-mod goeth, ltywbn	-5	.1	80	16.2	1100		
241	Outcrop	Wk-mod arg tuff, wk goeth, ltywbn-ltywgy	-5	.1	60	1.8	70		
242	Outcrop	Mod arg tuff, wk-mod goeth, ltywbn	-5	.1	170	8.6	230		
243	Outcrop	Mod arg tuff, wk-mod goeth, ltywbn	-5	.1	29	1.4	70		
244	Subcrop	Mod-str arg tuff, wk goeth, ltgyyw	-5	.1	41	3.8	150		
245	Subcrop(?)	Str sil + bxd tuff, str goeth, ywbn, gy, varicolored	30	.1	2100	110	2600		
246	Soil	Ywbn-bn sandy material from trench bottom, mod-str goeth	5	.1	27	3.8	90		
247	Random pit dump grab	Mod-str arg tuff, wk goeth, v ltywbn	-5	.1	60	10.0	150		
248	Random pit dump grab	Mod-str arg tuff, wk goeth, v/t ywbn	-5	.1	500	13.0	400		
249	Subcrop	Str arg tuff, v. str hem + goeth, ywbn-brick rd	5	.1	36	2.2	100		
250	Outcrop	Str arg tuff, v. str hem + goeth, ywbn-brick rd	-5	.1	250	63.0	120		
251	Outcrop	Jsp, str sil dolomite, bxd, mod-str goeth, ltbngy-bngy	5	.1	16	4.8	170		

DRE-87

Property Silverton

ANALYSIS SHEET

Date 4/88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppm	Au OPT	Ag OPT
RFR 88-185	O.C.	wkly arg non-weld tuff w/ mod lim on fracts	6	<.014	10.6	<.237	<.095		
186	O.C.	chal alt textles volc w/ stg lim + hem and ast diss py	3	.021	168	<.233	.134		
187	O.C.	stgly lim + hem stn leached fragment supp bxa + matrix supp bxa. Frags subang dolomite. skeletal silica textl	4	.022	242	1.88	.551		
188	O.C.	stgly bleached and arg rhyo volc's w/ stg lim and hem	3	<.015	205	1.60	<.099		
189	O.C.	stgly lim stned and brecciated volc's and dolom skeletal textl's + drusy qtz	4	<.014	296	2.75	.540		
190	O.C.	stgly crushed 6" wide lim, goeth + hem zone	4	<.014	4893	17.7	7.41		
191	O.C.	dk gry, methane-rich dolomite stgly fragment supp bxa. wk lim on fracts	3	<.013	1278	6.35	1.91		
192	O.C.	perv sil and brecciated part w. tuff - stg lim. Tr v. fne-grned diss S. Tr qtz vnlts	252	2.03	952	36.8	.481		
193	O.C.	stgly kaolinized non-weld tuff w/ blebs of stg lim	3	.023	52.8	.801	<.095		
194	float	perv chal sil t-les volc + perv lim stn t-les volc	3	.018	88.1	2.71	.117		
195	float	perv chal sil alt t-les volc + stg lim stn t-les volc	3	.027	253	10.9	.456		
196	O.C.	Jasperoid after dolomite. Tr bxa mod lim on fracts	3	.023	114	20.6	.353		
197	O.C.	fragment supp bxa. subang frags of perv sil dolomite (cemented by sil (or possibly quartzite)	6	.436	96.2	25.2	1.17		
198	O.C.	fault zone w/ stgly arg volc's and fragment supp oxidated dolomite	3	.034	313	2.08	.226		
199 at Dec Rib				.	2				
200	O.C.	adj to shaft. Stgly arg - mod sil part w. tuff stg lim + goethite	96	.509	2087	93.0	<.093		

RFR-88

Project Silver [illegible]

ANALYSIS SHEET

Date 4/88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
RFR 88 201	dump channel	~10' stgly bleached + arg rhyo weld tuff. stg lim.	5	.05	472	10.9	.917		
202	dump channel	~15' stgly bleached and arg rhyo w. tuff. stg lim	115	.306	1146	18.3	7.53		
203 A	O.C.	arg tuff w/ mod-stg lim stn	5	0.7	320	110.0	5.2		
204 A	O.C.	arg tuff w/ mod-stg lim stn	440	3.3	380	130.0	1.6		
205 A	O.C.	arg tuff w/ mod-stg lim stn + hem stn	30	0.1	110	67.0	1.4		
206 A	O.C.	arg tuff w/ mod-stg lim stn	15	0.1	140	94.0	.580		
207 A	O.C.	pur sil dolomite jasperoid	<5	0.1	29	4.0	.380		
208 A	O.C.	brecciated dolomite. wk-mod lim stn	<5	0.3	7	1.6	.420		
209 A	O.C.	Supergene open-spaced qtz filling	<5	0.4	3	0.5	.140		
210 A	O.C.	calcite vn bxa from 40' wide calcite zone	<5	0.3	3	1.2	.100		
211 A	O.C.	tuff dyke mod arg w/ mod lim them.	<5	0.1	910	90.0	.890		
212 A	O.C.	jasperoid in dolomite wk lim stn	<5	0.1	150	75.0	1.5		
RFR 88 270	O.C.	~3" wide qtz vein w/ coarse stibnite xtls and stg lim stn	825	24.0	550	>1000	4.4		

RFR-88

ANALYSIS SHEET

Project SILVERTON ('84)

Date 5-26-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-632	O.C.	80-20 split dolom + rhyol. dyke. The dolom is 95% bxd. w/color varying fr. light pink to gy. to lit. brn. Str. rex'stallized dolom. in cc. matrix, except nr. dyke where matrix is SiO_2. The dyke is str. kaol. w/ 2-5% glassy to milky qz. Gr. mass is deep red to brn. w/ Hm.	31	.119	36.8	12.9	134		
NW-88-633	O.C.	Kaol. rhyol. dyke 1-2% glassy qz. Jar-Goet. → hm alt. Gr. mass grey to pink.	3	.021	85.2	8.25	<97		
NW-88-634	O.C.	30 (jsp) - 70 (dolom.) split. Jsp. is massive, brn-gy w/ little alt. - mostly SiO_2. Dolom. is bxd. w/ clasts ½ -30 cm. in a cc. matrix. Dolom has <1% qz. veinlets.	8	.076	12.3	3.77	<100		
NW-88-635	O.C.	100% bxd. dolom. w/ SiO_2 + hm matrix. Calcite crystals are up to 3% of rock. Color: grey	7	.237	12.7	7.70	321		
NW-88-636	O.C.	Str. kaol. rhyol. dyke w/ 3-4% glassy qz. Str. goet. alt. Qz x'stals up to 4 mm seen. Gr. mass grey to brn.	23	.079	213	31.9	542		
NW-88-637	O.C.	90% bxd. dolom. w/ cc + hm + SiO_2 matrix. Clast size: ½-9 cm. Color: Grey. Silicification < 2% of O.C. Mod. wk. hm. alt.	18	.147	10.1	5.11	115		
NW-88-638	O.C.	70% bxd. dolom.-ls. It is dk. gy w/ 5% brn. SiO_2 veinlets as matrix. 2% hm.	17	.568	9.82	6.31	171		
NW-88-639	O.C.	70% bxd. dolom. w/ wk. goet. alt. 3% is silicified (dk. brn. goet + hm + SiO_2 scabs) Dolom. is dk. grey to grey.	11	.026	6.98	2.93	<99		
NW-88-640	O.C.	Wkly bxd. dolom w/ up to 5% cc. No silicification present. Moderately rex'stallized. Color: grey	6	.379	10.7	5.98	<96		
NW-88-641	O.C.	15% bxd. dolom., mod. rex'stallized w/ 3% silica + hm vns. Dolomite is gy, silica is brn. Weak alteration.	45	.070	65.7	23.6	1110		
NW-88-642	O.C.	60% bxd. dolom., mod. rex'stallized w/ 8% cc (vns + matrix) 1% silicification as matrix w/ mod. hm alt. Dolom. is gy. Silic. matrix is reddish brn.	19	.061	20.6	13.4	190		
NW-88-643	O.C.	Med-bedded (2-15 cm thick) dolomite w/ 2% cc. vns. Not silicified or bxd. Uninterrupted beds highly jointed ⊥ to bedding. wk. hm alt. along joints Color: grey.	4	<.015	3.30	1.69	<98		
NW-88-644	O.C.	30% bxd. dolomite & with rxtallized dolomite vns up to 22 cm wide, along joints. Bedding preserved in places. Mod. to str. hem. alt. in bxa. Bedded dolom is grey.	9	.205	7.71	4.86	<99		
NW-88-645	O.C.	90% bxd. dolomite (grey) w/ mod. to str. hm. alt. 2% silicification in matrix. Cc + hm. veinlets common through O.C. Dolom is mod. rex'stallized.	35	.378	26.1	12.2	268		
NW-88-646	O.C.	Str. rex'stallized ls-dolom. w/ 10% silicification. Mod.-str. hm alt. Ls-dolom is lt. grey. Silicification is reddish brn.	53	.460	266	111	794		
NW-88-647	O.C.	100% bxd. gy. dolom. w/ 3-5 cc vns. and a hm. + cc matrix. Mod. hm alt. No apparent silicification.	3	<.015	27.8	2.88	<98		

NW-88

Project SILVERTON (684)

ANALYSIS SHEET

Date 5-26-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-648	O.C.	50-50 split btwn. kaol. rhyol. dyke + 100% bxd. dolom. Dyke: Jar-alt., kaol, w/4% glassy qz., 2-3% gossan. Groundmass is lt-grey-yellow. Dolom: Grey bxd, wkly rex'stallized w/goet. alt. cc+Goet. matrix (15%)	4	<.015	39.3	4.95	<100		
NW-88-649	O.C.	100% bxd. dolom., partially bleached to lite grey. cc.+hm. matrix. Mod. hematik alt. Dolomite is mod. rex'stallized.	13	.131	43.0	12.6	<95		
NW-88-650	O.C.	85% bxd. dolom. Cc vns (3-5%) are pervasive. Cc.+hm. matrix. Alt. is wk. Rex'stallization is wk. Color: grey	5	.128	12.3	4.98	<97		
NW-88-651	O.C.	Thick-bedded (1-3 m.) dolom. Not silicified, not rex'stallized, wk. hm. alt. Color: grey	2	<.015	5.35	1.35	<97		
NW-88-652	O.C.	35% wkly. bxd dk. grey to grey wkly rex'stallized dolomite. 2% cc. vns. V. wk. hm. alt.	4	<.015	5.27	1.20	<98		
NW-88-653	O.C.	65 (dolom.) - 35 (bxd. dolom.) split. Dolom. is thin-bedded (½-3 cm) dk. grey w/ v. little alt. - it has 2-5% cc vn. Bxd. dolom. is light grey w/ mod. cc + hm alt. in matrix.	2	<.015	4.13	1.34	<100		
NW-88-654	O.C.	Dk. grey med-bedded (2-20 cm) mod. rex'stallized dolomite. Str. hm. alteration w/ cc. along joints + bedding planes)	2	<.015	4.55	1.33	<100		
NW-88-655	O.C.	80% bxd. dolom. Mod. wk. goet-hm alt. Color varies fr. dk. grey (less bxd.) to light grey (~100% bxd.) Matrix has cc x'stal w/hm + goet.	8	.020	6.50	3.03	<98		
NW-88-656	O.C.	100% bxd. dk. grey dolom. Goet-hm alt. w/10% cc vn. Dolomite is mod. rex'stallized.	2	<.015	3.84	2.73	<99		
NW-88-657	O.C.	Wkly bxd. dk. grey dolomite. w/ mod. wk. hm alt. 10% cc veining. Dolomite is wkly rex'stallized.	2	<.015	13.0	4.57	182		
NW-88-658	O.C.	Thin-bedded (2 mm - 10 cm) dk. grey dolom. (3-6% bxd.) Wk. alt. is hematitic. 3-5% cc vn.	5	<.014	3.28	.648	<95		
NW-88-659	O.C.	100% bxd. dk. grey to grey dolom. Mod. hm alt. w/ yw cc. matrix.	6	.047	8.23	1.77	<97		
NW-88-660	O.C.	Massive dolomite. Not bxd. Color: greyish pink. Wk. hm. alt. 2-4% cc in veins.	3	<.015	2.50	.535	<97		
NW-88-661	O.C.	Arenaceous s.s. w/ well-rounded qz. grains (¼-1 mm) Hm. common as matrix, and along fractures. 1% gossan. Massive silica + hm. cement?	4	<.014	20.1	8.36	<95		
NW-88-662	O.C.	Massive buff-grey dolomite. Highly jointed w/wk. jar-goet. alt.	2	.041	11.4	6.26	<97		
NW-88-663	O.C.	15% bxd. orthoqzite. Hm. alt. (mod) Cc+hm as matrix in bxa. Color: pinkish to black	7	.121	66.2	33.1	718		

NW-88

Project SILVERTON (1984)

ANALYSIS SHEET

Date 5-26-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-664	O.C.	Kaol. rhyol. dyke w/ rounded pumice fragments - 3-5% glassy qz - milky qz Goet. - hm alt. 2% gossan. Gr.mass milky to yw. to red	4	.027	100	6.73	417		
NW-88-665	O.C.	Highly kaol. rhyol. dyke w/ 15-20% alt. f'spars, 5-7% glassy qz. Hm alt. pervasive. 8-10% gossan. Gr.mass grey to yw.	8	.143	53.4	7.18	482		
NW-88-666	O.C.	Str. kaol. rhyol. dyke w/ 4% milky qz. Gr.mass yw. to gy. Goet. to hm alt.	9	0.063	353	17.4	<100		
NW-88-667	O.C.	15% silic. bxd. dolom. Hm-silica matrix w/ 2% cc. Dolom. is pinkish-gy. Silicification is brn.-black Hm alt. mod. strong	236	1.71	167	69.5	1720		
NW-88-668	O.C.	Bedded dolom. s.s. w/ hm + dolom. cement. Hm alt. is pervasive but mod. wk. Scabs of dk. brn. silica-hm alt account for 5-10% of rock. S.S. is pinkish-grey.	19	.202	20.0	8.48	119		
NW-88-669	O.C.	Massive, mod. rex'stallized dolom. wk. hm. alt., esp. along fractures. 3-4% silic. as vns., with hm. assoc. Dolom = gy; silic = brn.	29	1.50	38.2	26.4	427		
NW-88-670	O.C.	100% bxd. dk. gy. dolom. Str. hm. alt. (matrix is bright red) Mod. rex'stallization 1% cc. vn.	21	.502	14.2	9.79	260		
NW-88-671	O.C.	3% bxd. lt. gy. dolom., massive w/ wk. goet. alt. wkly. re-x'stallized. No apparent silicification.	2	.102	3.69	3.42	<100		
NW-88-672	O.C.	Massive gy. dolom. Mod. hm. alt. along joints. 3-5% cc vn No apparent silicification.	9	.181	5.19	2.21	<94		
NW-88-673	O.C.	3-5% bxd. dolom., mod. well rex'stallized. Bxa. contains jarosite as matrix w/ cc. Massive dolom. is pinkish gy w/ silic. scabs.	2	.036	5.58	1.90	<99		
NW-88-674	O.C.	1-2% bxd. dolom. Mod. str. hm. alt. Med-bedded (2cm-1m.) dolomite is gy. 2% cc. vn.	2	.018	10.5	2.88	<94		
NW-88-675	O.C.	Unbxd. massive gy-pink dolomite. Mod rex'stallized. No silicification 3-5% cc. vn.	2	<.014	6.63	2.34	<94		
NW-88-676	O.C.	Unbxd. massive gy. dolom. w/ goet-hm alt. Moderately rex'stallized. No silicification. 3-5% cc. vn.	2	<.014	19.9	6.26	349		
NW-88-677	O.C.	Massive gy-pink dolom + ls. Well rex'stallized in places. Mod. hm. alt. Jarasite (>5%) alt.	1	<.015	8.01	3.17	<97		
NW-88-678	O.C.	Kaol. rhyol. dyke. Goet.-alt. 2-5% glassy qz. Gr.mass is deep yw.	261	4.17	515	89.1	1420		
NW-88-679	O.C.	60% bxd. gy. dolom. Goet-hm alt. in matrix along w/ cc.	2	.169	23.2	3.36	<96		

NW-88

Project SILVERTON ('94)

ANALYSIS SHEET

Date 5-26-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-680	O.C.	50% bxd. lt. gy. dolom. Str. hm. alt. in matrix along w/cc.	1	.018	28.0	4.41	<98		
NW-88-681	O.C.	Kaol. rhyol. dyke. Goet - hm. alt. v. strong. Gr.mass color varies fr. gy. to deep yw. to reddish purp. 5-7% glassy qz.	58	.528	110	28.8	264		
NW-88-682	O.C.	80% bxd. dolom. Str. alt (hm.) pervades the O.C. Dolom. is dk. gy. Matrix is red w/ cc. x'stals.	3	.106	123	25.3	671		
NW-88-683	O.C.	Highly kaol. rhyol. dyke w/ mod. str. goet. alt. Gr.mass is yw.	19	.071	64.3	6.24	324		
NW-88-684	O.C.	Highly kaol. rhyol. dyke. Str. jar-alt. No glassy qz. Gr.mass varies from wt. to yw.	529	1.77	597	17.5	<99		
NW-88-685	O.C.	100% bxd. dolom. w/ 8% silicification. Str. goet. alt. w/ 3-5% gossan. Dolom. is 3% cc. vn. Dolom is dk.gy. to bl./Silic. is brn.	125	.948	98.7	31.5	384		
NW-88-686	O.C.	100% jsp'ized bxa. 8-15% chalcedonic qz. fillings. Some parts (30%) look unoxid. The rest in str. goet-hm alt. Dk. brn. 5-10% gossan	132	2.49	94.9	37.5	100		
NW-88-687	O.C.	100% bxd. 25-35% silicified dolom. Jar-goet. alt. in matrix. Hm strong in silic. zones. 5% gossan. Dolom. gy. Silic = brn.	16	.139	25.2	7.27	<96		
NW-88-688	O.C.	15% bxd. dolom. Wk. hm.alt. 35% silic. 25% of dolomite has 'spaghetti' fossils (coral?) Dolom. is gy.	3	.227	43.5	8.48	525		
NW-88-689	O.C.	Str. kaol. rhyol. dyke. 15-20% kaol. f'spars. +8% glassy to milky qz. wk. jar-alt. Gr.mass is wt. to yw.	43	.041	347	15.9	104		
NW-88-690	O.C.	75% bxd. brn-gy. dolom. 8-10% silic. w/ wk. goet. alt. Mod. rex'stallized.	159	1.99	218	23.8	942		
NW-88-691	O.C.	100% bxd. gy. dolom. Mod. str. goet. alt. 10% silic. w/ mod. hm alt. Silic. is dk. brn.	104	.794	75.9	31.6	544		
NW-88-692	O.C.	Wkly kaol. rhyol. dyke 6-8% kaol. f'spars + 6% glassy qz. 5% str. hm alt w/ 1-2% gossan. Mostly wk.-mod goet.alt. Pink-wt. to brn.	1	.015	39.2	2.85	<99		
NW-88-693	O.C.	70% bxd. dk.gy. dolom. w/ 25% worm-like fossils. Mod. goet. alt <1% cc. vn. 3-5% silic. Silicification is brn.	4	<0.014	23.3	2.10	<93		
NW-88-694	O.C.	Wkly. kaol. rhyol. dyke w/ 10% kaol f'spars +8% glassy qz. Very little alt (<2% goet.) but w/ 1-2% gossan. Gr. mass is pink-grey.	3	<.015	52.0	4.40	<100		
NW-88-695	O.C.	Highly kaol. rhyol. dyke w/ 30% hm. alt. 7% glassy qz. Gr.mass is wt.-gy. to pink to yw.	3	<.014	236	4.85	<95		

NW-88

Project SILVERTON ('84)

ANALYSIS SHEET

Date 5-26-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-696	O.C.	100% bxd. gy. dolom. w/ mod. hm. alt. 1-2% cc. vn. 1-3% gossan.	3	.056	30.9	5.51	399		
NW-88-697	O.C.	100% bxd. gy. dolom. w/ cc. + goet. as matrix. Mod. alt. 4% wk. silicification.	2	<.014	130	11.7	263		
NW-88-698	O.C.	Coarse-gr. (1-2 mm.) jsp. w/ fairly euhedral qz. 5% hm alt. w/ 2-3% gossan. White	6	.025	42.8	4.35	340		
NW-88-699	O.C.	10% silic. dolom. + qz. s.s. cc. + hm. matrix color is reddish buff 1-2% gossanous patches.	4	.039	93.1	13.4	853		
NW-88-700	O.C.	Lt. gy. massive highly jointed dolom. wk. goet.-hm. alt. as spots ~5 mm in diam. No silic., no bxa.	4	<.015	2.63	.721	<97		
NW-88-701	O.C.	Highly kaol. rhyol. w/ flattened vesicles and mod. goet. to hm. alt. 1% dolom. inclusions. 7% glassy to milky qz., 15% kaol. f'spars. Gr.mass is gy. to yellow to red.	3	<.014	345	17.1	665		
NW-88-702	O.C.	Kaol. rhyol. dyke. w/ wk. to mod. goet. alt. 5-7% glassy qz. Gr.mass is gy. to yw.	3	<.015	20.9	2.74	<100		
NW-88-703	O.C.	Kaol. rhyol. dyke w/ mod. to str. hm + goet. alt. Gr.mass is gy. to deep yw. to red.	3	<.015	574	19.3	<98		
NW-88-704	O.C.	Kaol. rhyol. w/ 5-6% glassy qz. Mod. to str. goet-hm alt. Gr.mass is gy.-wt. to yw. to deep red.	4	<.014	454	23.5	460		
NW-88-705	O.C.	70% jsp'ized gy. dolom. bxa. wkly. to mod. goet. alt. in the bxa. silic. Goet-hm in bxd. dolom.	3	<.014	26.4	2.61	160		
NW-88-706	O.C.	White qz'ite w/ wk. hm. alt. along fractures. Grains are 1/4 - 1 mm in diam. Somewhat euhedral (Subhedral)	2	<.014	9.74	1.15	104		
NW-88-707	O.C.	Highly kaol. rhyol. dyke. Mod. to str. hm. + goet. alt. 5% glassy qz. Gr.mass is gy. to yw. to deep red. Banded areas rich in hm alt.	2	<.014	527	50.2	600		
NW-88-708	O.C.	Highly jointed gy. dolom. wkly recrystallized w/ wk. hm. alt. along joints. 1-3% cc. vn. No silicification or brecciation.	1	<.014	5.30	.787	<96		
NW-88-709	O.C.	Jointed gy.-pink dolom. (10% bxd.) Mod. hm. alt. 1% chalced. qz. filling. 2-4% cc. vn. No apparent silicification.	3	.020	8.95	2.23	<98		
NW-88-710	O.C.	30% bxd. jointed dolom. wk. goet.-hm alt. No apparent silicification. 2% cc. vn. Color: lt. gy.	3	<.014	10.2	2.23	142		
NW-88-711	O.C.	Buff-gy. jointed dolom. 5% cc. vn. wk. goet. alt. No bxa. or silic.	5	<.014	13.6	2.77	<96		

NW-88

Project SILVERTON ('84)

ANALYSIS SHEET

Date 5-26-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-712	O.C.	75% sil. dolom.. Dolom. is poorly bxd., gy. w/ 10% cc. vns. + goet-hm. alt. Sil. rock is brn. or wt. The brn. is mod. hm. alt. w/ individual qz. grains (.5mm). The wt. is similar, but w/ less alt. (Spotty hm alt. in wt.)	2	.015	11.0	2.54	126		
NW-88-713	O.C.	65% silic. gy. dolom. Dolom. is ~ 25% bxd, w/ hm + cc. matrix. Silic. rock in wt. + brn. (wt:Brn = 2:1) w/ brn. being more hm. alt. wt. has spotty hm. alt.	2	<.014	11.2	2.62	<96		
NW-88-714	O.C.	60% bxd. dk. gy. dolom. w/ 10-12% cc. vn. Hm alt.'s mod. str. in matrix. No apparent silicification. High concentration of green weathering(?) mineral alway ~ 1/2-1cm into rock. Fine-gr.	2	<.014	41.1	4.17	191		

NW-88

Project SILVERTO (684)

ANALYSIS SHEET

Date 6-8-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-715	O.C.	100% bxd. dolom. w/ coarse qz. vns assoc. w/ heavy gossan. (10% qz + gossan). Bxo. matrix has v. str. hm. to goet. alt.	517	1.4	583	85	1080		
NW-88-716	O.C.	100% bxd., 80% silic. gy. dolom. Much of this rock is now coarsely-grained jsp. w/ 5% hm. alt. Silica matrix is brn.	12	.2	74	21	475		
NW-88-717	O.C.	100% bxd., mod. recrystallized gy. dolom. 25-30% silicified. Matrix has str. hm. (15%) to str. goet. (15%)	236	.2	280	19	835		
NW-88-718	O.C.	100% bxd. gy. dolom. w/ wk. to mod. goet. alt.d matrix 2-3% scabby silica is brn. w/ wk. goet. alt.	25	.09	70	12	200		
NW-88-719	O.C.	10% silicified rhyol. w/ 3-5% glassy qz., 5% kaol. f'spar and 10-15% goet. alteration (4-5% gossan). Gr. mass is brn. to reddish brn.	7	.03	96	10	192		
NW-88-720	O.C.	Kaol. rhyol. w/ 3-5% anhed. glassy qz., 8% kaol. f'spar, 3% dolom. inclusions. Qz. grains up to 4 mm. Mod-str. goet-hm. alt. (10%) with 5-7% gossan. No apparent silicification.	13	.04	519	7	836		
NW-88-721	O.C.	Str. kaol. rhyol. w/ 4% anhed. qz. up to 5 mm., 8% kaol f'spar., No apparent silicification. Wk. to mod. str. goet. + hm. alt. (8-15%). 2-5% gossan. Gr. mass varies fr. wt. to yw. to red.	8	.08	1521	54	157		
NW-88-722	O.C.	100% jsp'ized, 100% bxd. dolom. "Net" silica vns. ubiquitous. Mod. to str. goet. alt. Mod. hm. alt. Color: gy. to brn. to red.	182	4	201	91	101		
NW-88-723	O.C.	100% jsp'ized, 75% bxd. dolomite(?) w/ some "net" vn. texture. Mod. goet.-hm. alteration. 1-2% gossan. Color: gy → red → brn.	693	3	387	205	3170		
NW-88-724	O.C.	100% jsp'ized, 100% bxd. dolomite. Wk. goet. alteration. Color: gy-orange Some lichen on sample.	71	.6	84	42	476		
NW-88-725	O.C.	100% jsp'ized dolomite. Wk. to mod. goet. + hm. alt. 2% gossan. SiO_2 grains are ½ mm as a rule (Qz'ite?) Color: wt. → red	50	.3	179	14	965		
NW-88-726	O.C.	Kaol. rhyolite w/ str. goet. alt. in spots (replacing pumice) up to 5 cm. across. 3-5% glassy qz, 10% kaol. f'spar. 2-4% gossan. Gr. mass is gy.	2	.03	109	5	<100		
NW-88-727	O.C.	Str. kaol. rhyol. w/ 8% kaol. pumice, kaol. f'spar, 1-3% glassy qz. up to 3 mm, anhed. Str. hm. alt. along fracture, esp. qz. vns. 1-2% gossan, some as pref. orient. (sheen on gossan surface) Milky wt.	2	.02	48	2	<100		
NW-88-728	O.C.	Kaol. rhyol. w/ wk. to mod. jar. → hm. alt. G. mass is wt.-gy. to lite brn. red. 2% glassy subhed. qz. up to 5 mm. ½-1% gossan. Str. hm. alt. along 1 mm. wide SiO_2 vn. (hm. zone 1 cm wide)	2	.02	161	5	<100		
NW-88-729	O.C.	Highly kaol. rhyol. w/ 15-20% kaol. f'spar, 1-2% glassy qz up to 3 mm. Alt'n. is wkly goet to hm. Color: gy. to yw. to purple	9	<.015	2353	12	<100		
NW-88-730	O.C.	Massive jsp. w/ "net" qz. vns (3-5%). Inside weathered pieces yields a v. fine-gr. gy → dk. gy. silicic rock. w/ 2% SiO_2 vn. + 1% cc. Alt. is wkly. hm. Color: dk. gy → reddish brn.	39	6	116	25	349		

NW-88

Project SILVERTON ('84)

ANALYSIS SHEET

Date 6-8-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-731	O.C.	100% silicified "net" vn. jsp. w/ mod. goet. → hm. alt. Botryoidal goet. (1%) in this sample. Near where Olympic got 0.1 oz/ton gold. (50')	11	.06	36	7	<100		
NW-88-732	O.C.	100% bxd. gy. dolom. w/ a hm + cc matrix. Hm. alt. mod. str. in matrix. Mod. rex'stallized. Color: red (matrix).	3820	20	2794	131	884		
NW-88-733	O.C.	100% silicified, 100% bxd. dolom. Some very nice "net" silica vn jsp. Mod. to str. hm. alt. w/ mod. goet. alt. 1-2% gossan. Color: wt. gy. to red	250	.9	25	39	589		
NW-88-734	O.C.	100% silicified, 100% bxd. dolom. (massive jsp.) Wk. goet. alt. (wk. hm., too). Color: gy. to red. SiO_2 grains up to 1mm are pervasive in the massive jsp.	7	.1	47	9	111		
NW-88-735	O.C.	100% bxd. gy. dolom. w/ str. hm. + goet. alt. in matrix. 2-4% cc. vn. No apparent silic. or rex'stallization. Matrix is brn. or. to red.	18	.02	85	3	<100		
NW-88-736	O.C.	Kaol. rhyolite w/ 1-2% glassy qz. up to 3 mm., kaol. f'spar and 5-7% gossan. Alt. is mod. hm + goet. G.mass is pinkish wt. to brn. Also 1% bigt.	2	.02	81	3	151		
NW-88-737	O.C.	Wkly kaol. rhyol. w/ 3% silicification and 2-4% glassy euhed. qz. up to 3 mm., kaol. f'spar. Goet. alt. is wk. to str. in diff. parts of O.C. G.mass is gy. to yw. to brn.	1	<.015	309	2	<100		
NW-88-738	O.C.	100% bxd. mod. rex'stallized gy. dolom. 8-10% cc. vn. (x'stals up to 5 mm). Mod. goet. alt. Goet + cc matrix. Matrix is 20% of rock.	10	.1	93	14	<100		
NW-88-739	O.C.	100% bxd. gy. dolom. Wkly rex'stallized, w/ wk-mod goet. alt. 3-4% cc. vn. Matrix is 10-15% of rock (cc + goet)	12	.1	71	8	<100		
NW-88-740	O.C.	100% bxd. gy. dolom. w/ str. hm + goet alt. Matrix (15%) is red w/ 8-10% cc. Dolom is str. rex'stallized.	7	.02	28	11	<100		
NW-88-741	O.C.	Wkly. kaol. rhyol. w/ wk. goet. alt. (2-4% of rock), 3-6% glassy qz. up to 3 mm., kaol. f'spar (7%) and 1-2% dolom. clasts. No apparent silic'n. G.mass is dull wt. to lite pink	1	.04	29	1	<100		
NW-88-742	O.C.	Kaol. rhyol. w/ mod. wk. goet. alt. 4% gossan (wkly developed) 3% glassy qz. up to 2 mm., 5%-8% kaol. f'spar, 5-10% pumice lite pink	2	.02	78	3	<100		
NW-88-743	O.C.	Kaol. rhyol. w/ wk. to mod. goet. alt. 5% glassy qz. up to 4 mm., kaol. f'spar. 1-2% qz. vns. (1 mm wide) G.mass is pinkish to brn.	1	<.015	128	6	<100		
NW-88-744	O.C.	Kaol. rhyol. w/ no silic'n. Med. hm + goet. alt. (5%). 3-4% glassy qz (subhed., up to 4 mm), 15% kaol. f'spar, 4% dolom. inclusions. G.mass varies from milky wt. to brn. to red.	3	<.015	423	15	<100		
NW-88-745	O.C.	Kaol. rhyol. w/ 1% qz. vn. (1 mm. wide), 2-3% glassy qz up to 5 mm. Kaol. f'spar (10%) and 2% dolom inclusions. Alt. is mod. hm. + goet. G.mass is lite pink.	1	.02	253	5	<100		
NW-88-746	O.C.	Kaol. rhyol. w/ 3-5% SiO_2 + hm vn. Mod → str. jar + goet alt. (hm. in spots).	2	<.015	54	5	<100		

NW-88

Project SILVERTON ('84)

ANALYSIS SHEET

Date 6-8-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-747	O.C.	V. weathered kaol. rhyol. w/ mod. goet. + hm. alt. (G mass is brn→red). Qz. subhed. phenos up to 3 mm. (3%), Kaol f'spar.	1	.03	27	1	<100		
NW-88-748	O.C.	V. weathered kaol. rhyol. w/wk. goet + jar. alt. 3-5% glassy qz. up to 5 mm. + kaol. f'spar. No silic'n. G. mass is brn→buff	2	<.015	102	1	<100		
NW-88-749	O.C.	100% bxd. dolom., both gy. and bleached to lite buff. Matrix is wk→mod. hm + cc. Wkly rex'stallized.	1	<.015	8	2	<100		
NW-88-750	O.C.	100% bxd. (bxa. fr. 2 mm → 5 cm) dk. gy. dolomite. Matrix is wkly hm + goet. alt.d. >1% scabby brn. hm + silica.. cc + hm as matrix make up 15% of rock.	2	<.015	19	1	<100		
NW-88-751	O.C.	100% bxd. gy. dolom. w/ dolom + barite(?) vns. as 3% of rock. Matrix is goet + cc + dolom. Alt. is wkly goethitic.	1	.02	14	2	144		
NW-88-752	O.C.	Str. kaol. rhyol. (3'-5' below dolom. contact). 3% glassy qz. up to 3 mm. Alt. is mod→str. hm + goet. G. mass is red-brn.	4	.03	107	4	123		
NW-88-753	O.C.	Kaol. rhyol. (5'-7' below dolom. contact). Contains 5% glassy qz. up to 5 mm. + kaol. f'spar. Str. goet. alt. Deep yw. color.	90	.8	293	54	1070		
NW-88-754	O.C.	100% bxd. dk. gy. dolom. (bxa. pieces fr. 2 mm to 10 cm) in a cc. + hm. matrix. Rex'stallized dolom in spots. Mod. hm + goet. alt.	2	.04	40	4	697		
NW-88-755	O.C.	ppt.-type rock found at approx. bndry. btwn. rhyol. + dolom (above). Has concentric growth pattern of kaol(?) and a dk., soft mineral + goethite. Wt. → milky → dk. brn → black.	160	2	1179	39	633		
NW-88-756	O.C.	Highly kaol. rhyolite injecting in bxd. dolom. Rhyol. is str. hm. + goet. alt. G. mass is orange-red.	33	.2	495	19	248		
NW-88-757	O.C.	100% bxd., 15-20% silicified lite gy. → buff dolomite. 15% of O.C. is jsp. Silica vns. are brn. Mod. goet. + hm. alt. 2-3% cc in matrix.	141	.4	140	30	476		
NW-88-758	O.C.	100% bxd., unsilicified gy. dolom. Alt. is mod. goet. w/a cc. + goet. matrix. Matrix is 20% of rock.	2	.06	34	7	203		
NW-88-759	O.C.	Massive jsp. w/ small (1/4-1 mm.) qz. x'stals + jar. x'stals. Jar. → goet alt. is wk. >1% cc. as veins along fractures. Jsp. is gy. on fresh surfaces.	239	3	413	33	1200		
NW-88-760	O.C.	Highly kaol. rhyolite w/ mod. to str. goet alt. Has 2% glassy qz. up to 3 mm + zones of hm. alt'n. 5% gossan. G. mass varies fr. milky to deep yw. to red.	5	.03	192	7	140		
NW-88-761	O.C.	100% bxd. gy.-reddish gy. dolom. Matrix (10%) has hm + cc + goet + SiO_2. Scabs of brn. SiO_2 (3%) pervade rock. Alt'n is moderate.	11	.06	177	29	534		
NW-88-762	O.C.	100% bxd. gy → bleached gy. dolom. Matrix is goet + SiO_2 + cc ± hm. Cc vns. make up ~1% of rock. 2'-4' above rhyol contact.	8	.2	545	24	400		

NW-88

Project SILVERTON ('84)

ANALYSIS SHEET

Date 6-8-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-763	O.C.	Highly hm.-alt'd. dolom. + qz'ite at contact 1' above rhyol. 5-8% gossan. Alt is jar → hm. (mod. → str.) Color is mostly gy. w/25% red.	158	.4	783	29	776		
NW-88-764	O.C.	Wkly kaol. rhyol. w/ wk. → mod. hm alt. No apparent silicification. 2% gossan.	3	.03	33	5	15[illegible]		
NW-88-765	O.C.	100% bxd. gy. dolom. w/wk goet + hm. alt. 10% matrix is hm + cc. Matrix is reddish gy. Mod. recrystallized. 1-2% cc. vn. 1% silic'n. along cc. vns.	10	.09	24	6	1[illegible]		
NW-88-766	O.C.	100% bxd. gy. dolom, much like 765. Goet. alt. is wk → mod. Hm alt. is wk. cc + hm matrix 10% of rock, 1 silica vn is 3cm wide w/ mod. hm alt. Bleached patches w/ bxa.	3	.05	36	11	2[illegible]		
NW-88-767	O.C.	Massive jsp. + silic'd. rhyolite. Jsp. has mod. goet. alt. w/2% gossan. Silic'd. rhyol. has 5% gossan, with mod. → str. goet. alt. Jsp. is gy. on fresh surfaces; rhyol. is gyish-brn. Jsp. was 100% bxa.	411	.9	643	59	507		
NW-88-768	O.C.	Highly kaol. rhyol. w/ mod. goet. + hm. alt. as blotches in rock. 2% gossan. 5% glassy qz. up to 4 mm. No silic'n. G.mass is milky wt. to yw. to red.	12	.1	560	30	292		
NW-88-769	O.C.	Highly kaol. rhyol. w/ str. goet → hm alt. 5% gossan. 5% milky to glassy qz up to 4 mm. G.mass is brn → burnt red.	87	.7	1829	111	2050		
NW-88-770	O.C.	Highly kaol. rhyol. w/ str. goet. alt. 3-4% glassy qz. up to 3 mm. 15% kaol. f'spar 6-9% gossanous inclusions. Also gossan along qz vns (w/ str. goet. alt.) up to 2 mm wide.	69	.4	906	27	866		
NW-88-771	O.C.	100% silic'd. bxa. consisting of relict dolom + rhyol + qz'ite. Nice-looking rock w/ 5% gossan, esp. in rhyol. Str. goet. alt. w/ some botr. goet. 3% 'net' silica vns. Color: reddish brn.	1620	3	713	46	593		
NW-88-772	O.C.	90% silic'd, 100% bxd. dolom. Alt. is mod. str. goet. cc. x'stals up to 3 mm as in-fillings of vugs. 25% 'net' silica vns along cc vns. Burnt red.	74	.4	258	120	2850		
NW-88-773	O.C.	100% silic'd rhyol. w/ mod. to str. goet. + hm. alt. 3-5% gossan. Zones of v. hard silica (gy.) and zones of alt. brn-red silica + hm + goet.	1190	3	1097	39	753		
NW-88-774	O.C.	V. highly kaol. rhyol. w/ hm + qz vns. as the gossanous zones. 4% gossan. 6% milky qz. up to 6 mm.	4	.03	424	42	<100		
NW-88-775	O.C.	Kaol. rhyol. rather fresh. Some plag + san. x'stal intact. Wk. jar-goet. alt. along joints. G. mass is milky wt. → like yw.	9	.07	596	29	462		
NW-88-776	O.C.	20% silic'd rhyol. w/ str. kaol. in unsilic'd parts. SiO_2 veins are, at times, concentric and alt. in medly str. goet. Color: burnt red to orange to buff.	76	.8	839	75	309		
NW-88-777	O.C.	Kaol. rhyol. w/ mod. goet + hm. alt. 4% gossan. 6% milky qz. + 10% kaol. f'spar G.mass = yw → red.	2	.04	117	10	209		
NW-88-778	O.C.	Highly kaol. rhyol. w/ spotty fresh clots containing euhed. qz, pyrite, f'spar. (3%) Rest is mod. goet. alt'd. 2% gossan. G.mass is yw. → milky wt. → reddish purple.	184	2	487	80	1440		

NW-88

Project SILVERTON ('684)

ANALYSIS SHEET

Date 6-8-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-779	O.C.	Highly kaol. rhyol. w/mod → str. goet. + hm. alt. 2-4% glassy euhed. qz up to 4 mm. Hm. vns. pervade rock. G.mass is yw. to deep red.	2	.04	24	4	<100		
NW-88-780	O.C.	Highly kaol. rhyol. w/clots (8%) of jar-goet alt'n. 4% glassy qz. G.mass milky wt. to lite yw.	1	.04	128	14	219		
NW-88-781	O.C.	Str. recrystallized dolom., wkly bxd. Color: lite gy to buff. Mod. jar-goet. alt'n. No apparent silic'n.	2	<.015	6	.4	<100		
NW-88-782	O.C.	V. highly kaol. rhyol. Overall color is milky wt. 4% qz. is milky to glassy. Wk. jar. alt'n.	1	<.015	39	2	<100		
NW-88-783	O.C.	Highly kaol. rhyol. w/ mod. jar-goet. alt'n. 1-2% gossan. 3% milky qz. up to 3 mm., 2% dolom inclusions Color: Buff to yw. to brn.	2	.05	13	1	401		
NW-88-784	O.C.	Wkly kaol. rhyol. w/ 3% dolom. inclusions. 8-10% f'spars (plag. is kaol.) 5% glassy qz. V. wk. jar-goet. alt. G. mass is milky wt. to pink.	1	<.015	15	1	<100		
NW-88-785	O.C.	60-40 mix of rhyol (60) and dolom bxa (40). OC. is pink kaol. rhyol. w/ lg. (2-3 in.) clasts of dolom. Rhy. is wkly jar. Dolom. is 100% bxd. w/ 5% cc. vn. and mod. goet. alt. Yw.	2	.02	9	.6	<100		
NW-88-786	O.C.	Str. kaol. rhyol. chaulky wt. color. 5-6% glassy qz. up to 6 mm. No other apparent alt'n.	3	.03	26	4	<100		
NW-88-787	O.C.	Kaol. rhyol. w/ 6% glassy qz. up to 5 mm., 10% f'spar (partly kaol) and 3% dolom. inclusions, which are goet. alt'd. Alt. is wkly goet. Color: burnt red.	1	.04	18	.9	<100		
NW-88-788	soil and O.C.	Brn. soil dirt w/ a few rhyol. cobbles.	1	.03	23	2	<100		
NW-88-789	O.C.	Highly kaol. rhyol. w/ mod. str. goet. alt. (5% gossan.) G.mass is milky to deep yw. to lite red.	14	.3	141	23	167		
NW-88-790	O.C.	Kaol. rhyol. w/ 3% glassy qz. up to 3 mm., 10% kaol f'spar Wk. → mod. goet → jar. alt. G.mass is milky wt. to lite yw.	1	.04	72	7	368		
NW-88-791	O.C.	wkly kaol. rhyol. w/ wk. to mod. hm + goet. alt. 7% glassy qz. up to 3 mm., 8-10% kaol. f'spar. G.mass red to milky wt.	3	.06	211	12	<100		
NW-88-792	O.C.	Mod. kaol. rhyol. w/ 3-4% milky to glassy qz. up to 3 mm., 8-10% highly kaol. f'spar. Wk. - mod. goet. - hm. alt. G.mass is milky wt. → lite yw. → pinkish red.	<.0005	<.015	108	8	990		
NW-88-793	O.C.	Mod. kaol. rhyol. w/ 6% milky to glassy qz. up to 4 mm., 10% kaol. f'spar and wk → mod. goet & hm. alt. Color is chaulky wt. to lite yw - to pink.	2	.03	47	4	1500		
NW-88-794	O.C.	Wkly kaol. rhyol. w/ 4-5% glassy subhed. qz. up to 3 mm. 4-5% euhed. biot. up to 3 mm. 7-9% wkly kaol. f'spar. 1% dolom. inclusions. Mod. hm. alt. w/ 1-2% gossan.	1	<.015	50	2	268		

NW-88

Project SILVERTON (684)

ANALYSIS SHEET

Date 6-8-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-795	O.C.	weathered, kaol. grano-diorite w/8-10% subhed. qz up to 5mm., 7-9% euhed. biot. up to 4mm, 15% euhed. plag up to 2mm., 8% euhedral kaol. orthoclase up to 6mm. Glassy matrix. Wk. goet-hm-chl. alt. Dk.gy-green.	1	.03	2	<.25	<100		
NW-88-796	O.C.	V. weathered (gruss) grano-diorite w/chl.-goet. alt. x'stal proportions approx. same as 795. Color: green-brn.	1	.02	9	.3	<100		
NW-88-797	O.C.	Gruss-weathered grano-dior. w/chl.-goet. alt. Cc. vns. (<1%) and cc in matrix as caliche. Color: grn-gy-red.	1	.03	1	<.25	<100		
NW-88-798	O.C.	Mod. kaol. rhyol. w/8% milky qz., 10% kaol. f'spar, >1% cc. vn. >1% silica vn. Hm. alt. along SiO_2 vn. is str. otherwise alt. is mod. goet-hm.	3	.04	44	3	<100		
NW-88-799	O.C.	65% bxd. gy-dk gy. dolom. mod. rex'stallized 4-6% cc. vns. up to 12cm wide! Matrix is hm + cc + goet. 1-2% silica scabs (dk. brn.) Mod. hm + goet. alt.	1	.02	12	.5	<100		
NW-88-800	O.C.	Wkly kaol. rhyol. w/8-10% glassy qz up to 4mm., 8-10% anhk (euhed.), 12% wkly kaol. f'spar + 3-5% hm-alt'd. dolom. inclusions 1-2% goethite. Wk. goet. alt.	1	.03	6	.3	<100		
NW-88-801	O.C.	100% bxd. lite gy. dolom. w/1% SiO_2 veinlets 2% cc vn. Alt. is mod, jar-goet-hm. mod. rex'stallized. Alt. zones are buff-orange.	2	<.015	9	.7	<100		
NW-88-802	O.C.	Str. rex'stallized, 85% silic'd., 100% bxd. dolom. 15% "net" silica vns. 2% cc. vn. Bxa. matrix is mod.-str. hm. alt'd. Matrix is 25-30% of rock.	46	.5	160	6	107		
NW-88-803	O.C.	Str. rex'stallized, 100% bxd gy. dolom. w/10% silic. Silica vns. and dk. scabs of SiO_2 make up silic'n. Matrix is cc+hm. w/ mod. hm + goet alt. Matrix is 12% of rock.	59	1.5	174	12	<100		
NW-88-804	O.C.	100% bxd. buff to lite gy. dolom. w/zones of ls. Mod. rex'stallized cc. vns. ~1% of rock. Alt. is wk. → mod. hm + mod. goet. Matrix is hm + cc.	<.0005	.02	6	.5	<100		
NW-88-805	(sub-surface) O.C.	Alt. rhyol. Mod. to str. hm. alt. w/a few qz. grains preserved and nothing else. Buff colored.	4	.08	21	3	<100		
NW-88-806	O.C.	100% bxd. gy. dolom. w/5-8% silic. "worm" like fossil in the dkr. dolom. Alt. is mod. goet-hm. Bxa. silic. 2-3% cc vn.	2	.2	13	1	<100		
NW-88-807	O.C.	100% bxd., 10% silic'd dk.gy. dolom. w/4-6% cc vn. Alt. is mod. → wk. goet. + hm.	17	.2	92	4	130		
NW-88-808	O.C.	95% unbxd. dk. gy. dolom. wk. → mod. jar → hm. alt. 5% silic'n as dk. brn. scabs.	1	.07	129	7	145		
NW-88-809	O.C.	90% bxd. dk. gy. dolom. Mod. rex'stallized (cc. x'stals up to 4mm) w/mod. str. hm. alt. 2-3% dk. brn. silica scabs.	27	.2	292	8	164		
NW-88-810	O.C.	V. weathered, yet fresh rhyol. 8-10% glassy qz. up to 3mm. 5-6% biot. up to 4mm. 15% slightly kaol. f'spars. Alt. is wkly. chl. — wkly hm. Color: grn-brn.	2	.02	4	.6	<100		

NW-88

Project SILVERTO (684)

ANALYSIS SHEET

Date 6-8-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-811	O.C.	100% bxd., 5% silic'd. lite gy. dolom. wkly rex'stallized. 10% coarse cc. vn. Silica as random vns + dk brn. scabs. Alt. is wkly goet.	2	.1	33	2	118		
NW-88-812	O.C.	80% bxd. dk. gy. dolom. w/4% dk. brn. silica + hm. scabs. Alt is wkly jar-goet. "Worm" fossils ubiquitous.	3	.4	12	2	123		
NW-88-813	O.C.	100% bxd., mod. rex'stallized dk. gy. dolomite. Cc. vn. 3-5% Mod. goet. to hm. alt. Matrix is cc ± hm ± goet.	2	.02	16	.5	<100		
NW-88-814	O.C.	70-30 mix of dolom (70) + rhyol (30). Dolom. is 100% bxd. w/a str. hm-alt'd matrix and mod. goet. alt. in places. Mod → str. rex'stallized. Matrix is 25% of rock. Rhy is mod. goet-hm alt'd. 1-2% silic'd.	4	.03	94	2	<100		
NW-88-815	O.C.	100% bxd. dk. gy. dolom. w/ mod → str. hm. alt. 2% gossan. 8% matrix is cc. + hm. cc + SiO_2 vns 2% of rock. Mod. rex'stallized	5	.03	300	3	<100		
NW-88-817	O.C.	100% bxd. dk. gy → lite gy. dolom. w/ wk. goet. alt. 3% cc. vn. 1% silic'n. as dk. brn. scabs. wkly rex'stallized.	1	.02	29	.5	<100		
NW-88-818	O.C.	100% silic'd, lg. scale bxd. silty dolom. Color: Buff to orange - v. wk. goet. alt. as small (3 mm) spots.	2	.05	91	2	<100		
NW-88-819	O.C.	Massive qz'ite collected in a prospect. Rounded qz. grains (1/4-1/2 mm) make a wt. O.C. w/ fractures having str. hm + goet. alt. 5% hm. gossan. 1% cc. vns.	6	.08	117	5	133		
NW-88-820	O.C.	100% bxd. dk. gy → gy. dolom. w/ mod. to str. hm alt. in matrix. Str. rex'stallized 5-7% cc. vns (coarse) 1% dk. brn. silica scabs.	6	.06	52	2	<100		
NW-88-821	O.C.	100% bxd., bleached dolomite. wkly rex'stallized. Str. hm + goet. alt. w/ 5-6% gossan. Color: lite gy. to buff.	1	.06	20	1	<100		
NW-88-822	O.C.	100% bxd. dk. gy. dolom. v. near (6') rhyol. contact. Has 20-25% matrix, which is str. hm + cc + boride + SiO_2 - 5% gossan. Dolom. is wkly rex'stallized.	1	.02	8	.3	<100		
NW-88-823	O.C.	Kaol. rhyol. w/ 6% glassy to milky qz. up to 4 mm., 10-15% kaol. f'spar + spotty hm. inclusions (was biot.?) 2% gossan. Color: buff to milky wt.	1	.03	3	<.25	<100		
NW-88-824	(select) O.C.	"Net" silica vned (drusy) jsp. w/ v. str. hm + goet. alt'n. 30-40% gossan. Dull dk. brn. Silica is v. fine-grained.	33	.6	200	55	98		
NW-88-825	O.C.	"Net" silica vns. looks like brain coral! V. drusy. wk. jar-goet. alt. gives fresh "faces" a yw. to lite brn. color. 2% gossan. found as layer in massive jsp.	79	.5	57	54	817		
NW-88-826	O.C.	100% silic'd rhyolite with mod. to str. hm. + goet alt. Thin sample as pockets (5% gossan) <1% botryoidal goet. Sample is milky wt. to lite gy. slightly banded.	16	.2	91	24	207		
NW-88-827	O.C.	100% silic. dolomite (jsp) with "net" silica vns. and 10% gossan. Also, some silic'd. qz'ite w/ 3-4% gossan.	86	.4	120	54	832		

Spot samples of best-looking rocks

NW-88

Project SILVERTO (684)

ANALYSIS SHEET

Date 6-8-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-828	O.C.	"Net" veined jsp. w/ mod. to str. hm. alt. 2-3% gossan. 1-2% lg. (up to 5mm) qz. x'stals. Dk gy → brn. color.	250	2	329	73	1570		
NW-88-829	O.C.	Massive jsp. w/ 5% "net" silica vns. Mod. to str. hm. alt. Botr. goet + botr. hm seen in massive part. Silver-gy.	406	2	471	12	331		
NW-88-830	O.C.	Massive jsp. w/ 15-20% "net" silica vns. Str. hm. alt. in vugs w/ 10% gossan. Dk. grey	392	25	306	48	1010		
NW-88-831	O.C.	Massive dk. gy. jsp. w/ 3-5% minor "net" silica vns. Mod. goet. alt.	815	5	800	18	478		
NW-88-832	O.C.	Massive jsp. with mod. hm. alt. 5% gossan. Dk. brn. → reddish brn.	243	3	1277	131	3370		
NW-88-833	O.C.	Highly hm.-alt'd. rhyolite 5% milky qz., highly kaol. f'spars + pumice - 10-15% hm. O.C. is bright red.	4	.04	224	21	138		
NW-88-834	O.C.	80% silic'd. dolom. bxa. w/ rhyol.-injected matrix. 5% "net" silica vns. in jsp. and str. hm. alt. in the rhyol. matrix. 5% gossan.	56	1	372	98	3150		
NW-88-835	O.C.	90% silic'd dolom + rhyol. bxa. (mostly dolom.) 10% "net" silica vns. 2-4% cc. x'stals in vugs. 2-3% gossan. Mod'ly str. hm. alt. Color: reddish brn. → pink.	93	.3	142	56	1420		
NW-88-836	O.C.	100% silicified dolom + rhyol. bxa. w/ rhyol ~ 65%. 5% "net" silica vns. Str. hm. alt. w/ 5% gossan.	86	.6	239	28	469		
NW-88-837	O.C.	Beautiful "net" silica-veined jsp. very frothy-looking. 10-15% gossan in vugs. Str. hm. alt (some irridescent) on vug lining. (4%) Not representative of O.C. (Selected)	550	1	772	137	1250		
NW-88-838	O.C.	75% silic'd. dolom. + rhyol. bxa. (also 10% qz'ite) Dolom. ~60% 8% "net" silica vn. w/ str. goet. alt. (5% gossan) 2-3% cc. x'stals filling vugs. Qzite has 2-3% hm-alt'd spots. Brn-reddish brn	22	.3	374	135	3230		
816			1	<.015	17	.5	<100		

Spot samples of the best-looking rocks.

NW-88

Project SILVERTON 684)

ANALYSIS SHEET

Date 6-21-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-839	O.C.	60% silicified rhy. tuff w/ wk. goet. → hm. alt. 20% chert(?) clasts (gy silica w/ sugary texture). 1-3% gossan.	30	.04	85	54	613		
NW-88-840	O.C.	Highly kaol. rhyol. tuff w/ str. goet → hm alt. 2% milky qz. 10% kaol. f'spar. Milky wt → yw. → red 3% gossan	1	.02	12	.8	767		
NW-88-841	O.C.	Flow-banded rhyol. dyke w/ mod. to str. goet + hm. alt. 5% gossan	<.5	.03	21	.5	229		
NW-88-842	O.C.	Mod. kaol. rhyol. tuff w/ mod. to str. goet + hm. alt. 18% kaol. f'spar. Glassy gr. mass is yw. → brn. → red. 5% glassy qz.	<.5	.05	5	2	210		
NW-88-843	O.C.	Highly kaol. rhyol. tuff w/ 3% pumice. V. wk. goet. alt. Native sulfur(?) as altered light-green zones. 4% alt'd biot. + 5% glassy qz. Milky wt.	<.5	.02	1	<.2	<100		
NW-88-844	O.C.	Kaol. rhyol. tuff w/ highly hm + goet alt'd zones. Select sample from these zones. No gossan. 8% milky qz. 15% kaol. f'spars. Bright red to yw.	1	.04	2	<.2	<100		
NW-88-845	O.C.	Highly kaol. rhyol. tuff w/ v. str. hm + jar. alt. some botr. jar (2-4%), 3% milky qz., 18% kaol. f'spar. No biot. 2% gossan Bright to yw.	1	<.015	40	<.2	1370		
NW-88-846	O.C.	V. str. hm + goet. + jar alt'd rhyol. tuff 4% gossan. 5% milky to glassy qz. 10-15% kaol. f'spar. No biot. Dk. brn. to yw. to red.	<.5	.03	41	.4	9810		
NW-88-847	O.C.	Wkly kaol. rhyol. tuff. Wk. to mod. goet. alt'n. 1-2% gossan. 4% glassy qz., 15% wkly. kaol. f'spar. 3% silicified dolom. as inclusions. Milky wt. to brn.	2	.06	318	21	3530		
NW-88-848	O.C.	Str. goet.-alt'd rhyol. tuff. Entire rock is brn-yw. 3% glassy qz. phenocrysts w/ subhedral character. No gossan.	<.5	.03	471	22	194		
NW-88-849	O.C.	Rainbow-colored O.C. w/ str. goet. + hm. alt'n. Kaol. rhyol. tuff. 5% glassy qz., 8% kaol. f'spar. Yw → red → purple → wt.	2	<.015	81	7	303		
NW-88-850	O.C.	3% silicified dolom., 100% bxd. Gy. Select sample of the qz. vns up to 4mm wide, w/ mod. goet. + hm. alt. Matrix has hm. + goet + SiO_2 + cc.	2	.02	52	2	236		
NW-88-851	O.C.	Select sample of most silicified parts of a gy. dolom. bxa. w/ 5-8% silicification. Qz x'stals up to 1cm long and some chalcedonic qz. vugs. Cc. vn 10%, <1% gossan. Mod. goet. alt'n.	1	.07	8	.4	<100		
NW-88-852	O.C.	Select sample of the most silicified and gossanous rock in the O.C. – a bxd. lite gy. dolom. 5% silicified as scabs and veins, of coarse (1mm) x'talline SiO_2 (looks like qz'ite) 5% gossan. Str. goet. alt'n.	1	.03	10	.5	<100		
NW-88-853	O.C.	50% silified, 100% bxd. dolom. I collected 80% silified and 20% unsil'd. dolom. Coarse ~~xst~~ x'talline silica that looks like qz'ite → jsp. 3% Matrix of bxa. is str. goet.-alt'd. SiO_2 is wkly → mod goet alt'd gossan	2	.02	2	<.2	<100		
NW-88-854	O.C.	60% silicified, 100% bxd. lite gy. dolom. Select sample of only silicified part. 5% "net" silica veins. 1% chalcedonic qz. Str. goet. alt'n. 3-5% gossan. Black	2	.02	29	.3	197		

NW-88

Project SILVERTON (4)

ANALYSIS SHEET

Date 6-22-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-855	O.C.	Nice-looking jsp. w/ 10% "net" silica veining. Mod. to str. goet. alt'n. 5% gossan.	1	.03	267	73	2290		
NW-88-856	O.C.	Str. altered dolomite, becoming sandy-crumbly in places. 5-10% gossan. Str. goet + hm. alt'n. 2-4% silicification. Greyish brn.	<.5	.02	338	101	1150		
NW-88-857	O.C.	Select sample of silicified dolom. w/ str. goet + hm alt'n. 8-15% gossan. Unsilicified dolom. has "worm"-like fossils pervasive. Brn. → orange.	11	.05	1661	137	5130		
NW-88-858	O.C.	Select sample of silicified dolom. Xstals of qz up to 1/2 cm long. Riddled w/ cc. vns. Mod. goet. alt'n. Color: gy → black → silver → brn.	2	.02	10	2	233		
NW-88-859	O.C.	Sample from prospect pit. V.v. str. hm + goet alt'd rhyol. tuff. 90% gossan. V. crumbly. Bright red and orange	6	<.015	2250	261	2110		
NW-88-860	O.C.	100% silicified rhyolite w/ wk → mod. goet. alt'n. 10% of vugs lined w/ x'talline qz. V. little relict igneous texture	3	.16	148	19	2870		
NW-88-861	O.C.	Mod. kaol. tuff w/ mod. goet. + hm. + silica alt'n. 3% silica vns as brn, jsp-looking microx'talline zones up to 5 mm wide. Gr. mass is brn. → red. No bkgt. 8% qz. phenos.	1	.02	33	1	219		
NW-88-862	O.C.	Select sample of 100% silicified dolom. Sample has silica grains 1/2 - 1 mm. which look like qz'ite. Bxa. blocks are all silicified. Alt. is v. wkly goethitic. Color: gy → brn.	1	.02	11	1	<100		
NW-88-863	O.C.	V. str. hm + goet. alt'd tuff. Along fault of unknown offset. (I saw slicks on large planar surface within the tuff). 25% gossan. Red → black → orange.	12	<.124	241	3	<800		
NW-88-864	O.C.	100% bxd. gy. dolom. w/ mod. goet. alt'n in matrix. wkly. rex'stallized. Cc. clots up to 20 cm. across.	1	.02	7	<.25	<100		
NW-88-865	O.C.	V. str. hm.-alt'd. dolom. block within tuff. Forms feature ll(?) along fault trace. 8-10% "net" hematite veins. 50-75% gossan. Dull red.	2	.02	110	5	1280		
NW-88-866	O.C.	Str. hm-alt'd rhyol. tuff 8-10% gossan. Bright red to black. 5% silicification.	6	.08	395	117	4220		
NW-88-867	O.C.	V. str. hm.-alt'd., 10% silicified dolom. 8-10% "net" silica veins. 60-80% gossan. 4% cc. vns. Bright red to orange.	1	.03	751	132	2190		
NW-88-868	O.C.	Str. hm → MnO_2 alt'd rhyol. tuff. Red to jet black. Found as 1' to 10' wide zone by 60' in arcuate length.	1	<.015	3350	26	2520		
NW-88-869	O.C.	Jasperoid w/ 25% "net" silica veins. Str. hm. alt'n. 5-10% gossan. Red to brn.	97	1.54	212	39	2030		
NW-88-870	O.C.	Str. kaol. rhyol. tuff w/ mod. goet + hm. alt'n. as veins. 2-3% gossan. Wt. → yw. → red.	1	<.015	434	6	789		

NW-88

Project SILVERTI (684)

ANALYSIS SHEET

Date 6-22-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-871	O.C.	Rhyol. dyke w/ str. goet. alt. and 3% gossan.	1	.02	1202	27	172		
NW-88-872	O.C.	Jasperoid w/ 5% "net" silica veining. Wk. to mod. hm. alt'n. along "net" veins and in vugs. Gy. to red.	4	.02	292	108	828		
NW-88-873	O.C.	100% silicified rhyol. dyke. 10-15% "net" silica veins. Mod → str. hm. + goet. alt'n. 2-4% gossan. Gy → brn. → red.	343	5.22	1035	80	3760		
NW-88-874	O.C.	Kaol'd. rhyol. tuff w/ mod. hm. + goet. alt'n as veins. 8% glassy qz. No biot. Milky wt. → pink → brn.	44	.09	641	23	217		
NW-88-875	O.C.	100% silicified dolom. bxa. and tuff jumble. Nice-looking w/ 10% "net" silica vns., <1% pyrite in 'fresh' rhyol. portr. ~1% barite x'stals up to 5mm long in a vein. Gy. to red to orange. Str. hm + goet.	75	.80	214	26	538		
NW-88-876	O.C.	Select sample of only the 100% silic. rhyol. + dolom. Scabs of silica on dolom. and v. hard silicified rhyol. wk to mod. hm. alt'n. Gy. to brn. to red.	2	.03	162	16	479		
NW-88-877	O.C.	Beautiful jsp. w/ 25-30% "net" silica veins. 3-4% barite x'stals up to 7mm. Mod. hm. alt'n. No gossan. Silver → brn.	12	.13	186	16	<100		
NW-88-878	O.C.	80% silicified rhyol. tuff. Mod goet. alt'n. 3% gossan. 3% "net" silica veins. Gy. → brn. → orange.	95	.15	929	60	861		
NW-88-879	O.C.	Massive jsp. w/ 2-4% "net" silica veining. Wk. to mod. hm. alt'n. 1-2% gossan. Reddish grey.	8	.06	222	10	355		
NW-88-880	O.C.	Massive jsp. w/ 2% "net" silica vns. Wk. to mod. hm. alt. No gossan. Reddish grey.	19	.21	118	37	850		
NW-88-881	O.C.	Massive jsp. and 100% silicified tuff. Mod. hm. alt'n. 2-4% "net" silica veins. Reddish grey → brn.	2	.02	164	26	772		

NW-88

Project SILVERTON (684)

ANALYSIS SHEET

Date 8/16/88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-882	O.C.	Str. kaol. tuff w/ partially silic'd gr. mass. Silica vns abundant w/ 4"-8" spacing btwn. vns. Str. hm. along vns. 10% glassy qz. phenos. wkly gossan. Milky wt.	<50	.025	395	8	177		
NW-88-883	select O.C.	Str. kaol. tuff w/ silic'd zones nr. qz. vns (~2 cm wide zones) 61% botr. hem. Mod. goet → hm. alt'n. in zones. 8% qz. phenos up to 1/2 cm. Milky wt.	<50	<.015	867	11	<100		
NW-88-884	O.C.	75% silic'd tuff w/ ~10-15% reduced areas containing 10% py. 2% 'net' silica vn. w/ some drusy qz. 4% gossan. Milky wt.	<50	.20	954	29	1870		
NW-88-885	O.C.	35% silic'd tuff w/ str. kaolin in unsilic'd parts. Small scale silica vns (~1/2 cm apart) running N-S 1-2% drusy qz. wk. jar. alt'n.	60	1.37	394	21	1260		
NW-88-886	O.C.	100% silic'd, 20% bxd. tuff (looks like jsp. in places) Relict igneous texture infrequent. 3% drusy qz. 1-2% gossan. Brn. to grey-green Mod. goet → hm. alt'n.	108	2.60	591	97	17500		
NW-88-887	O.C.	30-40% silic'd, 25% bxd. tuff. 75% of sample has str. gossan on it w/ a black outer coating (MnO_2?) 10-15% 'net' silica vns. 8% gossan Mod. to str. goet + hm. alt'n.	88	.59	708	27	2950		
NW-88-888	O.C.	75% silic'd, unbxd. tuff. 10% 'net' silica vns. Mod. to str. hm. alt'n, esp. along silic'n. 1% drusy qz. 3% gossan.	<50	1.69	522	48	1700		
NW-88-889	O.C.	Str. qz. vnd. tuff w/ str. kaol'd f'spar phenos. Mod. to str. goet. + hm. alt'n along qz. vns. 10-15% qz. vns. 3-5% gossan. Most vns. are E-W, parallel to nearby fault.	<50	<.015	305	4	1310		
NW-88-890	O.C.	Silver-brn. jsp. w/ locally abundant gossan. 20% bxd. 5-7% 'net' silica vns. Small bodies within tuff (No dolo. around) Is it really jsp. or silic'd tuff? No igneous texture.	<50	.31	332	53	1330		
NW-88-891	O.C.	V. str. silica-vnd. tuff. 35-40% silica vns, which have mod. to str. hm. alt'n. Glassy qz. phenos up to 4mm. 3% gossan (locally str.)	<50	<.015	1539	129	1710		
NW-88-892	O.C.	100% silic'd, 50% bxd. tuff. Str. hm. alt'n in bxa. matrix. 9% 'net' silica vns. 5% gossan. Rare igneous texture	66	.03	690	161	5160		
NW-88-893	O.C.	Kaol'd, str.-colored tuff. Mod. jar → hm. alt'n. Glassy qz. phenos ~~pr~~ present. Rare qz. vns. w/ str. hm. alt'n. yw → brn → red.	<50	<.015	192	16	481		

NW-88

ANALYSIS SHEET

Project _____ _____

Date _____

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DmH-88 900	O.C.	Small patch of bleached dolo. w. Hem	2	.30	28	214	<100		
901	O.C.	mod argillized mod silicified Tuff w. Goe, tr. Jar	<.5	.04	321	105	<100		
902	O.C.	Tuff - mod. argillized w. silicified mod Goe. w. Jar. We Hem	2	.03	257	42	227		
903	O.C.	Tuff - mod. argillized mod. silicified w. Goe tr. Jar, tr. Hem	<.5	.04	474	20	134		
904	O.C.	Tuff. mod. argillized mod. silicified W. Goe. w. Jar	<.5	.06	243	18	293		
905	O.C.	Tuff - weak argillized w. silicified	3	.03	373	28	136		
906	O.C.	Tuff - w. argillized w. silicified w. Goe. W. Hem	1	.05	562	27	308		
907	O.C.	Tuff - mod. argillized mod. silicified W. Goe tr. Jar	13	.07	625	35	159		
908	O.C.	Tuff - mod argillized mod. silicified W. Goe tr. Jar	<.5	.06	1193	32	181		
909	O.C.	Tuff - mod. argillized. W. Goe tr. Jar	38	.10	353	48	565		
910	O.C.	Tuff - mod-w. argillized. W. Goe. W. Hem.	<.5	.04	194	17	<100		
911	O.C.	Qtz vein + silicified faults about 3" thick a few irratic hairline Qtz veins strong Goe in veins + faults - in mod. argillized tuff	236	.91	1928	85	672		
912	O.C.	several silicified gouge zones to 3" wide a few Qtz veinlets m-s Goe - Tuff mod. argillized w. Goe w. Hem	15	.04	264	36	369		
~~14~~ 913	O.C.	A few silicified faults about 2" wide in mod. silicified + argillized tuff w-m. Goe w. Hem tr. Jar	21	.16	928	35	1360		
914	O.C.	silicified zones + opaline veins 1 per 2 to 4 ft. veins a bit stockworky hairline to 1" silicified zones to 3"	38	.58	2303	54	236		
915	O.C.	just a few silicified zones to 2" wide Tuff mod argillized - w. silica. w-m. Goe w. Hem tr Jar	22	.08	1152	39	630		

Page ____ of ____

DmH-88

ANALYSIS SHEET

Project _____ _____

Date _____

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 916	O.C.	Fault zone silicified ~ 3' thick mod. Goe - ~ 5% diss Py in places, mod. Goe	<.5	.05	70	35	5090		
917	O.C.	Tuff - w-mod. argillized mod. Hem	<.5	.06	24	15	125		
918	O.C.	Tuff - m-w. argillized, silicified fault with some opaline veinlets w. Goe tr. Hem	<.5	.03	165	21	386		
919	O.C.	veinoids of opaline silica & silicification to 1/4" wide ~ 1 per 1 to 5 ft. zone about 50' wide in mod argillized tuff	1	.06	30	6	849		
920	O.C.	Tuff - mod. argillized mod. Goe.	15	.09	1613	34	299		
921	O.C.	Tuff - mod. argillized mod. Goe.	34	.26	1209	42	499		
922	O.C.	Tuff - mod. argillized - w-mod silica w-mod. Goe.	2	.04	791	21	196		
923	O.C.	Tuff - mod. argillized - w-m. silica w-m. Hem - w. Goe.	56	.09	360	22	519		
924	O.C.	Tuff - mod. argillized & silicified - small area of silicified fractures ~ 1% of rock stockworks to 1/4" wide	984	.60	383	85	3670		
925	O.C.	Tuff - mod. argillized - small patch mod. Goe.	4	.04	123	4	268		
926	O.C.	Tuff - w-mod. argillized v.w. Hem	8	.04	73	17	257		
927	O.C.	Tuff - mod. argillized w-mod Hem	2	.04	8	2	100		
928	O.C.	Tuff - mod. argillized w. Goe v.w Hem	5	.04	27	3	108		
929	O.C.	Tuff - w-mod. argillized w. Goe tr. Jar mainly on fractures	6	.05	101	20	270		
930	O.C.	small block of brecciated dolo & ss. pretty well silicified lw. Goe.	88	.13	246	35	1380		
931	O.C.	Tuff - w-mod argillized w. Goe.	2	.05	98	10	156		

DMH-88

Page ____ of ____

ANALYSIS SHEET

Project _____ _____

Date _____

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DmH-88 932	O.C.	Fault Gouge ~ 2 ft thick - strong silica m - strong Hem - strongly argillized on either side	3	<.015	690	59	1560		
933	O.C.	Fault Gouge ~ 2 ft thick strong silica m - strong Hem - strong Sericite? in hanging wall	4	<.015	416	21	603		
934	O.C.	zone about 30' wide of strong sericite or clay in Tuff - strong Hem only in fractures	1	.04	107	7	360		
935	O.C.	Fault Gouge ~ 2 ft thick, some slicks, strong Clay, mod - Strong Hem	2	.04	109	13	178		
936	O.C.	Tuff - w - mod. argillized w. Goe.	1	.04	25	2	153		
937	O.C.	Tuff - mod. argillized w. Goe - w. Hem	3	.05	103	13	532		
938	O.C.	Tuff - mod. argillized w. Goe. tr. Hem	4	.03	82	171	2470		
939	O.C.	Tuff - mod. argillized w. Hem tr. Goe.	2	.03	16	3	1120		
940	O.C.	Tuff - w - mod. argillized m. Goe. w. Hem	4	.03	171	7	779		
941	O.C.	Tuff - mod. argillized w. Goe. mod Hem.	3	.05	202	10	582		
942	O.C.	Tuff - mod. argillized mod. Hem diss + on fractures - tr. Jar.	3	.05	157	15	489		
943	O.C.	Tuff - mod. argillized m - Strong Hem	3	.04	13	1	483		
944	O.C.	Tuff - mod. argillized m - strong Hem diss + fractures	3	.04	16	3	635		
945	O.C.	Tuff - mod. argillized w-m. Hem - v.w. Goe.	1	.03	65	5	176		
946	O.C.	Tuff - mod. argillized w-m. Hem - w. Goe.	1	.03	1452	44	211		
947	O.C.	Tuff - mod-strongly argillized mod. Hem	2	.018	80	11	<100		

DmH-88

Page ___ of ___

Project _____ _____

ANALYSIS SHEET

Date _____

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DmH-88 948	O.C.	Tuff - mod-strongly argillized - many slicks in many directions, w-mod Hem, w. Goe.	<.5	<.015	105	19	116		
949	O.C.	Tuff - mod-strongly argillized tuff - a few slicks parallel to ridge, B.t of Barite in float - w. Goe mainly on fractures	<.5	.015	136	17	<100		
950	O.C.	Tuff - mod-strongly argillized, no big pumice w. Goe tr. Sar.	<.5	<.015	7	<.25	<100		
951	O.C.	Tuff - mod argillized w. Goe tr. Sar.	1	0.03	166	16	787		
952	O.C.	Bx of SS + silicified dolo in tuff matrix strongly silicified, mod. Goe. tr. Barite	7	.16	427	71	464		
953	O.C.	contact of dolo + Bx - dolo weak silica but strong w/ Goe in spots - a few fractures w/ barite	<.5	.02	404	100	1290		
954	O.C.	Tuff - mod argillized w. Hem w. Goe.	1	<.015	40	5	<100		
955	O.C.	silicified brecciated dolo for 5'-10' below tuff contact. w-m Hem + Goe	<.5	<.015	236	46	1010		
956	O.C.	½ silicified dolo w/ w-m Goe + Hem below contact ½ strongly Hematitic mod. silicified Tuff above contact	<.5	<.015	551	34	455		
957	O.C.	brecciated silicified dolo 2' thick below tuff contact w. Goe + Hem	<.5	<.015	181	29	438		
958	O.C.	silicified dolo + ss breccia with some tuff matrix tr. barite w-mod. Hem w. Goe	<.5	.13	295	34	587		
959	O.C.	Same	1	.05	547	40	699		
960	O.C.	Tuff - mod-strongly argillized w-mod Hem diss.	1	<.015	229	36	781		
961	O.C.	silicified SS-dolo brecciate with some tuff matrix w-m-Goe.	4	.06	431	49	2350		
962	O.C.	Same	38	.66	1005	178	1030		
963	OC.	silicified dolo bx just below tuff contact w-mod. Hem	1	.04	90	19	200		

Page ____ of ____

DmH-88

ANALYSIS SHEET

Project _____

Date _____

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DmH-88 964	O.C.	Silicified dolomite breccia w-mod Hem	3	.13	110	53	669		
965	O.C.	Silicified dolo breccia w-mod Hem w. Goe	29	.41	126	47	781		
966	O.C.	silicified SS-dolo bx with some tuff matrix mod Goe, w. Hem tr. Barite	3	.04	88	26	2350		
967	O.C.	silicified dolo bx w/ minor SS some tuff matrix tr. Barite w. Hem w-mod Goe	4	.05	390	33	1030		
968	O.C.	small block of silicified dolo bx mod Goe w. Hem	14	.36	476	21	200		
969	O.C.	Tuff - mod argillized w. Hem + w. Goe mostly on fractures	1	<.015	34	5	<100		
970	O.C.	Tuff - mod. argillized w. Goe.	<.5	<.015	268	11	261		
971	O.C.	Tuff - mod argillized tr. Goe on fractures	2	<.015	226	20	182		
972	O.C.	Tuff - mod. argillized w. Goe - a few veinoids of silica	2	.12	1172	64	307		
973	O.C.	silicified dolo bx - some clasts leached out m-strong Goe + Hem	109	1.3	382	96	4410		
974	O.C.	Tuff - strongly argillized -> w. silica Barite veinlet E-W - a few silica veinoids w-m. Goe	<.5	.02	192	16	167		
975	O.C.	Tuff - strongly argillized w-m Goe . w. Hem	<.5	.02	50	5	<100		
976	O.C.	Tuff - strongly argillized mod. Goe.	1	<.015	178	23	<100		

Page ___ of ___

DmH-88

APPENDIX II

DRILL HOLE SUMMARIES

WESTGOLD
DRILL HOLE SUMMARY

PROJECT: Silverton
NUMBER: 684

HOLE NO.: SL-88-1
LOCATION: Prince Albert Zone
AZIM.:
DIP: 90°

TD: 400'
DATE: August 10, 1988
BY: Nathan M. Wiser

GEOLOGIC SUMMARY	ASSAY SUMMARY
0- 50 - Oxidized argil. tuff	Au: 379 ppb, Ag: 10 ppm
50- 85 - Partially oxidized jasp.	aver. Au: 672 ppb, (high 1240) Ag: 2.3 ppm
85-140 - Pyritic to ox. argill. tuff	most Au <5 ppb, Ag < 0.2 ppm
140-160 - Hematitic wkly clay dolomite	all Au <5 ppb, Ag < 0.2 ppm
160-170 - Oxidized clayey tuff, few qtz vns.	Au <5 ppb, Ag < 0.2 ppm
170-190 - Dolomite, a few silica vns	Au <5 ppb, Ag < 0.2 ppm
190-195 - Quartzite	Au <5 ppb, Ag < 0.2 ppm
195-250 - Limonitic argillized tuff	Au: 50 to <5 ppb, Ag: 0.7 to <0.2 ppm
250-315 - Intermixed jasp. & dolomite	(250-300) Au: 30 - 110 ppb; Ag: 1.8 to < 0.2 ppm (300-320) aver. Au: 173 ppb Ag: 0.8 ppm
315-355 - Weakly quatz veined, argillized oxidized tuff	Au: 15 to 40 ppb Ag < 0.2 ppm
355-400 - Mixed jaspoeriod and dolomite	Au: 10 to 70 ppb, Ag < 0.2 ppm

COMMENTS:

Overall, good looking rock. However, only the near surface tuff and jaspoerid were anomalous.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT: Silverton

NUMBER: 684

HOLE NO.: SL-88-2
LOCATION: Prince Albert Zone
AZIM.:
DIP: 90°

TD: 400'
DATE: August 11, 1988
BY: Nathan M. Wiser

GEOLOGIC SUMMARY	ASSAY SUMMARY
0- 75 - Argillized linonitic tuff	Au: 400 to < 5 ppb Ag: 1.2 to < 0.2 ppm
75-105 - Pyritic argillized tuff	80-115 aver. Au: 368 ppb (high 825), Ag: 1.1 ppm
105-200 - Pyritic argillized tuff Few quartz veins	115-200 nearly all Au < 5 ppb Ag < 0.2 ppm
200-220 - Weakly silicified dolomite	Au < 20 ppb, Ag < 0.2 ppm
220-250 - Mixed jasperoid and dolomite	Au <35 ppb, Ag <0.2 ppm
250-305 - Pyritic argillized tuff	Au <10 ppb, Ag <0.2 ppm
305-320 - Oxidized argillized tuff	Au <15 ppb, Ag <0.2 ppm
320-327 - Quartzite	Au <5 ppb, Ag, <0.2 ppm
327-335 - Oxidized argillized tuff	Au <5 ppb, Ag <0.2 ppm
335-400 - Weakly silica veined dolomite	335-370 Au: 95 to <5 ppb, Ag: 1.1 to <0.2 ppm 370-400 averages, Au: 224 ppb, Ag: 2 ppm.

COMMENTS:

Appeared to have missed the mineralized zone.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT: Silverton

NUMBER: 684

HOLE NO.: SL-88-3
LOCATION: Grant Zone
AZIM. _____
DIP: 90°

TD: 400'
DATE: August 12, 1988
BY: Nathan M. Wiser

GEOLOGIC SUMMARY	ASSAY SUMMARY
0-100 - Oxidized argillized tuff	0-40 Au: 155 to 50 ppb, Ag: 2 to 0.4 ppm; 40-100 Au =<5 ppb, Ag <0.6 ppm
100-110 - Pyritic argillized tuff	Au < 5 ppb, Ag < 0.2 ppm
110-135 - Oxidized argillized tuff	Au =< 5 ppb, Ag < 0.2 ppm
135-185 - Mixed jasperoid and dolomite	Au: 80 to < 5 ppb, Ag: 0.9 to 0.2 ppm
185-200 - Oxidized argillized tuff	Au: 80 to 30 ppb Ag: 6.2 to 0.8 ppm
200-215 - Jasperoid with a few quartz veins	Au: 560 to 225 ppb Ag: 2.7 to 1.4 ppm
215-260 - Partially silicified and veined tuffs	Au: 430 to 10 ppb Ag: 25.3 to 2.3 ppm
260-266 - Jasperoid	Au: 70 ppb Ag: 1.9 ppm
266-360 - Weakly pyritic chloritic tuff	Au: 165 to <5 ppb Ag: 0.9 to <0.2 ppm
360-400 - Sericitic(?) tuff	Au: 20 to 10 ppb Ag <0.2 ppm

COMMENTS:

Some good looking jasperoid. Appears to indicate a roughly vertical N30W trend to mineralization.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT: Silverton
NUMBER: 684

HOLE NO.: SL-88-4
LOCATION: Prince Albert Zone
AZIM. _____
DIP: 90°

TD: 345'
DATE: August 13, 1988
BY: Donald M. Hudson

GEOLOGIC SUMMARY	ASSAY SUMMARY
0- 85 - Moderately silicified oxidized tuff	Au: 125 to <5 ppb Ag: 0.8 to <0.2 ppm
85-110 - Partially oxidized mod. silicified tuff	Au: 10 to <5 ppb Ag: <0.2 ppm
110-171 - Oxidized moderately silicified tuff	Au: 265 to <5 ppb Ag: 2.6 to <0.2 ppm
171-175 - Quartzite	Au: 10 ppb, Ag: 5.5 ppm
176-189 - Brown clay gouge	Au: 35-20 ppb, Ag: 4.2-2 ppm
189-240 - Moderatley siliciation oxidized tuff	Au <10 ppb, Ag <0.4 ppm
240-254 - Mixed jasperoid and dolomite	Au <10 ppb, Ag <0.2 ppm
254-263 - Oxidized argil. tuff	Au: 65 to 10 ppb, Ag <0.2 ppm
263-292 - Dolomite	Au: <20 ppb, Ag <0.2 ppm
292-297 - Oxidized argil. tuff	Au: 60-35 ppb, Ag: 0.5-0.2 ppm
297-306 - Quatzile	Au: 25 ppb, Ag: 0.5 ppm
306-320 - Oxidized argillized tuff	Au: 135 to 80 ppb Ag: 1.4 to 0.5 ppm
320-345 - Variously bleached dolomite	Au: 45 to 15 ppb, Ag: 0.6 to 0.2 ppm

COMMENTS:

WESTGOLD
DRILL HOLE SUMMARY

PROJECT: Silverton
NUMBER: 684

HOLE NO.: SL-88-5
LOCATION: Prince Albert Zone
AZIM.: S 71 E
DIP: 65°

TD: 340'
DATE: August 14, 1988
BY: Donald M. Hudson

GEOLOGIC SUMMARY		ASSAY SUMMARY
0- 7	Oxidized argill. tuff	Au: 240 ppb Ag: 0.8 ppm
7- 55	Mixed strongly quartz veined jasperoid and dolomite	5-35 Au: 175-15 ppb, Ag: 3.7 to 0.7 ppm; 35-55 Au: 400 to 230 ppb, Ag: 4.3 to 1.0 ppm
55- 85	Limonitic dolomite	Au:300-45 ppb, Ag: 1.5-1.0 ppm
85- 93	Pyritic jasperoid	Au: 60 ppb, Ag: 0.4 ppm
93-164	Pyritic argillized tuff w/scattered qtz vns.	Au: 90 to <5 ppb, Ag: 0.6 ppm to <0.2 ppm
164-174	Hematitic dolomite	Au: 20-5 ppb, Ag: <0.2 ppm
174-184	Oxidized argillized tuff	Au: 25-10 ppb, Ag: =<0.2 ppm
184-225	Weakly limonitic dolomite	Au: 180-15 ppb, Ag: 0.4 to <0.2 ppm
225-245	Quartz veined jasp.	Au: 55-5ppb, Ag: 0.4- <0.2 ppm
245-295	Dolomite	Au: 20-<5 ppb, Ag: 0.4-<0.2ppm
295-340	Partially oxidized argillized tuff	Au <10 ppb, Ag <0.2 ppm

COMMENTS:

WESTGOLD
DRILL HOLE SUMMARY

PROJECT: Silverton
NUMBER: 684

HOLE NO.: SL-88-6
LOCATION: Prince Albert Zone
AZIM.:
DIP: 90°

TD: 165'
DATE: August 14, 1988
BY: Donald M. Hudson

GEOLOGIC SUMMARY	ASSAY SUMMARY
0- 15 - Oxidized argillized tuff	Au: 160-10 ppb, Ag: 1.0-0.5 ppm
15- 32 - Strongly quartz-veined jasperoid	Au: 660-590 ppb, Ag: 14.5 - 9.4 ppm; Aver. Au: 602 ppb, 12 ppm
32- 44 - Mixed jasperoid and dolomite	Au: 585-370 ppb, Ag: 46.6 - 19.9 ppm; Aver. Au: 507 ppb, Ag: 31.1 ppm
44- 85 - Partially oxidized argillized tuff	Au: 250 to <5 ppb, Ag: 1.2 to <0.2 ppm
85-120 - Pyritic argillized tuff	Au: 20 to <5 ppb Ag <0.2 ppm
120-137 - Oxidized argillized tuff	Au <5ppb, Ag <0.2 ppm
137-150 - Limonitic, weakly clayey dolomite with a few coarse quartz veins	Au =<5ppb, Ag <0.2 ppm
150-165 - Limonitic, clayey	Au <5 ppb, Ag <0.2 ppm

COMMENTS:

Very good looking hole, hole quit because rig had to move to Artesia.

Up to 10% disseminated pyrite in tuff.

Quartz veining spectacular.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT Silverton

NUMBER 684

HOLE NO. SL-88-7
LOCATION Silver King Zone
AZIM. _____
DIP 90

TD 400
DATE October 13, 1988
BY DMH

GEOLOGIC SUMMARY	ASSAY SUMMARY
0-80 oxidized argillized tuff (quartz-stibnite vein at ~47)	0-80: anomalous Au but mostly less than 200 ppb. Highs: 35-40 430 ppb Au, 45-50 3.9 ppm Ag
80-306 pyritic argillized tuff	80-205: anomalous Au but mostly less than 100 ppb. Highs: 180-185 5.7 ppb Au, 195-200 1.3 ppm Ag
306-314 very pyritic jasperoid	305-315: highs: 140 ppb Au, 1.1 ppm Ag
314-325 pyritic argillized tuff	315-335: highs: 75 ppb Au, 0.5 ppm Ag
334-365 oxidized weakly silicified dolomite	335-365: highs: 355-360' 120 ppb Au, 1.8 ppm Ag
365-370 pyritic argillized tuff	365-385: highs: 60 ppb Au, 1.2 ppm Ag
370-374 hematitic argillized tuff	385-400: <5 ppb Au and 0.1 ppm Ag

COMMENTS:

Jasperoid runs very poorly. A few weakly silicified zones in the tuff kicked but overall a fairly poor hole.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT	Silverton	NUMBER	684
HOLE NO.	SL-88-8	TD	370
LOCATION	Silver King zone	DATE	October 15, 1988
AZIM.		BY	DMH
DIP	90		

GEOLOGIC SUMMARY	ASSAY SUMMARY
5-32 mostly oxidized argillized tuff	5-30: highs 140 ppb Au, 1.1 ppm Ag
32-50 almost totally silicified dolomite, quartz veins, partially oxidized	30-50: highs: 630 ppb Au, 4.3 Ag
50-114 partially oxidized argillized tuff	50-115: all anomalous, most <200 ppb. highs: 280 ppb AU, 6.3 ppm Ag.
114-130 oxidized jasperoid some tuff	115-145: nearly all <200 ppb Au, highs: 210 ppb Au, 7.3 ppm Ag
130-147 partially oxidized argillized tuff	145-170: all <200 ppb Au. highs: 190 ppb Au, 22 ppm Ag
147-167 oxidized fine-grained jasperoid	170-215: all <140 ppb Au. high Ag: 3.6 ppm
175-182 clay gouge	215-370: all <30 ppb Au and 1 ppm Ag
182-215 weakly limonitic dolomite	
215-370 weakly limonitic dolomite with several percent dolomite veins	

COMMENTS:

Several nice jaspoerid zones at the top of the hole, the bottom is pretty dead looking. Jasperoids anomalous in gold but not promising.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT Silverton

NUMBER 684

HOLE NO. SL-88-9
LOCATION Saddle area Northridge
AZIM. _____
DIP 90

TD 400
DATE October 17, 1988
BY DMH

GEOLOGIC SUMMARY	ASSAY SUMMARY
0-10 fine-grained jasperoid	0-10: highs: 270 ppb Au, 2 ppm Ag
10-114 variously bleached very weakly limonitic, weakly dolomite veined dolomite	10-115: all <60 ppb Au, and 0.2 ppm Ag
114-115 argillized tuff	115-190: all <20 ppb Au, and Ag 0.1 ppm
115-142 weakly belached, weakly limonitic dolomite	190-400: all Ag = 0.1 ppm all Au less than 5 ppb with a few 10 ppb
142-165 interbedded quartzite and sandy dolomite	
165-186 very recrystallized dolomite	
186-191 argillized tuff	
191-230 very recrystallized dolomite almost a marble	
230-307 interbedded quartzite, very recrystallized dolomite, and sandy dolomite	
307-340 quartzite with a few fine-grained dolomite interbeds	
340-360 fine-grained dolomite	
360-392 quartizte	
392-400 argillized tuff	

COMMENTS:

Drilled in the little saddle west of the main saddle, the hole is pretty dead except for the top 10 feet. This jasperoid is equivalent to the argillized and silicified dolomite below the thick tuff in holes 10, 11, 12 and 13. Basically a dead hole.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT	Silverton	NUMBER	684
HOLE NO.	SL-88-10	TD	400
LOCATION	Saddle area/Northridge	DATE	October 18, 1988
AZIM.		BY	DMH
DIP	90		

GEOLOGIC SUMMARY	ASSAY SUMMARY
5-15 argillized tuff	5-15: Ag=0.1 ppm, Au <10 ppb
15-34 fine-grained jasperoid weak jasosite	15-35: Au from 200 to 550 ppb Ag from 1.2 to 3.0 ppm
34-70 oxidized argillized tuff	35-55: Au from 5 to 235 ppb Ag from 0.1 to 0.5 ppm
70-110 pyritic argillized tuff	55-110: <5 ppb Au; Ag = 0.1 ppm
110-127 oxidized argillized tuff	110-130: Au from 335 to 415 ppb Ag from 0.1 to 1.1 ppm
127-170 weakly argillized oxidized dolomite a bit of jasperoid	130-170: mostly above 200 ppb Au Au from 45 to 690 ppb, Ag from 0.2 to 3.9 ppm
170-197 brecciated variably bleached dolomite	170-200: Au from 10 to 65 ppb Ag from 0.1 to 0.5 ppm.
197-208 argillized tuff	200-250: mostly 10 ppb Au or higher, Au from <5 to 35 ppb, Ag = 0.1 ppm
208-250 weakly bleached dolomite brecciate with few percent dolomite veins	250-270: Au from <5 to 15 ppb Au Ag from 0.2 to 0.4 ppm
250-254 quartzite	270-400: nearly all <5 ppb Au a few 10 ppb Au, nearly all 0.1 ppm Ag
254-260 variably bleached dolomite brecciate	
260-263 argillized tuff	
263-280 variably bleached dolomite breccia	
280-400 fine-grained dolomite	

COMMENTS:

Lower clayey horizon less argillized than in 11, 12, or 13.
Pretty low values in upper jasperoid and argillized dolomite.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT	Silverton	NUMBER	684
HOLE NO.	SL-88-11	TD	400
LOCATION	Saddle area/Northridge	DATE	October 19, 1988
AZIM.	_____	BY	DMH
DIP	90		

GEOLOGIC SUMMARY	ASSAY SUMMARY
0-111 oxidized argillized tuff	0-100: Au <5 ppb Ag = 0.1 ppm
111-148 oxidized fine-grained to glassy jasperoid a few thin tuff intervals	100-150: Au from 50 to 430 ppb Ag from 0.1 to 2.6 ppm
148-155 oxidized argillized tuff	150-205: Au mostly <5 ppb, a few 15 ppb, Ag <0.3 ppm
155-210 pyritic argillized tuff	205-220: Au from 110 to 370 ppb Ag from 0.1 to 0.6 ppm
210-218 oxidized argillized tuff	220-235: Au from 285 to 880 Ag from 0.8 to 1.4 ppm
218-232 oxidized jasperoid a bit clayey	235-250: Au from 180-940 ppb Ag from 1.1 to 4.6 ppm
232-233 oxidized argillized tuff	250-275: Au from 155-610 ppb Ag from 1.6 to 8.1 ppm
233-250 oxidized jasperoid	275-300: Au from 15 to 75 ppb Ag from 0.2 to 1.5 ppm
250-278 totally argillized dolomite intermittant jasperoid	
278-289 oxidized argillized tuff	
289-300 dolomite breccia a little quartzite	
300-305 argillized tuff	
305-400 fine grained dolomite	

COMMENTS:

Very good looking hole - same zonation as 10, 12 and 13, however values generally less than 0.02 opt Au.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT Silverton NUMBER 684

HOLE NO. SL-88-12 TD 400
LOCATION Saddle area/Northridge DATE October 21, 1988
AZIM. _____ BY DMH
DIP 90

GEOLOGIC SUMMARY	ASSAY SUMMARY
5-25 oxidized argillized tuff	5-25: Au <0.5 Ag from 0.1 to 0.2
25-76 oxidized fine-grained to almost glassy jasperoid	25-65: Au from 30 to 660 ppb (ave. 329), Ag from 0.1 to 2.9 ppm
76-90 oxidized argillized tuff	65-85: Au from 720 to 1380 ppb (ave. 1042.5) Ag from 2.0 to 2.8 ppm
90-140 pyritic argillized tuff	85-95: Au from 35 to 100 ppb Ag = 2.0 ppb
140-144 oxidized argillized tuff	95-140: Au mostly <5 ppb, high: 15 ppb, Ag 0.1 to 0.2 ppm
144-152 jasperoid, a bit clayey	140-170: Au from 210 to 720 ppb (ave. 524) Ag from 0.1 to 6.2 ppm
152-156 oxidized argillized tuff	170-185: Au from 240 to 1250 ppb (ave. 773), Ag from 5.9 to 14.0 ppm
156-185 oxidized totally argillized dolomite with intermittent jasperoid	185-210: Au from 70 to 280 ppb Ag from 0.7 to 2.1 ppm
185-195 soft clayey carbonceous argillized dolomite	210-245: Au <5 to 25 ppb, Ag from 0.1 to 0.3
195-210 oxidized argillized tuff	245-400: Au <5 ppb, Ag mostly 0.1 ppm, a few up to 0.8 ppm
210-245 variably bleached dolomite	
245-395 fine-grained dolomite	
395-400 quartzite	

COMMENTS:

Same zonation as 13, 11, and 10. Very good looking above 195. 20 feet of 0.030 and 15 feet of 0.023 opt Au. Generally not too good.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT Silverton
NUMBER 684

HOLE NO. SL-88-13
TD 400
LOCATION Saddle area/Northridge
DATE October 22, 1988
AZIM. _____
BY DMH
DIP 90

GEOLOGIC SUMMARY	ASSAY SUMMARY
0-35 oxidized argillized tuff	0-30: Au <5 to 60 ppb, Ag from 0.1 to 0.4 ppm
35-77 oxidized fine-grained locally sandy jasperoid	30-35: Au = 520, Ag = 5.4
77-100 oxidized argillized tuff	35-50: Au from 1190 to 4100 ppb (ave. 2697), Ag from 14 to 52 ppm
100-135 pyritic argillized tuff	50-80: Au from 150 to 510 ppb (ave. 313), Ag from 0.7 to 5.9 ppb
135-170 oxidized argillized tuff	80-95: Au from 5 to 80 ppb, Ag from 0.1 to 0.6 ppm
170-207 oxidized totally argillizied dolomite with intermittent jasperoid	95-145: Au = <5 ppb, Ag <0.2 ppm 145-165: Au 55 to 135 ppb, Ag <0.2 to 0.9 ppm
207-220 oxidized argil. tuff	165-200: Au from 210 to 980 ppb (ave. 400), Ag from 1.8 to 3.1 ppm
220-235 bleached dolomite breccia	200-300: Au from 5 to 110 ppb Ag from <0.2 to 0.6 ppm
235-253 argillized tuff	300-400: Au from <5 to 10 ppb, Ag <0.2 ppm
253-260 moderately argil. dolomite-some gossan	
260-400 fine grained dolomite	

COMMENTS:

Top 260 feet pretty good looking, a bit argillized below lower tuff interval unlike 11 or 12. Fifteen feet of 0.079 (or 50' of 0.030) opt Au. Best hole drilled so far.

WESTGOLD
DRILL HOLE SUMMARY

PROJECT	Silverton	NUMBER	684
HOLE NO.	SL-88-14	TD	310
LOCATION	SE of Saddle area	DATE	October 24, 1988
AZIM.		BY	DMH
DIP	90		

GEOLOGIC SUMMARY	ASSAY SUMMARY
0-45 alluvium	45-310: Au <10 ppb, Ag <0.2 ppm
45-110 very weakly argillized tuff	
110-310 oxidized argillized tuff	

COMMENTS:

Top of hole caved so was abandoned. Never reached dolomite, either is deeper or missed slide block encountered in top of holes 10 throug 13. Very dead hole

APPENDIX III

REVERSE-CIRCULATION ROTARY DRILL LOGS WITH GOLD AND SILVER RESULTS

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-1

PROJECT: Silverton County, State: NYE, NV Location: Prince Albert Zone

Coords: N 15840 E 7000 Collar Elev.: 6770 Angle: -90° Bearing:

Date: Collared 8/9/88 Completed 8/10/88 Logged by: N.M.W. Total Depth: 400'

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide (O 5 20)	goeth (W M S)	hem (W M S)	jar (W M S)	COMMENTS	Au (ppb)	Ag (ppm)	Check
05		80	orange-brown-green	—	3%	—	6%	Mostly v-small chips. Silicification of gr. mass mod. 10% clay	-5	.4	
10		75	orange-brown	—	4%	tr.	3%	SAME	-5	-.2	
15		85	orange-brown	—	5%	1-1½%	4%	SAME, increasing clay	35	1	
20		90	reddish brn.	—	3%	60%	5%	SAME, glassy qz. phenos in tuff up to 5 mm.	445	22.7	
25		90	red-yw-brn.	—	10%	20%	5%	SAME, slight increase in silicification	45	2.3	
30		70	milky wt.-orange	—	8%	20%	3%	SAME few phenos visible	365	11.4	
35		60	milky wt.-orange	—	5%	15%	10%	SAME, decreasing clay	170	14.6	
40		90	milky wt.-red	1	—	45%	8%	SAME, slightly oxid. py. in milky wt. tuff. Str. silic.	800	7.3	
45		100	yw-red	—	—	35%	4%	SAME, minor chips of ss.: hm is bright pink-red.	450	1.7	
50		100	yw-red-black	—	10%	30%	—	SAME, 2% chips of jsp. 2-3% chips of dk. grey dolo.	65	.9	
55		100	reddish brn. to grey	tr. → ½	25%	20%	—	Clay disappears. V. finely dissem. py in grey jsp.	1230	3.9	
60		100	grey-pinkish	—	—	10%	—	1% qz. vn. Xtln. jsp. platy chips	70	.5	
65		100	Grey	—	tr.	5%	—	SAME - tr. dolo. vn.	245	.6	
70		100	Black	1	—	5-6%	—	SAME - black jsp.; slightly lgr. chips. Clots of py. + Rare dissem. py.	1240	3.4	
75		100	Black	2½	2%	3-4%	—	SAME - No qz. vn. Rare dolo. vn.; increased dissem. py.	875	2.7	
80		75	Grey + Brown	1-1½	15%	20%	—	Small chips - 60% partially silic. dolo - 40% tuff. Sampler combines 2 intervals	465	2.4	
85		75	Grey + Brown	1	15%	20%	—	Gr. mass in tuff is silic'd. py. found as vns.	580	2.6	
90		95	Buff-orange	—	40%	25%	5-7%	Silic'd gr. mass. 10% glassy qz. phenos. Kaol'd f'spar.	155	1.3	
95		95	Buff-orange	—	30%	10%	?3%	Sampler loses sample on ground - took a few handfuls for sample. SAME -	35	.8	
100		100	orange-milky wt.	1-1½	30%	15%	10%	30% reduced w/ py as crs. clots. Increased clay	15	.3	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-1

PROJECT: Silverton County, State: NYE, NV Location: Prince Albert zone

Coords: N 15840 E 7000 Collar Elev.: 6770 Angle: -90° Bearing:

Date: Collared 8/9/88 Completed 8/10/88 Logged by: N.M.W. Total Depth: 400'

LITHOLOGY

- DOLOMITE
- TUFF
- QUARTZITE

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide (0 5 20)	goeth (W M S)	hem (W M S)	jar (W M S)	COMMENTS	Au	Ag	Check
105		90	milky wt. + orange	3	10%	1-2%	tr.	crs. py. in reduced tuff (85%) v. small chips. 5% clay	10	.3	
110		95	Grey w/ orange chips	4	5%	1-2%	tr.	SAME - 10% oxid. tuff	5	.2	
115		85	milky wt. grey	1½-2	—	—	—	SAME - No oxid. tuff More clay	-5	-.2	
120		90	milky wt.	3	—	—	—	SAME -	-5	-.2	
125		90	milky wt.	3-4	—	—	—	SAME -	-5	-.2	
130		80	milky wt.	3-4	—	—	—	SAME - 20% clay, less silic'd.	-5	-.2	
135		95	orange	—	80%	5-7%	—	oxid. tuff w/ minor reduced chips (3-4%) 15% clay	-5	-.2	
140		95	orange w/ red + grey chips	—	70%	15%	—	oxid. tuff w/ 5% dolo. tuff is almost unsilic'd.	-5	-.2	
145		5	Grey + pinkish grey	—	—	5%	—	almost unalt'd. dolom.: wk. hm. is pink. 5% clay	-5	-.2	
150		10	Grey	—	—	8%	—	SAME - more alt'd. 10% clay 4% dolom. vn.	-5	-.2	
155		3	Grey	—	—	2-3%	—	SAME - 5% clay 8% dolo vn.	-5	-.2	
160		20	Grey + yw-wt.	—	5%	5%	—	Dolom. is the same. Tuff (65%) is slightly silic'd + has 10% clay	-5	-.2	
165		80	Buff	—	35%	7%	tr.?	Tuff is wkly silic'd. 10-15% clay	-5	-.2	
170		95	Buff to pinkish	—	40%	15%	tr.?	SAME - more clay	-5	-.2	
175		35	Grey w/ red chips	—	tr.	15-20%	—	85% dk. grey dolom. w/ v. wk. silica vns. 15% Tuff as above	-5	-.2	
180		15	Grey	—	—	5-8%	—	Dk. grey dolom. w/ rare dolom. vn. Mod. rex'stallized	-5	-.2	
185		50	Grey, red, orange wt.	—	15%	35%	—	60% grey dolom. bxa 40% tuff dike(?) (silic'd)	5	-.2	
190		55	Grey, red, orange wt.	—	15%	35%	—	SAME - minor cc + dolom. vn.	5	-.2	
195		20	pink + wt.	—	—	25%	—	85% orthoqzite w/ wk. hm + silica cement. 15% tuff dike (?)	-5	-.2	
200		80	milky wt. yw	tr.	tr.	5-7%	—	8-10% glassy qz. phenos up to 6 mm. Slightly oxid. py.	-5	-.2	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-1

PROJECT: SILVERTON County, State: NYE, NV Location: Prince Albert Zone

Coords: N 15840 E 7000 Collar Elev.: 6770 Angle: -90° Bearing:

Date: Collared 8/9/88 Completed 8/10/88 Logged by: N.M.W. Total Depth: 400'

LITHOLOGY

DOLOMITE
SANDSTONE
TUFF

ALTERATION

ARGILLIC
QUARTZ VEINING
SILICIFICATION
SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au (ppb)	Ag (ppm)	Check
205		85	Brown + orange	—	15-20%	5-7%	—	Clay-alt'd tuff w/ qz. phenos up to 4mm.	-5	-.2	
210		85	orange	—	10-12%	3%	—	5-7% brn. ss. w/ MnO_2? dendrites. Same tuff as above	-5	-.2	
215		75	Brn.-grey	—	tr.	5%	—	65% brn. ss as above w/ crs. cc. vn. 35% wkly recrystallized dolo.	-5	.4	
220		— ?	Brn.	—	—	—	—	Brn. wkly calcareous mud w/ 5% tiny chips - Gouge?	10	-.2	
225		100	Buff + dk. grey	—	3-4%	4%	—	Clay-alt'd tuff w/ minor qz. vn. Slight silic'n of tuff.	5	.2	
230		100	Deep yw to wt.	tr.	8%	—	tr.?	v. small chips. 15% qz. vn. less clay; well silic'd.	10	-.2	
235		100	Deep yw to pink	½-1	10%	2-3%	—	SAME - 2% clay, less qz. vn. ≥5% gossan.	-5	-.2	
240		100	Deep yw. + wt.	tr.?	10%	tr.	—	SAME - 5% qz. vn. 2-3% gossan 2% clay	15	.3	
245		100	Brn. + orange + dk. grey	½	4-5%	tr.	—	SAME - 2% bxd + silic'd dolo. Tuff has 1-2% crs. py - and is well-silic'd.	50	.6	
250		100	pinkish brown to wt.	tr ?	1-2%	3-5%	—	SAME - qz. vn. are milky wt. (4%); less dolo.	35	.7	
255		90	dk. grey to brn.	tr.	tr.	3-4%	—	Dk. grey partially silic'd. dolo. w/ 2-3% crs xtln. dolo. vn.	45	.7	
260		90	dk. grey to orange + wt.	—	2%	—	—	Wk. silica vn in dolo. Mod. silic'n. in dolo (55%) and tuff (45%)	65	1.2	
265		95	dk. grey to brn.	—	3-4%	tr.	—	SAME - crs. cc. vn w/ x'stln hm. (3% cc.) (No tuff) 2% gossanous silic'd wt vn.	110	.8	
270		100	dk grey to brn.	—	3-4%	tr.	—	Gossanous, silicified dolom. Dolom. vn. w/ x-cutting qz. vn.	85	1.8	
275		95	dk. grey to reddish brn.	—	2-3%	2-3%	—	SAME, no lg. dolo. vns. or qz. vn.	40	.8	
280		100	grey to reddish brn.	—	tr.	1-2%	—	SAME, less gossan, 3% wt. qz. vns.	50	.6	
285		100	Grey	—	½-1%	tr.	—	SAME, small ang. chips wk. Fe-ox. stn on fracs.	35	.4	
290		100	Grey to dk. grey	—	tr.	1-1½%	—	SAME No gossan	35	-.2	
295		100	Grey to dk. grey	—	1-2%	—	—	SAME - 25% bxd.	30	.8	
300		100	Buff + Grey	—	1-2%	—	—	SAME - unbxd.	50	.2	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-1

PROJECT: SILVERTON County, State: NYE, NV Location: Prince Albert Zone

Coords: N 15840 E 7000 Collar Elev.: 6770 Angle: -90° Bearing:

Date: Collared 8/9/88 Completed 8/10/88 Logged by: N.M.W. Total Depth: 400'

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
305		100	Grey	—	3-4%	tr.	—	8% bxd, 100% silic'd dolo. interlocking grains tr. 'net' silica vn.	190	1.1	
310		100	Grey	—	2%	—	—	SAME - less bxn. 3% qz. vn. 85% silic'd.	90	.6	
315		100	Dk. grey	—	1-2%	—	—	SAME - 50% silic.d Fe ox. stn on frac.s 10% bxn	180	.5	
320		95	orange-brn. to red	—	3-5%	4%	—	Highly silic'd tuff 2% qz vn. wk. clay	230	.9	
325		85	orange + wt.	—	10-12%	3%	tr.	SAME - More clay 3% qz vn.	35	-.2	
330		85	Deep yw to wt.	—	10%	tr.	2%	SAME - tr. 'net' vn. 5% qz. vn.	25	-.2	
335		75	yw to wt.	—	tr.	—	2%	SAME - 3% qz. vn.	30	-.2	
340		65	yw to wt.	—	4%	—	—	SAME - wk. argillization 1% qz. vn.	15	-.2	
345		70	yw to wt.	—	3%	½-1%	—	SAME - tr. qz. vn.	20	-.2	
350		60	yw. to wt.	—	3%	tr.	tr.	Zones of str. silic'n. (15%) tr. qz. vn. wt. f'spar str. clay	15	-.2	
355		60	brn to wt.	—	6%	1-2%	tr.	SAME -	40	-.2	
360		65	wt. + dk. grey	—	tr.	—	—	50% str. silic'd. wt. tuff 50% partially silic'd dolo. w/ 5% tiny qz veinlets	10	-.2	
365		75	dk. grey	—	1-2%	—	—	~75% silic'd dolo. w/ qz. veinlets persisting. Fe ox. stn. on frac's.	10	-.2	
370		85	dk. grey + brn.	—	2-3%	tr.	tr.	65% silic'd dolo as above 35% highly silic'd tuff	20	-.2	
375		70	dk grey w/ brn + wt. chips	—	1%	½-1%	—	85% silic'd dolo as above 15% silic'd tuff w/ wt. f'spar	45	-.2	
380		90	dk. grey w/ brn + wt. chips	—	1%	tr.	—	SAME - dolo. is 95% silic'd and has 2-3% qz. vn. tuff may be lod frag.	50	-.2	
385		?25	Grey	—	½-1%	—	—	25% (?) silic'd dolo. w/ wt. dolo. vns. Mod. rex'stallized. Wk Fe ox stn.	65	-.2	
390		5-10	Grey w/ wt. + pink chips	—	1-2%	1%	—	wkly silic'd dolo. w/ 'spaghetti' fossils and 7% dolo. vn. Mod → str. rex'stallized	70	-.2	
395		2	Grey w/ wt. chips	—	½%	tr.	—	SAME - unsilic'd. alt'n. is Fe ox. stn (wk.)	50	-.2	
400		½	Dk. grey	—	tr.	—	—	Dk. grey unsilic'd. dolo. w/ tiny dolo veinlets.	25	-.2	

TD-400'

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-2

PROJECT: SILVERTON County, State: NYE, NV Location: Prince Albert Zone

Coords: N 15250 E 6960 Collar Elev.: 6720 Angle: -90° Bearing:

Date: Collared 8/10/88 Completed 8/11/88 Logged by: N.M.W. Total Depth: 400'

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide (0 5 20)	goeth (W M S)	hem (W M S)	jar (W M S)	COMMENTS	Au (ppb)	Ag (ppm)	Check
05		90	milky wt.-grey-yw.	—	2%	—	5%	str. silic'd tuff w/ silic dolo lithics and 10% qz. phenos. Wk. arg'n. V. small chips	160	.6	
10		85	greenish-milky wt lite yw.	—	tr.	—	2-3%	SAME - stronger argillization	125	.4	
15		85	greenish milky wt	—	½%	—	2%	SAME -	135	.3	
20		90	milky wt. to brn.	—	1½%	—	4%	SAME - str. clay development	195	.6	
25		90	milky wt. w/ brn. chips	—	½%	—	1%	SAME - silic'n weaker	210	.5	
30		90	milky wt.	—	tr.	—	½%	SAME - slightly stronger silic'n.	400	1.2	
35		95	greenish milky wt	—	½%	—	1-1½%	SAME - str. silic'n.	335	1.0	
40		95	greenish milky wt.	—	tr.	—	2%	SAME -	110	.5	
45		95	yw ish milky wt.	tr.	1%	—	2½%	SAME - tr. slightly oxid. py (?)	60	.3	
50		95	yw. + milky wt	tr.	½%	—	3%	SAME -	75	.4	
55		95	yw + milky wt.	tr (?)	½-1%	—	2%	SAME - slightly weaker silic'n.	70	.3	
60		100	yw - milky wt.	—	tr.	—	2%	V. wk. silic'n. V. v. small chips	50	.2	
65		100	milky wt. + brn.	tr.	1%	—	1½%	V. str. clay v. wk. silic'n.	10	.2	
70		100	yw ish - milky wt.	tr.	tr.	—	1½%	SAME - stronger silic'n. tr. oxid. sulfide (py?)	-5	-.2	
75		100	yw. ish - milky wt.	tr. (?)	tr.	—	1½%	SAME -	-5	-.2	
80		100	milky wt + dk. grey	5-6%	½%	—	1%	SAME - increased silic'n clots of py + pyrrh (?) str. clay.	25	-.2	
85		100	Brn. + wt.	1-2%	10-12%	½-1%	2%	str. silic'n; V. oxid. interval 1-2% gossan.	825	2.7	
90		100	Blue-grey + brn. chips	4-5%	1%	—	½%	V. reduced interval fine-gr. py + pyrr (?) Cont'd small chips	80	.2	
95		100	Blue-grey + brn. chips	4-5%	1%	—	½%	SAME -	80	.3	
100			Grey	4%	—	—	—	Almost 100% reduced, silicd tuff. Dissem. py.	310	1.1	

DRILLING

A total of 5130 feet was drilled in 14 reverse-circulation rotary holes at Silverton in 1988. The holes were drilled in the Prince Albert, Grant, Silver King and Northridge zones. Drill hole locations are shown on Figure 2, Plates 1A, 1C, 1D, 2A, 2B, 2C, 3A, 3B and 3C. Table 2 summarizes the best intercepts in each zone. Drill hole summaries are given in Appendix II. Drill logs with gold and silver values are shown in Appendix III. Figure 12 shows drillsite SL-88-5 and Figure 13 shows drill site SL-88-11. Plates 4A, 4B and 4C are cross sections through the drill holes.

The drilling program was designed to test the following:

1. In the Prince Albert zone, holes were to test the surface gold anomalies in the jasperoids and network quartz veining and determine whether the tuff carried any values (Plate 4A).

2. In the Grant Zone, holes were to test vertical extent of jasperoids and see if mineralization extended to depth (Plate 4A).

3. In the Silver King zone, holes were to test whether the quartz-stibnite veins intersecting the dolomite slide blocks might produce mineralization (Plate 4B).

4. In the Northridge zone, holes were to test the extent of the surface gold anomalies in the jasperoid and possible hidden mineralization (Plate 4C).

The drill results indicate the following:

1. Significant gold values are largely confined to the jasperoids and in some cases the immediately adjoining tuff. However, there were many jasperoid encountered that lack appreciable gold mineralization. Intensity of quartz veining is not related to gold values, in fact jasperoids lacking quartz veins tended to have higher gold values. Jasperoids are difficult to predict at depth based on surface geology projected horizontally. Jasperoids tend to occur in a somewhat vertical stacking as shown in the Prince Albert and Grant zones. Ore grade gold tends to be in thin zones generally less than 20 feet thick and only make up a small portion of the thickness of a given silicified slide block, although nearly all of the jasperoids contain elevated gold values.

Table 2 - Summary of Best Intercepts

Prince Albert (1650 feet in 5 holes)

Hole #	Angle	Interval (ft)	Thickness (ft)	Au (opt)
SL-88-1	90°	35-75	40	0.018
		55-75	20	0.021
SL-88-2	90°	80-85	5	0.024
		105-115	15	0.012
SL-88-5	-65°	35-45	10	0.012
SL-88-6	90°	15-45	30	0.016

Grant (400 feet in 1 hole)

Hole #	Angle	Interval (ft)	Thickness (ft)	Au (opt)
SL-88-3	90°	205-210	5	0.016

Silver King (770 feet in 2 holes)

Hole #	Angle	Interval (ft)	Thickness (ft)	Au (opt)
SL-88-7	90°	180-185	5	0.017
SL-88-8	90°	35-40	5	0.018

Northridge (2310 feet in 6 holes)

Hole #	Angle	Interval (ft)	Thickness (ft)	Au (opt)
SL-88-10	90°	30-35	5	0.016
		130-140	10	0.019
SL-88-11	90°	120-125	5	0.013
		240-250	10	0.021
		260-270	10	0.015
SL-88-12	90°	65-80	15	0.034
		45-85	40	0.022
		165-180	15	0.024
		140-180	40	0.019
SL-88-13	90°	35-50	15	0.079
		30-55	25	0.053
		180-190	10	0.023

Figure 12 - Photograph of drill site SL-88-5 in Prince Albert zone looking west. Network quartz veined dolomite on knoll to left. Quartzite and dolomite caps Twmt to right.

Figure 13 - Photograph of drill site SL-88-11 in Northridge zone looking east. Photograph taken from jasperoid outcrop toward argillized Twmt in saddle with weakly silicified Twmt in background.

APPENDIX IV

X-RAY DIFFRACTION RESULTS

TO: Files DATE: November 23, 1988

FROM: D. M. Hudson

RE: X-ray Diffraction Analysis of Samples from Silverton, Nevada

Pulps from drill holes at Silverton were analyzed with CuKα radiation (red-line tracing). The samples were reanalized after treatment with ethelene glycol solution to check for expasive clays (blue-line tracing). Results are listed below with approximate abundances of mineral species. The I-M ratio is the number of parts illite randomly interstratified with the number of parts montmorillonite.

SL-88-1, 30-35: 80% quartz, 15% illite-montmorillonite (I-M ratio = 7:1), 5% kaolinite.

SL-88-1, 120-125: 55% quartz, 15% illite-montmorillonite (I-M ratio = 5:1), 10% calcite, 10% dolomite, 5% kaolinite, 3% pyrite.

SL-88-2, 70-75: 70% quartz, 20% illite-montmorillonite (I-M ratio = 4:1), 5% jarosite, 5% kaolinite.

SL-88-2, 100-105: 60% quartz, 20% illite - montmorillonite (I-M ratio = 6:1), 5% kaolinite, 3% pyrite.

SL-88-3, 220-225: 60% quartz, 15% calcite, 10% dolomite, 10% illite-montmorillonite (I-M ratio = 6:1), 5% kaolinite.

SL-88-3, 235-240: 95% quartz, 5% kaolinite, trace calcite.

SL-88-3, 380-385: 75% quartz, 15% illite-montmorillonite (I-M ratio = 6:1), 5% calcite, 5% unknown mineral.

SL-88-4, 35-40: 65% quartz, 15% kaolinite, 15% illite montmorillonite (I-M ratio = 5:1), 5% jarosite, trace calcite.

SL-88-4, 180-185: 45% quartz, 15% dolomite, 15% calcite, 15% kaolinite, 10% illite-montmorillonite (I-M ratio variable from 20:1 to 2:1).

SL-88-6, 65-70: 80% quartz, 15% illite-montmorillonite (I-M ratio = 2:1), 5% kaolinite.

SL-88-6, 100-105: 70% quartz, 15% illite-montmorillonite (I-M ratio = 6:1), 5% calcite, 3% kaolinite, 3% pyrite.

SL-88-7, 50-55: 70% quartz, 20% kaolinite, 10% illite-montmorillonite (I-M ratio = 6:1).

SL-88-7, 80-85: 75% quartz, 15% illite-montmorillonite (I-M ratio = 7:1), 5% kaolinite, 4% pyrite.

SL-88-7, 170-175: 80% quartz, 10% illite-montmorillonite, 7% gypsum, 5% pyrite.

SL-88-8, 175-180: 65% quartz, 20% alunite, 15% halloysite.

SL-88-10, 50-55: 80% quartz, 20% kaolinite.

SL-88-10, 85-90: 70% quartz, 20% illite-montmorillonite (I-M ratio = 6:1), 10% kaolinite.

SL-88-10, 135-140: 85% quartz, 10% illite, 5% gypsum.

SL-88-11, 5-10: 60% quartz, 20% kaolinite, 10% illite-montmorillonite (I-M ratio = 6:1), 3% pyrite.

SL-88-11, 175-180: 75% quartz, 10% kaolinite, 10% illite-montmorillonite (I-M ratio = 6:1), 3% pyrite.

SL-88-12, 115-120: 60% quartz, 20% illite-montmorillonite (I-M ratio = 6:1), 20% kaolinite.

SL-88-12, 165-170: 75% quartz, 15% illite-montmorillonite (I-M ratio = 12:1), 10% kaolinite.

SL-88-12, 185-190: 75% quartz, 10% kaolinite, 10% illite, 5% pyrite.

SL-88-13, 20-25: 70% quartz, 15% illite-montmorillonite (I-M ratio = 5:1), 10% kaolinite, 3% calcite, 3% jarosite.

SL-88-13, 100-105: 65% quartz, 15% illite-montmorillonite (I-M ratio 6:1), 10% alunite, 10% kaolinite.

SL-88-13, 175-180: 80% quartz, 10% kaolinite, 5% alunite, 5% illite.

SL-88-13, 185-190: 70% quartz, 10% alunite, 10% kaolinite, 10% illite.

APPENDIX V

LIST OF CONTRACTORS USED

Brown Drilling
3640 Skylark
Kingman, AZ 86401
(602) 757-1920

Chemex Labs, Inc.
994 W. Glendale Ave., Suite 7
Sparks, NV 89431
(702) 356-5395

Cooper and Sons, Inc.
P.O. Box 683
Ely, NV 89301
(702) 289-2669

C.S.I.
P.). Box 501
McCall, ID 83638
(208) 634-7607

Paul Lechler
Box 834
Virginia City, NV 89440
(702) 847-9172

S.M. & S. Neilsen Exploration
P. O.Box 310
Battle Mountain, NV 89820
(702) 635-2038

Dan Russell
Russell Ranches
P.O. Box 339
Folsom, CA 95630
(916) 933-2403

Geochemical Services
3805 Atherton Road
Rocklin, CA 95677
(916) 624-9701

Karen Behm
P.O. Box 2753
Sparks, NV 89432
(916) 587-5606

Lynn M. Schilling
1301 Royal Drive
Reno, NV 89503
(702) 849-1730

University of Nevada
Reno, NV 89557

Project Silverto

DmH-88

ANALYSIS SHEET

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DmH-88 300	O.C.	Chalcedonic veins up to 1/2" wide N70E 80S mod-S. Goe, in Kaol. Silic. Tuff.	4	.014	591	41.7	1350		
301	O.C.	Chalcedonic veins to 1/4" wide with a few xtls of Stibnite in Tuff., mod Kaol, mod Silic, Wk Goe	32	.074	348	22.9	515		
302	O.C.	Jasperoid, dark brown, Strong Goe, well bx at contact with tuff dike	975	2.42	417	115	1110		
303	O.C.	erratic Silicified zones up to 2" wide in somewhat brecciated dolo., weak hem	184	1.33	179	107	1090		
304	O.C.	Hematitic strongly rextlized dolo. several silicified veinoids to 2" wide	9	1.38	80.6	49.1	<93		
305	O.C.	strongly brecciated Qtzite in silica cement S. Goe., just above tuff dike contact	4	<.014	513	197	138		
306	O.C.	weak zones of brown silica in moderately brecciated rextlized dolo	3	<.014	234	15.0	<93		
307	O.C.	strongly brecciated Qtzite, locally strong Goe + Hem	21	.144	156	50.2	1760		
308	O.C.	strongly Hematitic strongly rextlized dolo.	3	<.015	25.1	6.75	<97		
309	O.C.	fairly strongly silicified dolo, very Brecciated, brownish	3	<.014	55.8	13.3	<95		
310	O.C.	fairly strongly silicified very brecciated dolo with clasts of Qtzite + Tuff - Brownish weak Hem	3	<.014	17.4	3.41	<93		
311	O.C.	Qtz Sandstone w/ calcite cement - 1/2 sample weakly silicified dolo at contact 1/2 sample	4	<.015	29.2	7.84	<98		
312	O.C.	Brecciated dolo., a few calcite + dolo veinlets weak Hem.	3	<.014	5.24	.659	<96		
313	O.C.	weakly hematitic, strongly rextlized, bx dolo	104	.140	57.9	35.2	546		
314	O.C.	weakly hem., strongly, rextlized dolo. minor calcite, minor bx	2	<.015	1.38	.728	<99		
315	O.C.	weakly hem., strongly rextlized dolo. whitish - some bx	2	<.014	3.58	3.64	<94		

DmH-88

DmH-88

ANALYSIS SHEET

Project Silverton

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DmH-88 316	O.C.	strongly rextlized dolo - some siltly weak hem minor bx	2	<.014	<.966	<.242	<97		
317	O.C.	strongly rextlized dolo. v.w. hem. minor bx	3	<.014	2.97	.443	<95		
318	O.C.	strongly rextlized dolo w. hem.	2	<.014	<.951	<.238	<95		
319	O.C.	brecciated Qtzite + mod. silificed dolo. mod Goe in Qtzite - silicifier zones in dolo. brown	244	2.11	293	77.8	796		
320	O.C.	mod. silicited bx dolo., w. Goe brownish, a few Qtz veinlets	84	.831	47.6	34.5	597		
321	OC	Jasperoid, breccia, vuggy Qtz in places - w-m Goe - w Jar	108	11.1	82.6	20.5	1420		
322	OC	spotty (~10%) silicited brecciated dolo. a few Qtz veinlets	54	1.91	50.8	38.0	319		
323	OC	mod. silicited dolo. bx, brown - several druzy Qtz veinlets	58	1.15	122	71.0	995		
324	OC	weakly silicified dolo bx, brownish	46	.395	83.8	24.9	543		
325	OC	partially silicified dolo bx + Jasperoid very rextlized dolo - some Qtz veinlets - strong Goe	204	2.44	128	87.9	1260		
326	OC	Jasperoid, breccia, much of the breccia matrix now Xtline Qtz + fine Qtz veinlets mod Goe.	239	15.9	339	87.9	220		
327	OC	fine grained Dolo., rextlized, vuggy calcite + dolo veinlets to 1mm wide 3%	2	.022	4.45	.621	<99		
328	OC	Dolo, fine grained, whitish	2	<.015	<.967	<.242	<97		
329	OC	sandstone and some dolo Tanish	3	<.015	9.27	4.99	<99		
330	OC	X bedded Sandstone medium tan sand	3	.018	5.76	2.44	<97		
331	OC	Qtz sandstone, a few near vertical veinoids to 1mm wide of Qtz - vvw limonite	1	<.015	6.05	2.50	<98		

DmH-88

DMH 88

ANALYSIS SHEET

Project Silvert

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 332	O.C.	sandstone - some qtz veinoids to 1mm wide VVW limonite	2	<.015	6.17	4.49	185		
333	O.C.	fine grained sandstone - sort of jasperoid looking - w-m Goethitic dolo at base	2	.038	63.4	35.3	884		
334	OC.	ss. very jasperoid looking a few Qtz veinoids 1mm wide, VW limonite	2	<.015	47.6	7.83	<97		
335.	O.C.	Qtz ss. jasperoid looking weak Goe.	2	<.015	19.2	9.40	312		
336	O.C.	sandy dolo some X bedding - bx - mod silicification w. Goe.	2	<.015	1.74	1.06	<98		
337	O.C.	sandy dolo with thin ss interbeds - 3-5% brownish silicification	1	<.015	7.71	2.51	102		
339	O.C.	Heavily net veined completely silicified or has dolo clasts leached out, leaving voids. abundant Stibnite & Stibiconite	1350	40	521	10700	<1		
340	O.C.	BX dolo. ~2% irregular Qtz veinlets 4% dolo veinlets as filling between fragments	54	.7	91	58	113		
341	O.C	brecciated dolo. 10% qtz filling matrix 5% dolo veins	53	59	107	141	259		
342	O.C.	Strong zone of Qtz filling & partial replacement about 3' wide ~NW in brecciated dolo.	64	11	38	17	128		
343	O.C	a few Qtz veins to 1" wide ~E-W in bx dolo - weak carbonate veining	13	3	10	10	<100		
344	OC	relatively unbrecciated dolo - 1% dolo veins <1% silica hairline veins	2	.3	6	2	<100		
345	OC	relatively unbrecciated dolo - finely laminated locally bleached - trace silica veinlets 2% dolo veins	6	2	9	4	<100		
346	OC	weakly bx gray dolo, <1% silica veinlets minor dolo veins	8	2	16	4	<100		
347	OC	jasperoid & Qtz net veining zone about 3' wide ~N15E in mod brecciated dolo	29	3	31	9	100		
348	OC	Strong Qtz net veining up to 2 ft wide up to 5% Qtz veins in bx dolo nearby	54	41	3.6	32	<100		

DMH-88

DmH-88

ANALYSIS SHEET

Project Silver

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DmH-88 349	OC	dolo - strong dense silica veining about 5' wide - roughly E-W	57	9	57	37	310		
350	OC	Jasperoid about 3' wide, some dense Qtz veining - ~ E-W	144	45	46	39	234		
351	OC	Dolo bx, gray, weak dolo veining tr. Qtz veining	2	.2	22	4	<100		
352	OC	Jasperoid ≈ N70W about 3' wide zones out to silica veining in dolo bx	73	2	206	58	831		
353	OC	mod. silicified zone in generally unbx dolo about 3' wide - follows bedding, strong dolo veining	20	.8	62	6	109		
354	OC	very friable mod. Kaol. Tuff - weak Goe low angle dike	4	.04	51	5	110		
355	OC	Bx dolo, tr. silicification 2% dolo veins	8	.2	17	2	<100		
356	OC	Bx dolo 4% dolo veins, 1% silica veins	5	.2	9	2	<100		
357	OC	strong coarse Qtz net veining - zones up to 3 ft wide - calcite xtls up to 1cm in places associated w/ chalcedony w-m. Goe.	37	53	33	60	162		
358	OC	Bx dolo - a few dolo veins	6	.4	5	3	<100		
359	OC	Bx dolo - very few dolo veins	5	.09	6	2	<100		
360	OC.	Bx dolo - 3% silica veining - 3% dolo veining (pink)	5	.4	5	1	<100		
361	OC	~20% silicification as matrix filling in dolo bx	72	.4	51	4	114		
362	OC	not very bx, highly rextlized dolo (pinkish) ~5% silicification	1	.03	19	4	<100		
363	float	w-mod Kaol. Tuff weak Goe.	3	.03	92	6	170		
364	OC	bx gray & spotily bleached dolo	11	.13	13	4	<100		

DmH-88

DmH-88

ANALYSIS SHEET

Project Silver

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DmH 88 365	OC.	Bx gray dolo - locally coarsely rextline vw Hem	4	.1	19	3	117		
366	OC	Bx gray dolo, 1-3% net silica veining	31	2	103	3	<100		
367	OC	Tuff + bx dolo contact - dolo a bit bleached local strong net Qtz veining, restricted to contact	45	2	132	16	333		
368	OC	dark gray bx dolo	1	<.015	4	1	<100		
369	OC	Very degraded w-m Kaol. tuff w. Goe	5	.04	113	5	<100		
370	OC	relatively unbrecciated gray dolo ~3% net silica veining - some dolo veining, w. Hem	6	.04	18	2	<100		
371	OC	mostly unbrecciated dolo, tr. silica net veining	1	<.015	11	1	<100		
372	OC	Strongly Kaol tuff bleached white or mod. Goe.	42	.3	549	16	<100		
373	OC	Jasperoid ~10% Qtz veins, some have large casts of stibnite, zone ~10' wide, N20E	401	19	131	198	117		
374	OC	generally brecciated dolo, 1-3% net silica veins a few spots of strong Qtz net veining	14	5	9	8	<100		
375	OC	generally unbrecciated gray dolo ~5% net silica veining	21	.2	16	2	<100		
376	OC	Some bx dolo. 1-3% net silica veins	11	.3	8	1	<100		
377	OC.	dolo, some bx, about 5% silicification a few Qtz veins to 1" wide - ~N45W	5	14	11	13	<100		
378	OC	Bx gray dolo 5-7% dolo veins a few spots of network Qtz veins but very scattered	1	1	4	2	<100		
379	OC	Jasperoid ~2' wide with strong net Qtz veining ~5% silica veining around ~N45W	19	2	54	44	558		
380	poor OC.	dolo, 3-5% dolo veins, 2-3% silica net veins - a few spots of coarse net Qtz veining	56	2	30	5	<100		

DmH-88

DmH-88

ANALYSIS SHEET

Project Silverta

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DmH-88 381	OC	Gray dolo - some BX about 2%. silica net veins	38	1	31	30	<100		
382	sub OC	Tuff - mod Kaol., vw-m Goe	16	.07	810	14	<100		
383	OC.	weakly bx dolo - zones up to 1 ft wide of Qtz net veining ~N45W	57	1	44	8	<100		
384	O.C.	near tor of Tuff dike, a few zone of net Qtz veining also mod limonitic + silicifier dolo w/ 5% calcite veins	18	11	92	31	443		
385	O.C.	locally bx dolo, 1-2% silica net veining minor net Qtz veining	12	4	15	10	<100		
386	OC.	bleached dolo bx 3-4% net silica veinlets	15	.5	23	2	<100		
387	O.C.	Qtz net veined zone ~2' wide - NW 1-5% silica net veining in adjacent bx dolo	56	22	56	328	343		
388	O.C.	weakly bx dolo 1-2% silica net veins	31	.2	75	9	<100		
389	sub OC	Tuff, w-m Kaol - maybe some mont white to mod Goe	3	.08	120	7	<100		
390	OC	Tuff - w-m Kaol rather friable w-m Goe	314	.9	1358	41	<100		
391	float + sub OC	mod - strongly Kaol. Tuff white	30	.2	126	8	<100		
392	OC	strong net Qtz veined zone about 3' wide 2-5% silica net veining in adjacent dolo	103	13	61	17	108		
393	OC	Tuff - w-m Kaol w-m Goe	319	.4	411	20	224		
394	OC	Brecciated gray dolo	5	<.015	15	2	<100		
395	OC	dolo bx, locally very rextlized almost marble 1-2% net silica veins outside of marbly zone	3	.02	11	1	<100		
396	OC	dolo bx, a bit bleached in places 1-10% dolo veinlets	2	.02	3	.7	<100		

DmH-88

DMH-88

ANALYSIS SHEET

Project Silver

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 397	OC	Some dolo bx, gray, white a few streaks of bleaching	5	.03	40	2	<100		
398	OC	Bleached bx dolo upto 10% net dolo veins	2	<.015	38	2	<100		
399	OC	Tuff - mod Kaol w Hem + Goe very friable	3	.09	133	9	<100		
400	OC	Tuff - mod Kaol, mod Goe, a few 1mm irregular Qtz veinlets << 1%	5	.09	174	19	<100		
401	OC	Tuff, weakly Kaol. friable w. Goe	10	.03	61	2	<100		
402	OC	Tuff w-m Kaol friable w. Goe	1	<.015	89	14	<100		
403	OC	gray dolo bx	2	.04	91	3	<100		
404	OC	Bx dolo, some a bit bleached minor Qtz sandstone	3	<.015	28	1	<100		
405	OC	Tuff, weakly Kaol., pretty fresh vw Goe on fractures	1	.02	29	1	<100		
406	OC	bleached dolo bx mod Goe throughout	8	.3	2535	31	<100		
407	OC	bx gray dolo - 2-4% net silica veinlets but very erradict	4	.03	82	2	<100		
408	OC	bx gray dolo - w-m Hem, mainly in matrix	4	.03	38	3	<100		
409	OC	Bleached mostly bx dolo, minor dolo veins w Hem in places - 1-2% net silica veins	2	.02	47	2	<100		
410	SUB OC	Tuff, well Kaolinized White to mod Goe	4	.02	83	4	<100		
411	OC	Bx dolo, 2-4% net silica veinlets 1-2% dolo veinlets, mod Hem in spots	10	.2	67	13	258		
412	OC	Bx dolo, pretty rextlized, a bit of sandstone, 1-2% silica net veins w-Hem	26	.05	104	7	102		

DMH-88

Project Silverto

ANALYSIS SHEET

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 413	OC	BX gray dolo 2-3% net silica veinlets	14	.3	28	6	<100		
414	OC	BX dolo, a bit bleached, some gossanous spots a few patches of strong Qtz net veining - average 30%	41	3	261	91	1500		
415	OC	Jasperoid - 2-3% Qtz veinlets, mod Goe BX dolo host rock	550	5	787	32	519		
416	OC	Jasperoid, 1-2% Qtz veinlets, mod Goe although a few spots are gossanous	219	3	141	22	1130		
417	OC	Bx bleached dolo, up to 25% silica veinlets - also net Qtz veinlets in places - spotty mod Goe	1750	3	636	39	1650		
418	OC	Bx dolo - 1-2% silica net veins W. Hem	9	.2	224	16	1310		
419	OC	Bx dolo - highly recrystallized W. Hem 2-10% silica net veinlets	31	18	124	36	125		
420	OC	Bx gray dolo - 2-3% silica net veinlets up to 1/2" wide - selective sample of silica-rich	23	1	18	1	<100		
421	OC	Bx gray dolo, 1-2% silica net veinlets selective sample of silica-rich	21	48	33	33	<100		
422	OC	Bx gray and some bleached dolo, 2-3% silica veinlets - also a 6" wide Qtz net veined zone	1	.3	6	.7	<100		
423	OC	Bx dolo - ~1% silica net veinlets	17	.8	23	2	<100		
424	OC	Bx gray dolo but some bleached with a bit of Hem - 2-7% silica veinlets	1	.08	6	1	<100		
425	OC	Bx gray dolo, 1-3% irregular silica veinlets	87	13	32	3	<100		
426	OC	Bx dolo, some gray w/ 1-10% dolo veinlets some bleached w/ mod Hem & 1-2% dolo veins - tr silica	5	.2	28	3	<100		
427	OC	Bx gray dolo, 2-5% dolo veinlets a bit of Hem in places, tr. silica veinlets	5	.4	32	6	162		
428	Dump	prospect - coarse, locally vuggy Qtz in bleached dolo, vein about 2' wide - green mineral on fractures	5	27	33	53	159		

DMH-88

Project Silverton

ANALYSIS SHEET

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 429	OC	Bx dolo - some bleached with weak Goe + 1-2% silica veinlets - also locally up to 20% dolo veins	2	.2	16	2	118		
430	OC	strong Qtz vein zone about 2' wide strong dolo veining adjacent	339	6	89	30	182		
431	OC	small jasperoid up to 30% Qtz veins mod-strong Goe	5.2	19	346	96	182		
432	OC	Jasperoid up to 10' wide ~E-W up to 15% Qtz net veinlets - mod Goe	125	5	255	41	1920		
433	OC	Jasperoid, mod Goe - Bx includes fragments of Tuff up to 2", up to 10% Qtz veinlets	38	5	81	19	165		
434	OC	Jasperoid, mod Goe, 5-15% net Qtz veinlets	161	25	60	67	126		
435	OC	several ~N-S zone of net Qtz veining each 2-3' wide - weak Goe strong veining	145	69	70	1822	291		
436	OC	~N-S zone of strong Qtz net veining about 3' wide - a few spots of strong Goe	322	230	135	601	593		
437	OC	Jasperoid with about 30% Qtz net veining mod Goe, ~N40E, about 6' wide	36	4	39	18	218		
438	OC	Jasperoid about 12' wide, strong Qtz net veining, mod Goe ~N40E	245	434	135	253	758		
439	OC	Jasperoid, mixture of tuff + dolo strong net Qtz veining mod Goe	323	20	234	246	633		
440	OC	Strong net Qtz veining in Bx dolo irregular zones 1-3' wide	500	180	125	4455	322		
441	OC	Jasperoid maybe 20' thick, tuff below, strong network Qtz veining mod Goe	1550	10	1964	759	780		
442	CUT ~~OC~~	Qtz veining up to 1/4" in weakly argillized dolo - locally gossanous ~N40E	175	3	220	39	2470		
443	Dump	strong net Qtz veining and gossanous (Goe) bx dolo -	203	128	430	168	2660		
444	OC	Qtz veins + net Qtz veins, a few gossanous spots - in bx bleached dolo	32	.1	22	3	<100		

DMH-88

Project Silver

ANALYSIS SHEET

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 445	Dump	Gossan in dolo - 50% + Goe also fine chalcedony - some network texture	296	1	369	51	<100		
446	OC	Contact of Jasperoid + Kaolinized Tuff net veining in Jasperoid - a few Qtz veinlets in Tuff	751	3	251	41	2060		
447	OC	Small area of Jasperoid in bx dolo. 2-8% irregular Qtz veins - mod Goe	106	.59	64	21	400		
448	OC	small area of Jasperoid 1-3% irregular vuggy Qtz veins - mod Goe	80	.91	97	29	569		
449	OC	Jasperoid, 2-5% irregular vuggy Qtz veins mod. Goe tr. Jar	111	53.4	44	104	1010		
450	OC	Jasperoid from bx dolo, ~5% vuggy Qtz veins mod. Goe W. Hem.	39	16.7	47	91	1040		
451	OC	minor jasperoid - mostly silica veined weakly bx dolo - ~5% silica veins - few pods of Qtz to 1 ft	35	1.08	49	34	515		
452	OC	High Graded - bx dolo, very rextlized, 2-5% silica veins, Qtz pods ~2% of rock up to 1 ft across	61	2.20	43	42	534		
453	OC	High Graded - mod bx dolo, a few dolo veins ~5% silica veins - a few scattered pods of Qtz to 2 ft across	85	1.30	36	21	501		
454	OC	Jasperoid, 2-3% Qtz veins vuggy + irregular mod. Goe, W. Hem	27	1.64	121	49	801		
455	OC	Bx dolo - 7-10% silica veins, 1-3% Qtz veins W. Hem	19	.87	58	31	1060		
456	dump ~~OC~~	Kaol tuff dike, ~20% Qtz veins (<1/2") mod Goe W. Hem.	297	1658	252	675	5100		
457	OC	Prospect pit - Contact of tuff dike + Jasperoid Tuff - 10% Qtz veins mod Goe + Hem Jasperoid - 35% Qtz veins - W. Goe + Hem	193	12.1	126	56	546		
458	OC	Jasperoid - 25% irregular Qtz veins < 1/2" ~~to~~ rather sheared rock.	134	13.1	149	42	706		
459	dump	Very gaudy Qtz veins in Bx dolo, about 90% Qtz veins - small pocket in hill	74	17.4	97	139	556		
460	OC	blah looking jasperoid - 1-2% Qtz veins rather scattered W-mod Goe.	15	2.64	123	72	600		

DMH-88

Project Silvert

ANALYSIS SHEET

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 461	OC.	Blak Jasperoid - 2-3' thick scab a few scattered Qtz veinlets w-mod Goe.	44	8.29	30	48	622		
462	OC	bleached dolo - weak Goe - upto 3% very coarse Calcite in irregular veins	27	10.5	174	48	926		
463	OC	bleathed dolo, irregular pods, weak Goe, 1-3% calcite veins	5	.13	43	5	180		
464	OC	bleached dolo, ~2% dolo veins - weak Goe - mainly on joints	1	.11	28	4	287		
465	OC	bleached dolo - ~3% dolo veins, weak Goe mainly on joints	2	.05	30	1	176		
466	OC	bx dolo, ~10% silica veins - locally mod Hem up to 5% dolo veins & breccia filling	94	.66	111	36	617		
467	OC	some Jasperoid with mod Goe & 4% Qtz veins mostly bx dolo with 10% silica veins, a few Qtz veins, mod Hem	30	.39	59	19	695		
468	OC	bx dolo, ~10% silica veins, a few spots of Jasperoid w. mod Goe & w. Hem.	120	4.10	265	63	1330		
469	OC	mixed Jasperoid & bx dolo w/ 1-10% silica veins, Jasperoid has m-s. Goe up to 5% Qtz veins	346	2.47	145	39	1030		
470	OC	mixed Jasperoid & bx dolo with 1-5% silica veins - Jasperoid has a few Qtz veins - mod Goe.	256	.83	833	33	351		
471	OC	mod. Kaol - Thinly bedded Tuff &/or seds some layers silty & finely laminated - some up to 50% Qtz - weak Goe.	4	.07	306	11	243		
472	OC	densely welded tuff - could has been vitric weak Kaol - 0-weak Goe	2	.06	221	14	2190		
473	OC	strongly argillized tuff w/ up to 10% strong Goe zones about 1" thick - Goe cements tuff	2	.02	64	4	1010		
474	OC	mod Kaol - w. silicified Tuff - w. Goe - tr. Jap	29	.14	131	9	395		
475	OC	mod silicified - lithic rich tuff - mod Kaol w. Goe -	1	.04	135	44	1550		
476	Sub OC	~~Through~~ completely opalized Tuff weak Goe.	2	.04	97	.9	132		

DMH-88

Project Silver

ANALYSIS SHEET

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 477	Sub OC	strongly & completely Opalized Tuff weak. Goe.	1	.04	19	.9	171		
478	OC	bx dolo - about 10% silica veining a few spots of ~~bro~~ dark brown jasperoid	1	.04	25	6	399		
479	OC	bx dolo about 15% silica veining a few spots of brown jasperoid	2	.02	125	7	184		
480	OC	bx dolo about 10% silica veining local Goe. Jasperoid with 5% Qtz veins	1	.06	113	5	2650		
481	OC	bx dolo - about 10% silica veining locally Goe. Jasperoid with up to 10% Qtz veins	1	.03	22	6	478		
482	OC	bx dolo - 1-15% silica veins - minor Jasperoid with 1-5% Qtz veins - w. Goe.	1	.03	588	10	1410		
483	Sub OC	weakly mod argillized tuff - w - ~~mw~~ Goe	1	.04	886	.4	468		
484	Sub OC	weak ~~qz~~ argillized tuff - mostly weak Goe but spots of strong Goe.	1	.03	256	.5	512		
485	OC.	lithic tuff - 60% lithics mod Silica - mod Goe	83	.6	138	47	4120		
486	O.C.	lithic tuff - mod. silicification, mod Goe. a few hairline opaline veinlets	33	.9	164	60	3490		
487	OC.	lithic tuff - mod. silicification mod. Goe.	29	.4	48	15	1460		
488	O.C.	lithic tuff - mod silicification - mod. Goe. a few hairline opal veins	679	4	227	74	3950		
489	O.C.	lithic tuff - mod. silicification - mod. Goe.	14	.3	32	15	454		
490	O.C.	lithic tuff - mod - strong silicification mod. Goe.	109	1.7	142	62	2860		
491	~~O.C~~	lithic tuff - strong Goe in places locally abundant Barite - probably talus	630	2	420	41	5720		
492	~~O.C~~	lithic tuff - strong silicification - locally strong barite - mostly in veins to 1/2" wide strong Goe with barite otherwise mod. probably talus	1200	4	3846	412	7370		

DMH-88

Project Silvert

ANALYSIS SHEET

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 493	O.C.	lithic tuff strongly silicified - minor barite on joints mod. Goe.	62	.9	706	156	7530		
494	O.C.	lithic tuff - narrow zone of up to 20% barite in veins + strong Goe - strong Silica	42	.6	596	135	7740		
495	O.C.	lithic tuff - w-mod silicification mostly dacite blocks - v.w. chl w. Clay w. Goe	127	.2	101	17	979		
496	OC.	near contact of Jasperoid bx + tuff - up to 20% Qtz veins w. Goe tuff has mod Silicification	250	7	84	73	5310		
497	O.C.	bx Jasperoid - most fragments leached out fine bx < 1/2" w. Goe.	197	2	138	324	3380		
498	O.C.	bx Jasperoid - < 3% Qtz veinlets mod. Goe	280	2	625	251	3200		
499	O.C.	Tuff - Jasperoid contact - up to 10% Qtz veins to 2" wide near contact - mod silica Tuff for 20-30' below contact	189	4	154	63	1430		
500	O.C.	Tuff - Jasperoid contact - up to 10% Qtz veins to 3" wide - Tuff silicified 20-30% below contact w. Goe	70	34	34	1434	648		
501	OC.	bx Jasperoid - mod - strong Goe - ~3% Stibiconite (?)	66	5	420	81	1720		
502	OC.	preferential sample - < 1% Qtz veins in weakly silicified tuff - veins subparallel w. mod - Goe.	50	5	21	22	559		
503	OC.	Silicified + weakly Qtz veined zone about 5' thick - in Tuff - w-m. Goe	108	2	32	21	295		
504	O.C.	Tuff of Black Rock Summit - completely argillized w. Jar + Hem on fractures	4	.05	99	6	231		
505	O.C.	very base of TBR - about 200' long zone of stratiform zone of intense Goe + MnOx All but Qtz phenos. replaced	3	<.015	2115	3	4660		
506	O.C.	mod silicified lithic tuff bx - w-m Goe a few fractures have barite - some chl.	213	.6	500	52	4220		
507	OC.	mod silicified lithic tuff bx - some chl. mod. Goe.	18	.2	262	71	3350		
508	O.C.	mod silicified lithic tuff bx mod brick red Hem	5	<.015	335	60	3660		

Project Silver

ANALYSIS SHEET

Date

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-88 509	O.C.	weakly silicified lithic tuff bx - weak clay + chl w-mod Hem.	3	<.015	60	15	254		
510	prospect pit O.C.	lithic tuff, strongly silicified weak clay, irregular pods to 2" of chalcedony or alunite mod Goe maybe 3% fine pyrite	60	2	39	6508	250		
511	O.C.	lithic tuff - mod silicification some patches of drusy Qtz - irregular patches to 2" of chalcedony or Alunite w-m Goe	29	.7	159	100	960		
512	prospect pit	lithic tuff bx, m-S silicification - maybe some alunite - mod Goe - tr. pyrite	39	.3	33	173	122		
513	sub O.C.	Tbr, mod argillized (illite?) w. Jar + Hem mainly on fractures	4	<.015	59	7	1830		
514	sub O.C.	Tbr - ~~sub~~ mod argillized weak Goe + Jar	3	<.015	644	7	324		
515	O.C.	w-m argillized Tbr weak Goe on fractures	2	<.015	6	2	<100		
516	sub O.C.	mod argillized Tbr - weak Goe + VW Jar on Fractures	3	<.015	9	3	<100		
517	O.C.	Tbr, mod argillized w-m Goe VW Jar mainly on fractures	3	<.015	4	1	<100		
518	O.C.	Tbr. mod argillized w-m Goe VW Jar mainly on fractures	2	<.015	2	2	<100		
519	O.C.	mod. argillized Tbr w-m Goe VW Jar mainly on fractures	3	<.015	1	.3	<100		
520	road cut O.C.	mod argillized Tbr mod-strong Goe - some Mn ox mainly on fractures	3	<.015	7	2	<100		
521	O.C.	High Graded - Qtz veins to 1½" wide, just a few in hardened Tuff - stibnite up to 20% in veins	336	1.7	58	414	1490		
522	O.C.	High Graded: Qtz + silicified fractures to 2" wide about 1 per 1-2 ft, sub parallel in hardened Tuff	3200	83.1	342	29300	1120		
523	O.C.	High Graded - Qtz veins about ¼" wide, silicified Tuff for 2-4" on either side - stibnite in bands in vein up to 30%	664	78	448	20100	<100		
524	prospect pit O.C.	High Graded - Qtz veins about 4" wide up to 70% stibnite - Qtz vuggy in places	1510	3	884	68000	2950		

DMH-88

Property Silverton

Date

ANALYSIS SHEET

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-87 525	O.C.	Jasperoid - a bit of Qtz veining mod Goe, w Jar	10	.5	220	76	980		
526	O.C.	Jasperoid - mod silicification of ls mod Goe	150	4.0	100	73	840		
527	O.C.	Tuff - strong Kaol. weak silica mod Hem w Goe + Jar	<10	<.1	150	7	270		
528	O.C.	mod silicified ls on contact with tuff strong breccia mod Goe	420	16.5	240	56	860		
529	O.C.	weakly silicified ls - stringers of silicification locally strong Hem	<10	.6	41	36	610		
530	O.C.	Tuff - m-s Kaol. m. Hem + Goe w. Jar	<10	<.1	60	11	350		
531	O.C.	strongly silicified Tuff mod Jar	360	1.9	150	84	770		
532	O.C.	strongly Kaolinized tuff mod to strong Goe m. Jar	<10	<.1	110	34	270		
533	O.C.	Jasperoid - about 1/2 of O.C. strong breccia w. Goe.	<10	<.1	25	6	170		
534	dump	Jasperoid strong Jar	440	11.0	470	180	1000		
535	O.C.	prospect pits Jasperoid mod Goe + Jar	170	7.1	210	14000	1000		
536	O.C.	Jasperoid much brecciation mod Goe w Jar	30	5.3	270	46	1600		
537	O.C.	Jasperoid - some weak stockwork veining mod Goe. Weak Jar	520	2.8	180	67	1600		
538	O.C.	strong stockwork Qtz veining in Jasperoid many open spaces mod Goe.	<10	.8	45	19	320		
539	O.C.	mod silicification of ls w-s Goe w Jar	560	1.8	120	38	1600		
540	O.C.	Jasperoid - weak stockwork Qtz veining mod Goe.	1310	7.8	130	87	760		

DMH-87

Property Silverton

Date

ANALYSIS SHEET

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-87 541	O.C.	Tuff strong Kaol mod Goe	2240	6.1	520	170	8500		
542	O.C.	Tuff Jasperoid contact strong Kaol in Tuff mod Goe	130	1.5	840	170	5000		
543	O.C.	Kaolinized Tuff w-m silicification	10	.2	350	31	4300		
544	O.C.	Kaolinized Tuff w-m silicification a few Qtz veinlets mod Goe.	<10	<.1	140	~~1200~~ 13	4300		
545	O.C.	Kaolinized Tuff w silica w-m Goe	<10	.1	440	28	3000		
546	O.C.	Jasperoid m. Jar + Goe	1040	6.2	270	110	4100		
547	O.C.	sandy ls weak silica weak Goe	<10	<.1	27	8	200		
548	O.C.	Tuff strong Kaol w silica mod Goe	<10	.3	210	18	7400		
549	O.C.	Jasperoid a bit of Qtz stockwork w-s Goe	60	7.4	300	98	4000		
550	O.C.	Jasperoid a bit of Qtz stockwork w-m Goe	<10	3.6	1200	320	4800		
551	O.C.	Jasperoid locally strong Qtz stockwork w Goe	<10	14.0	200	140	640		
552	O.C.	Jasperoid - locally strong Qtz stockwork w-s Goe tr Jar	<10	2.2	73	91	170		
553	O.C.	Jasperoid locally mod stockwork w-m Goe tr. Jar	70	2.7	240	77	600		
554	O.C.	Tuff - mod Kaol weak silica w. Goe	20	.4	120	80	220		
555	O.C.	strongly Kaolinized Tuff local strong silica m. Goe w Hem + Jar	170	1.0	270	76	560		
556	O.C.	strongly Kaolinized Tuff some strong silicification m Goe w Jar + Hem	200	1.8	330	130	1300		

DMH-87

Property Silverton

Date

ANALYSIS SHEET

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-87 557	O.C	Jasperoid above Tuff contact strong Hem	<10	<.1	1900	170	1400		
558	O.C.	Jasperoid m. Hem & Goe	<10	.2	340	76	4900		
559	O.C.	Jasperoid a few Qtz veins brecciated mod Goe.	<10	<.1	130	39	1900		
560	O.C.	Tuff strong Kaol. weak silica w-m Hem w Goe	<10	<.1	110	40	1600		
561	O.C.	Tuff prospect pit strong Kaol. w-m Goe & Hem	<10	<.1	100	22	530000		
562	O.C.	Tuff - lots of lithics strong Kaol. w. Goe	<10	<.1	380	210	8000		
563	O.C.	Tuff strong Kaol w-m Goe & Hem	<10	.1	320	51	22000		
564	O.C.	Tuff- Jasperoid contact rather brecciated Tuff strong Kaol w-m Goe & Hem	10	<.1	320	69	5800		
565	O.C.	back hoe Trench strong Kaol in Tuff w-s Goe & Jar	20	.4	1000	1500	1500		
566	O.C.	Jasperoid just above Tuff contact a few Qtz veinlets w-m Goe	<10	.7	36	10	270		
567	O.C.	Jasperoid local strong open boxy stockwork veins w-m Goe w Jar	110	4.0	54	13	380		
568	O.C.	mod Kaolinized Tuff w Goe	50	.1	800	54	180		
569	O.C.	Tuff mod Kaol. weak silica mod Goe vw Jar	<10	.1	230	16	570		
570	O.C.	Tuff mod Kaol mod silica w-m Goe	<10	<.1	180	<1	1500		
571	O.C	Jasperoid just above tuff contact locally boxy w. Goe	<10	.8	43	120	660		
572	O.C	Strongly kaolinized tuff weak silica strong Goe & Hem	<10	<.1	730	<1	50		

DMH-87

Property Silverton

Date

ANALYSIS SHEET

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
DMH-87 573	O.C.	mod Kaolinized Tuff mod silica. mod Fe	<10	<.1	310	27	390		
574	O.C.	Tuff - mod Kaol mod silica contact w/ ls m-s Gnet + Jar	<10	<.1	260	20	100		

DMH-87

Project SILVERT (684)

ANALYSIS SHEET

Date 5-26-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-600	O.C.	Unsilicified rhyolite w/ kaol. f'spar. <3% qz. vn. Goet → hm. inclusions (6-9% of rock) Gr.mass is white	67	1.05	910	28.6	234		
NW-88-601	O.C.	Unsilicified rhyolite w/ kaol. f'spar. Jar-altered inclusions (8%) Alteration is str. goet → jar. Gr.mass is white	2	.015	155	13.3	749		
NW-88-602	O.C.	3-5% silicified rhyolite w/ kaol. f'spar. 2% gossan. Inclusions are wkly goet-jar. Gr.mass is white to buff.	51	.053	317	30.0	1330		
NW-88-603	O.C.	Unsilicified rhyolite w/ kaol. f'spar (10-15%) and glassy qz. Wkly altered (jarosite). Gr.mass is white to purple.	3	<.015	67.9	2.89	<97		
NW-88-604	O.C.	Massive jsp. 100% silicified. Up to 1mm. veinlets of hm and limonite <1% gossan. No apparent sulfides	151	.446	98.2	30.7	481		
NW-88-605	O.C.	20% silicified rhyolite w/ 10% kaol. f'spar + 10% milky qz. + 5-7% hm. 10% fine-gr. qz vn (up to 5mm), 1-2% stibn. 2% gossan	95	.566	155	27.7	673		
NW-88-606	O.C.	wkly silicified rhyolite w/ 10% massive jsp-ized carb. Rhy. has 15% kaol. f'spar, 10-15% glassy-milky qz., 20-30% jar alt. (some goet.) wt gr.mass / Jsp. has 5% jar-goet. alt, 2-3% stibn., 10% cc. coating.	195	.407	139	30.9	<97		
NW-88-607	O.C.	Unsil. rhyolite w/ kaol. f'spar (10% of rock), 2% kaol. pumice fragments, 10% glassy qz., 7% goet. alt. <1% gossan. Gr.mass grey	3	.015	169	25.1	521		
NW-88-608	O.C.	Unsil. rhyolite w/ up to 100% alt. Unalt. zones are kaol. w/ 10-15% glassy qz. + pumice. Altered zones are ~80% jar, 5% goet. and up to 15% hm. X'stals of hm + jar. pressed (~.5mm)	3	<.014	54.9	6.26	<95		
NW-88-609	O.C.	30-40% sil. rhyolite w/ 8% kaol. f'spar, 4-5% glassy qz. Grey gr.mass. Str. hm alt. w/ 20-25% brown staining. 5-10% gossan	426	.520	262	50.7	386		
NW-88-610	O.C.	Unsil. rhyolite. 15-20% kaol. f'spar. Gr.mass is milky wt. to light purple, 8% glassy qz. Pervasive hm. veinlets (up to 3 mm) and 5% stib. found mostly in vesicles	20	<.015	379	24.2	<100		
NW-88-611	O.C.	Split sample (50-50) btwn. 20% sil. rhyol. + 10% sil. carb. Rhyolite: kaol. f'spar, goet-hm alt. (~10% of rock) Limonite pervasive. milky qz Carbonate: 50% brxd.; 5% goet-hm alt., 'spaghetti' fossils in bxa. blocks.	20	.027	73.8	15.5	557		
NW-88-612	O.C.	Unsil. rhyolite w/ 8-10% kaol. f'spar + 5-7% glassy qz. Wk. goet-hm alt. in gr.mass and inclusions. wt-gy color.	19	<.015	220	35.8	3140		
NW-88-613	O.C.	Unsil. rhyol. w/ 10% kaol f'spar. 60-70% of gr.mass also kaolinized. Alt. varies from goet-hm to just kaol. Gr.mass is wt-yw.	2	<0.014	84.9	6.29	191		
NW-88-614	O.C.	Unsil. rhyol. w/ 10% kaol. f'spar, 8% glassy qz. Color varies from wt. to light purple to yw. Yellow samples are str. goet.	7	<.015	157	21.2	685		
NW-88-615	O.C.	5% silicified rhyol. w/ 10-12% kaol. f'spar, 5-8% glassy qz. silic. pumice(?) and Si-filled vesicles common. 1% gossan. Gr.mass wt-gy. Little other alteration.	5	<.015	83.7	9.70	1380		

NW-88

Project SILVERTON ('84)

ANALYSIS SHEET

Date 5-26-88

Sample No.	Type	Description	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Au OPT	Ag OPT
NW-88-616	O.C.	Unsil. rhyol. w/ kaol. f'spar, 5-7% glassy qz. Gr. mass varies from wt-gy to purp. to yw. Yellow variety has jar-goet. alt w/ 5-7% gossan.	10	<.014	210	5.06	212		
NW-88-617	O.C.	Unsil. kaol. rhyolite w/ 3-5% glassy qz., wt. gr. mass and 20% hm. alt. veinlets. One v. large qz. nodule (4 in. diam.) found.	2	.021	29.0	1.81	788		
NW-88-618	O.C.	Str. kaol. rhyolite w/ chunks of 10% sil. carbonate in it. Rhyol. has str. hm alt. w/ 3-5% gossan. Color varies from gy-wt. to deep yw.	516	1.40	850	215	12,800		
NW-88-619	O.C.	5-7% sil. dolom (30% bxd.). Dk. gy. dolom. bxa. blocks (1-30 cm.) in a cc matrix. Silicification is hm → jar.	36	1.20	58.8	11.8	575		
NW-88-620	O.C.	60% sil. dolom. Unsilified is 30-40% bxd. w cc + SiO_2 matrix. The rest is massive dolom. Silicified part is 80-90% massive brn. jsp. 10-20% is rhy. dyke w/ kaol. f'spar + 3-5% glassy qz. Mod. hm + 3% lim. alt.	43	.290	37.0	21.0	1360		
NW-88-621	O.C.	3% silic. dolom. w/ 1-2% cc vn. I saw one qz. vn ~ 1.5 in wide 30% bxd. dolom. Dolom. is gy. Silic. dolom is brn.	147	.542	41.6	12.2	2490		
NW-88-622	O.C.	40% silic. dolom. Gy. dolom. is 10-15% bxd. in a SiO_2 + cc matrix. Lg. vesicles filled or partially filled w/ chalcedonic qz. Qz vns (1mm-1cm) pervade rock. Hm alt. common. 3-5% gossan. Found silic. brachiopod (?)	133	2.94	116	59.7	613		
NW-88-623	O.C.	25-30% silic. dolom. Gy. dolom. is 40% bxd. w/ cc + SiO_2 matrix. Jspilized dolom. is massive w/ leached vesicles. Hm. common in jsp. Some goet. in jsp.	5	.450	102	50.2	566		
NW-88-624	O.C.	A 50-50 split sample btwn. rhyol. dyke and dolom. Rhyolite: Rainbow-colored, highly kaol. (20%) w/ 2-5% glassy qz. Goet. alt 5% gossan. Dolomite: 30% bxd. w/ brn. SiO_2 matrix. Recrystallized cc. abundant + hm.	4	<.015	147	11.4	264		
NW-88-625	O.C.	A 50-50 split sample of rhyol. dyke and grey dolom. Dyke: highly kaol. f'spars w 1-2% glassy qz. Gr. mass wt. to pink to yellow (Yellow is jar-goet.) Dolom: 70% bxd. w/ cc + SiO_2 matrix. Some is goet - hm alt. No vn.	7	.212	115	21.4	238		
NW-88-626	O.C.	10% silic. dolom. w/ 20-30% ls. component. 1 mm veinlets of qz. common thru O.C. Preserved carb. has 1-3 mm laminations. Lg. scale bxa w/ no apparent matrix. Color: Gy. to brn.	7	.020	18.9	8.43	169		
NW-88-627	O.C.	100% bxd. dolomite w/ cc. + SiO_2 (5-10%) matrix. Color: Grey Breccia size: 2 mm - 10 cm.	15	.103	23.5	12.9	128		
NW-88-628	O.C.	100% bxd. dolom. w/ <2% silicification. Goet. alt. is wk. cc. vns. up to 3 mm wide are mod. frequent. Color: Gy w/ brn. sil.	16	.131	11.2	4.61	245		
NW-88-629	O.C.	100% bxd. dolom. w/ up to 25% cc., especially as matrix. <3% sil. wk. goet. alt. Dolom. is dk. grey. Silic. is reddish brn.	14	.293	21.0	7.14	<99		
NW-88-630	O.C.	Unsil. rhyol. dyke. Str. kaol. f'spar, 2-5% glassy to milky qz. 2-5% hm. Gr. mass varies fr. gy. to or. to pink-purp. 1-2% gossan.	10	<.015	86.3	18.4	130		
NW-88-631	O.C.	95% bxd. dolom. w/ scabby hm. alt. rhyol. dyke accounting for 2-4% of o.c. Dolom. varies from light gy. to pink. Bxa matrix is cc. + SiO_2	14	.027	55.5	26.3	474		

NW-88

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 300-~~400~~ 370 DRILL HOLE: SL-88-8

PROJECT: Silverton County, State: Nye, NV Location: Silver King Zone

Coords: 16200N 11930E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/13/88 Completed 10/15/88 Logged by: DMH Total Depth: 370

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
305				4								2		100	gray	fine-grained gray dolo a few irregular dolo vns spotty hematite	-5	.1	
310				3								4		100	gray	same	15	1.0	
315				7								3		100	gray	same	30	.7	
320				7								3		100	gray	some dolo breccia same	30	.1	
325				7								7		100	gray & pink	same - a bit bleached bx	-5	.1	
330				2								3		100	gray & lt. gray	same bx	-5	.1	
335				1								3		100	gray	same bx	-5	.1	
340				1								1		100	gray	same bx	30	.1	
345				1								3		100	gray		25	.1	
350				1								3		100	gray & lt. gray	a bit bleached	25	.1	
355				5								3		100	gray		15	.1	
360				10								3		100	gray & lt. gray	a bit bleached	25	.1	
365				1								5		100	gray & pink	mainly fine-grained gray dolo	25	.1	
370				1								3		100	gray		10	.1	
75																			
80																			
85																			
90																			
95																			

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 0-100 DRILL HOLE: SL-88-9

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle zone

Coords: 20970 N 12300 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/10/88 Completed 10/17/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag
					100						6			100	Tan + lt. gray	fine-grained to cherty Jasperoid	270	2
05		1			50						3			50	Tan + gray	dark gray dolo - in part silicified	115	.3
10				1							1			100	gray	gray dolomite moderately fine-grained Brecciated	100	.1
15				1							1			100	gray	Same	90	.1
20				3							3			100	gray to lt. gray	Same a bit bleached	140	.1
25				3							1			100	gray to lt. gray	same a bit bleached	40	.1
30				5							1			100	gray	Same very little bleaching	25	.1
35				7							1			100	gray	Same	40	.1
40				7							1			100	gray	Same - a bit of silicification fine-silica - lt. gray	50	.1
45				7							1			100	gray	gray dolomite - bx thin dolo veinlets	15	.1
50				10							1			100	gray	Same	20	.1
55				10							tr			100	lt. gray	very bleached dolo bx	15	.1
60				15							tr	tr		100	lt. gray	Same	30	.1
65				15							tr			100	lt. gray	Same - some unbleached	35	.1
70				15							1	1		100	gray	gray dolo - lots of thin dolo veins	10	.1
75				15							1	1		100	gray	Same	25	.1
80				15							1	1		100	lt. gray	75% bleached	60	.1
85				15							1	1		100	lt. gray	75% bleached	15	.1
90				2							3			100	gray to tan	50% bleached	40	.1
95				2							3			100	gray to tan	10% bleached	20	.1

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 100 - 200 DRILL HOLE: SL-88-9

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 20970 N 12300 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/17/88 Completed 10/17/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %				pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag
105				tr							3			100	gray	gray dolo - spotty limonite bx. 20% bleached	20	.1
110				tr							3			100	gray	same 20% bleached	30	.1
				tr							1			100	gray	same - no bleaching	25	.2
115						50					4	3		100	brown			
120												3		100	gray	gray dolomite - diss hem bx	20	.1
125				1								1		100	gray	same	15	.1
130				5								1		100	gray + lt. gray	same - 25% bleached	20	.1
135											tr	tr		100	gray	same	15	.1
140											tr	2		100	gray + pink	gray dolo - about 25% pink dolo. med grained	20	.1
145															white to gray	white qtz - med grained some bx	10	.1
150															white to lt. gray	same - minor very rexltized dolo.	-5	.1
155											tr				white to pinkish	quartzite - med grained	10	.1
160											2				lt. gray	Sandy dolomite med sand ~ 40%	5	.1
165											1	tr			lt. gray	same	15	.1
170											1	tr			lt. gray to white	bleached dolomite some bx - somewhat porcellanous	20	.1
175											1	tr			lt. gray to white	very rexltized. dolo blockly dolo grains	15	.1
180											1	1			lt. gray to white	same	5	.1
185											tr				lt. gray to white	same - a bit finer grained	5	.1
											tr					same		
190		tr				50					8	1			tanish	argillized tuff	10	.1
195															lt. gray to white	very rexltized med. grained dolo.	-5	.1
												1			lt. gray to white		-5	.1

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 200-300 DRILL HOLE: SL-88-9

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle zone

Coords: 20970 N 12 300 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/17/88 Completed 10/17/88 Logged by: DMH Total Depth: 400

LITHOLOGY

DOLOMITE QUARTZITE

TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
205											2			100	lt. gray	very rextlized med. grained dolo - bleached	-5	.1	
210											1			100	lt. gray	same	-5	.1	
215											1	tr		100	lt. gray	same	-5	.1	
220											1	1		100	lt. gray	same	-5	.1	
225											2	tr		100	lt. gray	same	-5	.1	
230											1			100	lt. gray	same	-5	.1	
235											tr			100	white	fine-grained quartzite	-5	.1	
240											tr			100	white to lt. gray	very rextlized med. grained dolo bleached - like above	-5	.1	
245											tr			100	lt. gray white	fine-grained white quartzite	-5	.1	
250											tr			100	white		5	.1	
255											tr			100	white	very rextlized med. grained dolo bleached	-5	.1	
260											tr			100	med. gray	like above less bleached	-5	.1	
265				5										100	med. gray	rextlized med-grained dolo - thin dolo veins weakly bleached	-5	.1	
270				7										100	med. gray	same	-5	.1	
275											tr			100	white	med. grained qtzite	-5	.1	
280											tr			100	white to lt. gray	sandy dolomite - 40% qtz	-5	.1	
285														100	white	med. grained quartzite	-5	.1	
290				2							1			100	white to lt. gray	med. grained rextlized bleached dolo. - a few course dolo veins	-5	.1	
295		tr									tr			100	lt. gray	slightly sandy bleached dolo	-5	.1	
				1							tr			100	lt. gray	slightly sandy bleached dolo	-5	.1	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 300-400 DRILL HOLE: SL-88-9

PROJECT: Silverton County, State: Nye, NV Location: Northridge-Saddle Zone

Coords: 20970N 12300E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/17/88 Completed 10/17/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	ppb Au	ppm Ag
											tr			100	lt. gray	slightly sandy dolo mod. bleached	-5	.1
305															white	qtzite med-grain		
											tr			100	white / lt. gray	fine-grained weakly bleached dolo	-5	.1
310																		
											tr			100	lt. gray / white	white med grained qtzite	5	.1
315																		
											tr			100	white / lt. gray	fine grained dolo	-5	.1
320																		
											tr	1		100	white to lt. gray	med. grained Qtzite some brecciation	-5	.1
325																		
											tr	tr		100	white to pinkish	same	-5	.1
330																		
											tr	tr		100	white	same	10	.1
335																		
											tr	tr		100	white	same	-5	.1
340																		
											1			100	gray	fine grained - porcelinous dolo no apparent brecciation	-5	.1
345																		
											tr			100	gray	same	-5	.1
350																		
											tr			100	gray	same	-5	.1
355																		
											tr			100	gray	same		
360						20					2			100	pink	soft clayey dolo	-5	.1
											1			100	gray pinkish tan	calcite + dolo cemented ~~tan~~ med. grained sandstone finely laminated	-5	.1
365																		
											1	tr		100	gray to pinkish tan	same	-5	.1
370																		
											1	tr		100	gray to pinkish tan	same	-5	.1
375																		
														100	gray	gray rexitized dolo		
											tr				white	bx white Quartzite	-5	.1
380																		
											tr			100	white	same	-5	.1
385																		
											tr			100	white	same	-5	.1
390																		
											tr				white	same		
					20	50					10	3		100	brown	argillized tuff a bit silicified	10	.1
395																		
		1			10	60					10	3		100	brown	same	-5	.1

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 0-100 DRILL HOLE: SL-88-10

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 21070 N 12620 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/8/88 Completed 10/8/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	ppb Au	ppm Ag	
	Fill																		
05	vvv vvv				10	50					8		tr	100	white + tan	argillized tuff	-5	.1	
10	vvv vvv vvv				25	30					10		tr	100	white + brown	argillized tuff a bit more silicified	10	.1	
15					100						1		3	100	gray	fine-grained Jasperoid a few sand grains - specated with Jarosite	-5	.1	
20		tr			100						tr		2	100	gray	Jasperoid - finely brecciated small leached-out fractures - Jarosite on fractures	200	3.0	
25		tr			100						tr		2	100	gray	same	220	2.9	
30					100 50	20					3		1	100	gray + brown		550	1.2	
35	vvv vvv				40	40					10			100	white + brown	tuff - fairly silicified	235	0.5	
40	vvv vvv				30	50					8	tr		100	white + brown	less silicified than above	130	.1	
45	vvv vvv				10	50					6			100	white + tan	argillized tuff a few silicified spots	30	.1	
50	vvv vvv				10	50					6			100	white + tan	Same	5	.1	
55	vvv vvvv				5	50					2			100	white + tan	Same	-5	.1	
60	vvv vvvv				5	50					1	1		100	white	Same	-5	.1	
65	vvvv vvvv				5	60				2	1			25	white	Same	-5	.1	
70	vvv vvvv				5	60				4				0	gray	Same unoxidized	-5	.1	
75	vvv vvv				5	60				5				0	lt. gray	Same	-5	.1	
80	vvv vvv				5	60				5				0	lt. gray	same	-5	.1	
85	vvv vvv				5	60				8				0	white + gray	same	-5	.1	
90	vvv vvv				5	60				8				0	white + gray	Same	-5	.1	
95	vvv vvv				5	60				5				0	gray	same	-5	.1	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 100-200 DRILL HOLE: SL-88-10

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 21070N 12620E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/18/88 Completed 10/19/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	veinlet dom. %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag
105	tuff				5	60				4	1			10	lt. gray	argillized tuff very little silicification	-5	.1
110	tuff				5	60				3	3			30	lt. gray + brown	same	-5	.1
115	tuff				5	60				tr	6			80	white + brown	same	335	.1
120	tuff				10	50					8	2		100	gray + brown	same	415	.4
125	tuff				30	40					10	3		100	brown	moderately silicified tuff strong limonite	410	1.1
130	tuff / dolo				30	40					5	2		100	brown	argillized tuff	415	.2
135	dolo	1				20					5	2		100	brown gray	argillized dolomite a few hairline qtz veins basically soft	650	.6
140	dolo	1				20					5	1		100	brown + gray	same	690	1.5
145	dolo				20	15					6			100	brown + gray	same but about 20% jasperoid	380	3.2
150	dolo					10					5			100	gray + brown	dolomite - soft + clayey where limonite stained about 1/2 of material	285	3.3
155	dolo					10					5			100	gray + brown	ab. 1 of tuff same bx	235	2.1
160	dolo					10					5			100	gray + brown	same bx	510	3.9
165	dolo					20					3			100	Tan + lt. gray	very soft + friable irregular goe stain soaked through	45	.9
170	dolo					10					5	1		100	gray + Tan	bleached + unbleached bx dolo - clayey in places with goeth.	180	1.7
175	dolo										1	tr		100	gray + lt. gray	bx dolo weak spotty bleaching	35	.5
180	dolo			1							tr				gray	bx dolo	10	.2
185	dolo										2				gray + lt. tan	bx dolo 50% bleached + goe stained	35	.3
190	dolo					5					4				tan + gray	bx dolo - 90% bleached + goe stained	50	.4
195	dolo					5					2				tan + gray	bx dolo 40% bleached + goe stained	65	.4
	tuff				5	60					5	1			white + Tan	same argillized tuff	65	.3

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 200-300 DRILL HOLE: SW-88-10

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 21070N 12620E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/18/88 Completed 10/18/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %				pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
					5	60					8	1		100	white + Tan	argillized tuff	20	.1	
205					20	40					15	4	tr	100	brown + gray	a bit silicified & gossanous at contact	35	.1	
210				1							tr	1		100	gray	variously bleached + weakly hematite stained Bx dolo	10	.1	
215				3							tr	2		100	gray + lt. gray	same	-5	.1	
220				2							tr	2		100	gray + lt. gray	same - 20% bleached	-5	.1	
225				3							tr	2		100	lt. gray + gray	same - 50% bleached	15	.1	
230				1							1	1		100	gray	same - 20% bleached	20	.1	
235				1							tr	tr		100	gray	same - 10% bleached	25	.1	
240				2							tr			100	gray	Dolo bx	15	.1	
245											1			100	gray + white	gray dolo + white, very rexltized dolo bx	10	.1	
250											tr			100	white + gray	white sandstone - calcite + dolo cement	10	.1	
255											2			100	gray + Tan	Dolomite breccia 50% bleached + weakly Goethite stained	-5	.2	
260					5	50					6	2		100	brown				
265															gray	slightly sandy gray dolo	15	.4	
270											2	1		100	gray	same	-5	.2	
275											tr	1		100	white to gray	mostly very rexltized white dolo bx	-5	.1	
280											tr	2		100	gray to pinkish	20% bleached dolo w/ hematite stain rest gray dolo	-5	.1	
285				1								1		100	gray	fine-grained dolo.	-5	.1	
290				1								1		100	gray	same	-5	.1	
295				1								1		100	gray		10	.1	
				1								1		100	gray	same	-5	.1	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 300-400 DRILL HOLE: SL-88-10

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 21070 N 12620 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/13/88 Completed 10/13/88 Logged by: DMH Total Depth: 400

LITHOLOGY

DOLOMITE QUARTZITE

TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	vein dolomite %	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	ppb Au	ppm Ag
				tr							tr	tr		100	lt. gray	porcelinous lt. gray dolo limonite on fractures	-5	.1
305				tr							tr	tr		100	lt. gray	same	-5	.1
310				tr							tr	tr		100	lt. gray	same	-5	.1
315				tr							tr	tr		100	gray	fine-grained dolo.	10	.1
320				tr							tr	tr		100	gray to lt. gray	same - some porcelinous limonite on fractures	-5	.1
325				tr							tr	tr		100	gray to lt. gray	same	-5	.1
330											tr	tr		100	gray + lt. gray	same - 50% porcelinous	-5	.1
335											tr	tr		100	gray + lt. gray	same - 25% porcelinous	-5	.1
340											1	1		100	lt. gray	porcelinous dolo.	-5	.1
345											tr	2		100	gray	fine grained dolo. limonite mainly on fractures	-5	.1
350											tr	2		100	lt. gray	porcelinous dolo limonite on fractures	-5	.1
355				tr							tr	2		100	gray	fine-grained dolo 20% porcelinous	-5	.1
360												2		100	lt. gray	porcelinous dolo limonite mostly fractures	-5	.1
365												1		100	gray	fine grained dolo 30% porcelinous	-5	.1
370												2		100	white + gray	fine-grained dolo 50% white fine-grained	-5	.1
375												2		100	white	white fine-grained dolo limonite on fractures + diss	-5	.1
380												3		100	white + pink	same	-5	.1
385												3		100	white + pink	same	-5	.1
390												2		100	white + gray	same 50% 50% gray fine-grained dolo	-5	.3
395											tr	2		100	white + gray	80% fine-grained white 20% fine-grained gray	-5	.2

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 0 - 100 DRILL HOLE: SL-88-11

PROJECT: Silverton County, State: Nye, NV Location: Northridge-Saddle Zone

Coords: 20890 N 12740 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/19/88 Completed 10/19/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
	vvv vvv				5	60					4			100	white ~~brown~~ orange	argillized tuff	10	.1	
05	vvv vvv				10	50					5		1	100	white + orange	Same - a bit more silicified	-5	.1	
10	vvvv vvv				5	60					3		1	100	white to tan	argillized tuff 1% lithic	-5	.1	
15	vvv vvv				5	60					1		2	100	white	Same 1% lithic	-5	.1	
20	vvv vvv				10	55					tr		1	100	white	argillized tuff - silicified in spots tr. lithic	-5	.1	
25	vvv vvv				10	55					tr		1	100	white	Same tr. lithic	-5	.1	
30	vvv vvv				10	55					tr		1	100	white	Same tr. lithic	-5	.1	
35	vvv vvv				10	55					tr		1	100	white	Same 1% lithic	-5	.1	
40	vvv vvv				10	50					tr		1	100	white	Same tr. lithic	-5	.1	
45	vvv vvv				15	50					tr		1	100	white	Same 1% lithic	-5	.1	
50	vvv vvv				10	55					tr		2	100	white	Same tr. lithic	-5	.1	
55	vvv vvv				10	55					tr		3	100	pale yellow	Same tr. lithic	-5	.1	
60	vvv vvv				10	55					tr		3	100	pale yellow	Same tr. lithic	-5	.1	
65	vvv vvv				15	50					tr		3	100	pale yellow	Same tr lithic	-5	.1	
70	vvv vvv				5	60					1		3	100	pale yellow	Same tr. lithic	-5	.1	
75	vvv vvv				10	55					3		3	100	pale yellow to orange	Same 1% lithic	-5	.1	
80	vvvv vvv				10	55					2		2	100	white to tan	Same tr. lithic	-5	.2	
85	vvv vvv				5	60					3		2	100	white to tan	Same 1% lithic	-5	.1	
90	vvv vvv				5	60					3		2	100	white to tan	Same 1% lithic	-5	.1	
95	vvv vvv				5	60					2		1	100	white to tan	Same 2% lithic	-5	.2	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 100-200 DRILL HOLE: SL-88-11

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle zone

Coords: 20890N 12740E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/19/88 Completed 10/19/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	%	%	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag
					5	60					3		1	100	white to orange	argillized tuff 2% lithic	50	.2
105					5	60					6		1	100	white + orange	same 2% lithic	210	.1
110																same		
					100						1			100	lt. brown	glassy looking jasperoid limonite on fractures	65	.3
115					100						1			100	lt. brown		240	.9
					5	60					3			100	orange	argillized tuff		
120					5	60					3							
					100						2			100	gray - brown	fine-grained jasperoid some glassy	430	2.6
125					5	60					4			100	white to tan	argillized tuff a bit of jasperoid	320	.7
130																		
					100						2		1	100	brownish gray	fine-grained jasperoid	100	.9
135					100						2	tr	1	100	lt. gray to gray	same - some lt. gray slightly sandy jasperoid	115	1.0
140					100						3		1	100	lt. gray to orange	fine-grained jasperoid	355	1.5
145					100						3		1	100	lt. gray to orange	same	335	.3
					5	60					4			100				
150					5	60				6	1			25	orange to gray	argillized tuff	15	.1
155					5	60				8				0	gray	argillized tuff py diss tr. lithic	-5	.1
160					5	60				8				0	gray	same tr. lithic	-5	.1
165					5	60				8				0	gray	same tr. lithic	-5	.1
170					5	60				8				0	gray	same tr. lithic	-5	.1
175					5	60				8				0	gray	same tr. lithic	15	.1
180					5	60				6				0	gray	same tr. lithic	-5	.1
185					5	60				8				0	gray	same tr. lithic a bit silicified in spots	-5	.3
190					5	60				6				0	gray	same - a bit silicified in spots tr. lithic	-5	.1
195					5	60				6				0	gray	same tr. lithic	-5	.1

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 200-300 DRILL HOLE: SL-88-11

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle zone

Coords: 20890N 12740E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/19/88 Completed 10/19/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolom. %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	Au	Ag
					5	60				6				0	gray	argillized tuff tr. lithic	-5	.2
205					15	45				1	15			20	orange + gray	a bit more silicified strong Goethite tr lithic	110	.1
210					10	50					10		1	100	orange + white	same 3% lithic	140	.1
215					10	50					5		1	100	orange + white	same	370	.6
220					100						1			100		glassy Jasperoid		
					95	tr					1		2	100	gray lt. gray	20% glassy Jasperoid bx 75% fine-grained Jasperoid bx 5% clayey dolomite	880	1.4
225					100						2		2	100	gray lt. gray	20% glassy Jasperoid bx 80% fine-grained Jasperoid Goe spotty diss, Jarosite fracture	330	1.1
230					100						1		1	100	gray	same		
						60					5			100	orange + white	argillized tuff	285	.8
235						60					3			100	white + orange	same	310	1.1
					100						1		1	100	lt. gray	fine-grained to glassy jasperoid Bx		
240					100						8		tr	100	orange + lt. gray	fine-grained Jasperoid Bx about 40% strong Goe stain	940	2.6
245					10	20					8		tr	100	lt. gray + orange	10% Jasperoid 90% slightly clayey dolo	525	4.6
250					2	95					1	3		100	lt. gray to pink	almost pure slicky clay a few silicified pieces	180	1.6
255					2	95					2	1		100	lt. orange brown	almost pure clay pieces of Jasperoid & tuff	370	2.4
260					1	95					2	1		100	lt. orange brown	same	610	4.9
265					40	60					2	1		100	lt. orange brown	60% clay 40% Jasperoid	445	8.1
270					20	80					2	1		100	lt. orange brown	20% Jasperoid	155	3.2
275					10	70					2	1		100	gray orange	clay with 5% Jasperoid pieces	75	1.5
					10	60					1	15		100				
280					10	60					1	15		100	red	argillized tuff 3% lithics	60	1.1
285					5	60					5	5		100	red orange	argillized tuff	30	.2
290				2							2	2		100	gray	gray dolo - fine-grained bx	35	.7
295				1							1	3		100	orange pink	same	15	.2
														100	white	white med grained Qtzite		

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 300-400 DRILL HOLE: SL-88-11

PROJECT: Silverton County, State: Nye, NV Location: Northridge-Saddle zone

Coords: 20890 N 12,740 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/19/88 Completed 10/19/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag
	VVV VVV V V				10	60					8	4	1	100	red-brown	argillized tuff	-5	.2
305				tr							1	1		100	gray	fine-grained dolo	-5	.1
310				tr							tr	tr		100	gray	same	-5	.1
315											tr			100	gray	same	-5	.1
320											tr			100	gray	same	-5	.1
325											tr			100	gray	same	-5	.1
330														100	lt. gray	very fine-grained dolo	-5	.1
335				tr										100	lt. gray	same - a few corals	-5	.1
340				tr										100	gray	fine-grained dolo	-5	.1
345				tr							2			100	lt. gray	almost porcelinous dolo	-5	.1
350														100	lt. gray	very fine-grained dolo	-5	.1
355											tr			100	lt. gray	same - limonite on fractures	-5	.1
360											tr			100	lt. gray	same	-5	.1
365											tr	tr		100	lt. gray	same	-5	.1
370				tr							tr	tr		100	lt. gray	same	-5	.1
375				tr							tr	tr		100	lt. gray	same	-5	.1
380											tr	tr		100	gray & lt. gray	same	-5	.1
385											tr	tr		100	lt. gray + gray	same	-5	.1
390											tr	tr		100	gray	same	-5	.1
395											tr	1		100	gray	same	-5	.1

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 0 - 100 DRILL HOLE: SL-88-12

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 20680N 12630E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/20/88 Completed 10/21/88 Logged by: BMH Total Depth: 400

LITHOLOGY

DOLOMITE QUARTZITE

TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	ppb Au	ppm Ag
	Fill																	
05					30	40					4	1	1	100	white to orange	mod. silicified tuff may have some road fill	-5	.1
10					20	50					4		1	100	white + orange	weakly silicified - argillized tuff	-5	.2
15					15	55					3			100	white + Tan	Same	-5	.1
20					30	40					10	3		100	brown to white	mod. silicified, tuff a little jasperoid	-5	.1
25					30	40					6	1		100		Same		
					100						2			100	white to lt. gray	very fined. grained bx jasperoid	30	.3
30					100						2		1	100	gray	Same - limonites mainly on fractures	260	.1
35					15	50									~~argillized tuff~~			
					100						2		1	100	white gray	very fined grained jasperoid almost glassy, limonites on fractures	455	.6
40					95	5					3		1	100	med gray	fine-grained almost glassy jasperoid - 20% silicified tuff - could be brecciated in.	130	.6
45					100						3		1	100	med gray	fine-grained almost glassy jasperoid - 60% - fine grained granular jasperoid 40%	660	2.0
50					100						2			100	med. gray	fine-grained bx jasperoid a few chips 6ve stained	285	.7
55					100						2			100	med. gray	Same	320	2.1
60		1			100						2		tr	100	med gray	Same - a little very silicified tuff	490	2.9
65		1			100						5		tr	100	med. gray to brown	Same - about 40% of chips 6ve. stained	970	2.8
70					100						4			100	med. gray to brown	Same - most chips 6ve. stained	1380	2.8
75					10	60					6	1		100	lt. brown	argillized tuff	1100	2.3
80					10	60					6	1		100	white to lt. brown	Same	720	2.0
85					10	60				3	4			50	lt. brown + gray	Same	100	2.0
90					5	60				8	1			5	gray	argillized tuff - diss py. - but locally in clusters	35	.3
95					5	60				8	tr			1	gray	Same	-5	.1

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 100 - 200 DRILL HOLE: SL-88-12

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 20680 N 12630 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/20/88 Completed 10/21/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
105					5	60				3	tr			1	gray	argillized tuff diss pyrite tr. lithics	5	.2	
110					5	60				3	tr			1	gray	Same tr. lithics	-5	.1	
115					5	60				3				0	gray	Same tr. lithics	-5	.1	
120					5	60				3				0	gray	Same 1% lithics	-5	.1	
125					5	60				2				0	lt. gray	Same - a few silicified chips tr. lithic	-5	.1	
130					5	60				2				0	lt. gray	argillized tuff tr lithics	15	.1	
135					5	60				4				0	lt. gray	Same - a few pyrite chips tr. lithics	-5	.1	
140					10	60				3	2			25	lt. gray to orange	argillized tuff a few silicified chips tr. lithics	10	.2	
145					5	60					8	1		100	orange brown	Same	610	1.2	
150						100				6				100	~~brown~~ gray to orange	jasperoid 25% fine-grained Jasperoid 75% soft grayish slightly clayey silicified Dolo	640	3.4	
155						100				3				100		Same			
					5	60				8	1			100	orange	argillized tuff	210	.5	
160					5	60				8	1			100					
					5	80				3	1			100	gray	soft clayey material a bit of silicification	720	6.2	
165					1	99				2				100	gray	Same - no dolo left	530	.1	
						70				3				100					
170						70				3				100					
						100				2				100	gray	soft clayey argillized dolo - no dolo left	435	5.2	
175					10	90				3				100	lt. gray to tan	90% gray to weakly limonitic clay 10% fine-grained Jasperoid	830	5.9	
180					40	60				8	1			100	brown + lt. gray	60% limonite clay 40% gray to limonitic fine-grained Jasperoid	1250	14.0	
185					30	70				2				100	lt. gray	variably clayey + soft porous silicified - no dolo left	240	13.6	
190					30	70				1	tr			90	lt. gray + black	Same carbonaceous soft material	70	1.3	
195						100				1	tr			90	black	soft punky carbonaceous material no dolo left 10% carbon?	165	2.1	
											5	3		100	red-tan	argillized	100	.7	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 200-300 DRILL HOLE: SL-88-12

PROJECT: Silverton County, State: Nye, NV Location: Northridge-Saddle Zone

Coords: 20680N 12630E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/20/88 Completed 10/21/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	%	vein	veinlet %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag
						10	60					4	3		100	red-brown	argillized-tuff-silicified in a few spots	280	1.3
205						10	60					4	3		100	red-brown	same	125	1.3
210		tr				5						1	1		100	gray	5% Jasperoid fine grained gray dolo. diss hem in spots	15	.3
215												tr	2		100	gray	same	15	.1
220					tr							tr	1		100	gray	same 10% bleached	-5	.1
225					tr							2	tr		100	gray + white	same 50% bleached Goe mainly in bleached	-5	.1
230												tr			100	H. gray	fine-grained dolo	25	.3
							70					5	1		100		argillized tuff		
235													2		100	gray	fine grained - dolo hem on fractures	5	.1
240					2							tr	3		100	white + gray	same - 50% bleached	-5	.1
10/20 / 10/21 245													3		100	lt. gray to gray	lt. gray is hematite stained fine-grained dolo	-5	.1
250													3		100	lt. gray	fine-grained dolo hematite stained	-5	.1
255					tr								1		100	gray to lt. gray	30% lt. gray - hem stained	-5	.1
260					tr								1		100	gray	10% lt. gray - hem stained	-5	.1
265													1		100	lt. gray to gray	fine-grained dolo 75% lt. gray	-5	.1
270					tr								1		100	gray to lt. gray	fine-grained dolo 10% lt. gray	-5	.1
275															100	gray	fine-grained dolo	-5	.1
280												tr			100	lt. gray	fine-grained dolo limonite on fractures	-5	.1
285												tr	1		100	lt. gray	same	-5	.1
290												tr	tr		100	lt. gray	same	-5	.1
295												tr	tr		100	gray to lt. gray	same 20% lt. gray	-5	.1

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 300 - 400 DRILL HOLE: SL-88-12

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 20680N 12630E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/20/88 Completed 10/21/88 Logged by: DMH Total Depth: 400

LITHOLOGY

DOLOMITE QUARTZITE

TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	%	vein %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
305											tr	tr		100	lt. gray	fine-grained dolo limonite on fractures	-5	.1	
310											tr	tr		100	gray	same	-5	.1	
315											tr	tr		100	gray + lt. gray	same - 50% lt. gray	-5	.1	
320											tr	tr		100	lt. gray	same - 10% gray	-5	.1	
325											tr	tr		100	lt. gray + gray	same 30% gray	-5	.1	
330											tr	tr		100	gray	same 10% lt. gray	-5	.2	
335												1		100	lt. gray	same fine-grained dolo limonite on fractures	-5	.4	
340												1		100	lt. gray	same	-5	.2	
345											tr	tr		100	lt. gray + gray	same - 30% gray	-5	.1	
350											tr	1		100	gray + lt. gray	same - 60% gray	-5	.1	
355											tr	1		100	lt. gray	fine-grained dolo limonite on fractures	-5	.1	
360											tr	1		100	lt. gray		-5	.1	
365												2		100	lt. pinkish gray	fine-grained dolo hematite weakly disr some on fractures	-5	.1	
370												2		100	lt. pinkish gray	same	-5	.1	
375												2		100	lt. pinkish gray	same	-5	.2	
380												1		100	lt. gray + gray	same - 30% gray	-5	.2	
385											tr	2		100	lt. gray	fine-grained dolo some bx - a little bit marbly	-5	.3	
390											2	1		100	lt. gray to white	very recrystallized dolo med. grained - limonite spotty stain + fractures	-5	.4	
395											1	1		100	lt. gray to white	same - brecciated	-5	.3	
											tr	tr		100	white	med. grained quartzite limonite on fractures	-5	.8	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 0-100 DRILL HOLE: SL-88-L3

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 20480N 12,790E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/21/88 Completed 10/22/88 Logged by: DMH Total Depth: 400

LITHOLOGY

DOLOMITE QUARTZITE

TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	ppb Au	ppm Ag
05					10	60					5	1		100	white to tan	in part fill argillized tuff	-5	.1
10					5	60					5	1	tr	100	white to tan	argillized tuff 1% lithics	-5	.1
15					5	60					5	2	tr	100	white to tan	same 1% lithics	-5	.1
20						65					2		tr	100	white	same 1% lithic	-5	.1
25					5	60					3		1	100	white	argillized tuff silicified in spots 1% lithic	-5	.2
30					10	55					6	1	1	100	white + orange	argillized tuff a bit more silicified 3% lithic	60	.4
35					10	55					6	tr	tr	100	white + orange	same 10% Jasperoid	520	5.4
40					100						3		2	100	gray + lt. gray	fine-grained Jasperoid a little mod. silicified tuff limonite 1/2 diss 1/2 fracture	2800	25
45					100						2		2	100	lt. gray	same - bx	4100	52
50					100						2		1	100	gray to white	fine-grained Jasperoid bx 10% sandy 20% cherty 10% tuff	1190	14.2
55					100						2		1	100	gray + lt. gray	fine-grained Jasperoid bx 10% cherty	510	5.9
60					100						3	tr	1	100	lt. gray + gray	same 5% sandy 10% cherty	220	2.7
65					90	10					2	tr	2	100	lt. gray	fine-grained Jasperoid bx a bit clayey in places ~10% silicified tuff	365	2.6
70					90	10					2	tr	1	100	lt. gray	fine-grained Jasperoid bx a bit clayey in places 5% silicified tuff	350	1.8
75					90	10					2		3	100	lt. gray	about the same limonite on fractures 1/2 diss	290	1.4
80					90	10					2		3	100	lt. gray	same		
					15	50					5		1	100	white + orange	weakly silicified argillized Tuff	150	.7
85					10	55					5		1	100	white + orange	same 10% Jasperoid chips	80	.6
Lost Interval																		
90					5	60					4	2	tr	100	white + Tan	argillized tuff 1% lithic	10	.2
95					5	60				3	1	1		20		same 1% lithic	-5	.1

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 100 - 200 DRILL HOLE: SL-88-13

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 20480N 12790E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/21/88 Completed 10/22/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	ppb Au	ppm Ag
105					10	50				3				0	gray	argillized tuff diss py	-5	.2
110					10	50				3				0	gray	same tr. lithic	-5	.2
115					10	60				3				0	lt. gray	same tr. lithic	-5	-.2
120					10	60				3				0	lt. gray	same tr. lithic	-5	-.2
125					5	65				4				0	lt. gray	same tr. lithic	-5	-.2
130					5	65				4				0	lt. gray	same tr. lithic	-5	-.2
135					5	65				4				0	lt. gray	same tr. lithic	-5	-.2
140					5	65				tr	6	1	tr	90	white + tan	same tr. lithic	-5	-.2
145					5	65					7	1		100	white + orange	same tr. lithic	-5	-.2
150					10	60					8	tr	tr	100	white + orange	weakly silicified argillized tuff	55	-.2
155					10	60					tr		3	100	pale yellow	same	95	.6
160					10	60					10	2	1	100	brown-orange + white	same	125	.4
165					10	60					10	3	tr	100	brown-orange + white	same	135	.9
170					10	60					6	2	tr	100	white + brown	same tr. jasperoid	500	2.5
175					20	80					5		1	100	lt. gray + orange	mostly argillized dolo 20% jasperoid - no dolo left	290	3.0
180					40	60					3		3	100	pale yellow + brown	argillized dolo - some somewhat silicified - 20% jasperoid	260	3.1
185					5	60					3	tr	1	100		argillized tuff	605	1.8
190					70	30					1		1	100	gray	mostly glassy jasperoid		
195					5	95					tr		1	100	lt. yellow-gray	almost pure clay a few jasperoid chips	980	3.5
					5	95					1		1	100	gray	same	210	1.9
					30	70					3	tr	?	100	gray + brown	still clayey - more jasperoid most jasperoid strong goe stain + glassy	255	2.8

10/21
10/22

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 200 - 300 DRILL HOLE: SL-88-13

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 20480 N 12790 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/21/88 Completed 10/22/88 Logged by: D MH Total Depth: 400

LITHOLOGY

DOLOMITE QUARTZITE

TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
205					30	70					3			100	Tan	completely argillized except for ~30% gasperoid	65	.2	
					50	50					2	3		100	gray-brown	1/2 argillized 1/2 gasperoid	30	-.2	
210					5	60					4	1		100					
215					5	60					1	tr	tr	100	pale Tan	argillized tuff	30	-.2	
220					5	60					3	1	tr	100	white & Tan	Same	25	-.2	
225											4			100	lt. orange	bleached dolo with fairly uniform geothite stain	80	.5	
230											3			100	lt. orange + lt. gray	Same Some bx	70	.6	
235											3	tr		100	lt. gray tan	1/2 Goe stained dolo bleached fine-grained dolo	35	-.2	
240					5	60					4	tr		100	white & orange	argillized tuff	40	.6	
					5	60					4	tr		100	white & orange	Same			
											3			100	orange	fine-grained sandstone	80	.5	
245					5	60					2	15		100	red	argillized tuff very hematitic	55	.2	
250					5	60					tr	15		100	red	same	110	.4	
255						50						5		100		clayey dolomite			
260						60						30		100	red gray	clayey dolomite 50% hematite gossan 50%	65	.2	
265						5						10		100	red gray	weakly ~~hematitic~~ clayey hematitic dolo a bit of gossan	20	-.2	
270						?						3		100	pink + lt gray	weakly hematitic dolo a bit soft	5	-.2	
275											tr	2		100	gray	fine-grained dolo	20	-.2	
280				tr							tr	tr		100	gray	Same	5	-.2	
285											1	tr		100	lt. gray + gray	Same 30% gray limonite on fractures	5	-.2	
290											1	tr		100	lt. gray	Same	10	-.2	
295											tr	tr		100	gray	Same	25	-.2	
				tr							tr	tr			gray + lt. gray	Same 60% gray	40	-.2	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 300-400 DRILL HOLE: SL-88-13

PROJECT: Silverton County, State: Nye, NV Location: Northridge - Saddle Zone

Coords: 20490N 12790E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/21/88 Completed 10/22/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag
305											tr	tr		100	lt. gray to gray	fine-grained dolo some bx 40% gray	-5	-.2
310											tr	tr		100	gray	fine-grained dolo	-5	-.2
315											tr	tr		100	gray	fine-grained dolo some bx	5	-.2
320											tr	tr		100	gray	same	5	-.2
325											tr	tr		100	lt. gray	same limonite on fractures	-5	-.2
330				tr							tr	1		100	lt. gray	same	5	-.2
335											tr	1		100	lt. gray	fine-grained dolo limonite on fractures	10	-.2
340											1	2		100	gray + brown	fine-grained dolo 30% of chips limonite stained	-5	-.2
345											tr	2		100	gray + Tan	same 20% stained	-5	-.2
350											tr	1		100	gray + lt. gray	fine-grained dolo limonite on fractures 60% gray	-5	-.2
355											tr	tr		100	lt. gray + gray	same 40% gray	5	-.2
360				tr										100	gray	same	-5	-.2
365											tr	1		100	lt. gray + gray	same 20% gray	10	-.2
370				tr							tr	1		100	gray + lt. gray	same - 80% gray	10	-.2
375				tr							tr			100	gray	same	-5	-.2
380											tr	tr		100	lt. gray	fine-grained dolo limonite on fractures	-5	-.2
385											tr	tr		100	lt. gray	same	-5	-.2
390											tr	tr		100	gray + lt. gray	same 60% gray	-5	-.2
395											tr	tr		100	gray + lt. gray	same 70% gray	5	-.2
											tr	3		100	lt. gray to pink	mostly hematite stained fine-grained lt. gray dolo	-5	-.2

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 0-100 DRILL HOLE: SL-88-14

PROJECT: Silverton County, State: Nye, NV Location:

Coords: 19720N 13580E Collar Elev: Angle: 90 Bearing:

Date Collared 10/22/88 Completed 10/24/88 Logged by: DMH Total Depth: 310

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF; ALLUVIUM

F=fracture
D=disseminated

	LITH	vein quartz %	%	vein %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	Au	Ag	
																Alluvium - 25% dolo 75% Tuff			
05																Alluvium 25% dolo 75% Tuff			
10																Alluvium 35% dolo 65% Tuff			
15																Alluvium 35% dolo 65% Tuff			
10/22 / 10/23 wet 20																Alluvium 35% dolo 65% tuff			
25																Alluvium 40% dolo 60% tuff			
30																Alluvium 35% dolo 65% tuff			
35																Alluvium 35% dolo 65% tuff			
40																Alluvium 20% dolo abit of Jasperoid 80% tuff			
45					10	60					4	1		100	white + orange	Argillized tuff (some alluvium)	10	-.2	
50						10					7	1		100	tan - orange	argillized tuff (very small sample)	-5	-.2	
55						10					3	1		100	orange + gray	argillized tuff - rather weak clay - biotites still black but dull	-5	-.2	
60						10					3	1		100	orange + gray	weakly argillized tuff biotites black but dull feldspars cloudy to clear	-5	-.2	
65						10					4	1		100	orange + gray	Same - mud gray chips - limonite stained	-5	-.2	
70						10					4	1		100	orange + gray	Same	-5	-.2	
75						10					4	1		100	orange + gray	Same	-5	-.2	
80						10					4	1		100	orange + gray	Same	-5	-.2	
85						5					4	1		100	orange + gray	Same	-5	-.2	
90						5					4	1		100	orange + gray	Same tr lithics	-5	-.2	
95						5					3	1		100	orange + gray	Same tr. lithics	-5	-.2	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 100 - 200 DRILL HOLE: SL-8844

PROJECT: Silverton County, State: Nye, NV Location:

Coords: 19720N 13580E Collar Elev: Angle: 90 Bearing:

Date Collared 10/22/88 Completed 10/24/88 Logged by: DMH Total Depth: 310

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	Au	Ag
105						5					3	1		100	orange + gray	weakly argillized tuff - biotites black but dull - chips limonite stained mud gray	-5	-.2
110						25								100	orange + gray	a bit more argillized	-5	-.2
115		tr			5	60					4	3		100	orange + white	argillized tuff - feldspars completely altered - lt. orange mud. tr. lithic	-5	-.2
120					5	60					3	1		100	orange + white	same tr. lithic	-5	-.2
125					5	60					3	1		100	orange + white	same	-5	-.2
130					5	60					3	1		100	tan + white	same tr. lithic	-5	-.2
135					5	60					4	3		100	orangy brown + white	same tr. lithic	-5	-.2
140					5	60					4	1		100	Orangy-brown + white	same tr. lithic	5	-.2
145					5	60					3	tr		100	white + orangy brown	same 1% lithic	5	-.2
150		tr			10	55					3	3		100	white + orangy brown	same - a bit more silicified tr. lithic	-5	-.2
155		tr			5	65					3	tr		100	white + brown	completely argillized tr. lithic	-5	-.2
160						65					3	tr		100	white + tan	same - only chips are Qtz phenos tr lithic	-5	-.2
165						65					3	tr		100	tr orange	same tr. lithic	-5	-.2
170					10	50					1	1		100	lt. orange + gray	a bit more silicified in places - mainly argillized TUFF	-5	-.2
175					10	50					1	1	tr	100	white + tan	same tr lithic	5	-.2
180					10	50					1	tr	1	100	Cream	same tr. lithic	-5	-.2
185					10	50					1	tr	1	100	Cream	same tr lithic	-5	-.2
190					10	50					4	1	1	100	lt. brown + white	same tr. lithic	-5	-.2
195					10	50					3	1	1	100	white + lt. brown	same tr. lithic	-5	-.2
					5	60					1	tr	tr	100	Cream	same tr. lithic	-5	-.2

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 200-300 DRILL HOLE: SL-88-14

PROJECT: Silverton County, State: Nye, NV Location:

Coords: 19720 N 13580 E Collar Elev: Angle: 90 Bearing:

Date Collared 10/22/88 Completed 10/24/88 Logged by: DMH Total Depth: 310

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	Au	Ag
205					5	60					1	tr	tr	100	cream	argillized tuff tr. lithic	-5	-.2
210					5	60					1	tr	tr	100	cream	same tr. lithic	-5	-.2
215					5	60					1	tr	tr	100	cream	same tr. lithic	-5	-.2
220					5	60					1	tr	tr	100	cream	same tr. lithic	-5	-.2
225					5	60					1	tr	tr	100	cream	same tr. lithic	-5	-.2
230					5	60					1	tr	tr	100	cream	same tr. lithic	-5	-.2
235					5	60					1	1	tr	100	cream tan	same tr. lithic	5	-.2
240					10	60					1	tr	tr	100	cream	same - a bit more silicified tr. lithic	5	-.2
245					10	60					1	tr	tr	100	cream	same tr. lithic	5	-.2
250					5	60					3	1	tr	100	lt. orange	argillized tuff tr lithic	-5	-.2
255					5	60					3	1	tr	100	lt. orange	same tr. lithic	-5	-.2
260					5	60					3	1	tr	100	lt. orange	same tr. lithic	-5	-.2
265					5	60					3	1	tr	100	lt. orange	same tr. lithic	-5	-.2
270					5	60					3	1	tr	100	lt. orange	same tr. lithic	-5	-.2
275					5	60					4		tr	100	lt. orange	same tr. lithic	-5	-.2
280					5	60					4			100	lt. orange	same	-5	-.2
285					5	60					4	tr		100	lt. orange	same	-5	-.2
290					5	60					4	3	1	100	lt. pinkish orange	same tr. lithic	-5	-.2
295					5	60					4	3	1	100	lt. pinkish orange	same	-5	-.2
					5	60					4	3	1	100	lt. pinkish orange	same	-5	-.2

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 300 - 310 DRILL HOLE: SL-88-14

PROJECT: Silverton County, State: Nye NV Location:

Coords: 19720N 13580E Collar Elev: Angle: 90 Bearing:

Date Collared 10/22/88 Completed 10/24/88 Logged by: DMH Total Depth: 310

LITHOLOGY

DOLOMITE QUARTZITE

TUFF

F = fracture
D = disseminated

		LITH	vein quartz %	% vein	% vein	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	Au	Ag	
10/23	305					5	60					3	2	1	100	lt. pinkish orange	argillized tuff	5	-.2	
10/24	310					10	60					4	2	1	100	lt. pinkish orange	argillized tuff	-5	-.2	
	315		hole			caved														
	320																			
	325																			
	330																			
	335																			
	340																			
	345																			
	350																			
	355																			
	360																			
	365																			
	370																			
	375																			
	380																			
	385																			
	390																			
	395																			

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-2

PROJECT: SILVERTON County, State: NYE, NV Location: Prince Albert Zone

Coords: N 15250 E 6960 Collar Elev.: 6720 Angle: -90° Bearing:

Date: Collared 8/10/88 Completed 8/11/88 Logged by: N.M.W. Total Depth: 400'

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
105		100	Grey	5%	—	—	—	100% reduced silic'd tuff. wk. arg'n. 1% qz. vn. fine + crs. py. in matrix	350	1.0	
110		100	Grey	5½%	—	—	—	SAME -	490	1.3	
115		100	Grey	8%	—	—	—	SAME -	450	1.1	
120		100	Grey	7-8%	—	—	—	SAME -	15	-.2	
125		100	Grey	5%	—	—	—	SAME - 2% qz. vn.	10	-.2	
130		100	Grey	6%	—	—	—	SAME -	-5	-.2	
135		100	Grey	4-5%	—	—	—	SAME -	-5	-.2	
140		100	Grey	5%	—	—	—	SAME - v. wk. arg'n.	5	.2	
145		100	Grey	5-6%	—	—	—	SAME -	-5	-.2	
150		100	Grey	5%	—	—	—	SAME -	-5	-.2	
155		100	Grey	5%	—	—	—	SAME -	-5	-.2	
160		100	Grey	4%	—	—	—	SAME - 3-4% qz + silica vn.	-5	-.2	
165		100	Grey	2½%	—	—	—	SAME -	-5	-.2	
170		100	Grey	3½%	—	—	—	SAME - strgr. arg'n.	-5	-.2	
175		100	Grey	2½-3%	—	—	—	SAME - 2% qz vn. slightly lrgr. xtls of qz.	-5	-.2	
180		100	Grey	3%	—	—	—	SAME - py. still dissem and in clots. 3-4% qz. vn.	-5	-.2	
185		100	Lt. grey white	1½-2%	—	—	—	SAME - 8% qz. vn. str. arg'n. py. only as clots	-5	-.2	
190		100	Grey + white	3%	—	—	—	SAME - py. both as clots and dissem. 5% qz. vn.	5	-.2	
195		100	Grey	3%	—	—	—	SAME - much crs. py. 2% qz. vn.	-5	-.2	
200		100	Lt. grey + orange	1½%	8%	1-1½	tr.	oxidized tuff (55%) w/matrix alt'd. Rest is like the last 100'.	10	.2	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-2

PROJECT: SILVERTON County, State: NYE, NV Location: Prince Albert Zone

Coords: N 15250 E 6960 Collar Elev.: 6720 Angle: -90° Bearing:

Date: Collared 8/10/88 Completed 8/11/88 Logged by: N.M.W. Total Depth: 400'

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
205		10	Grey	—	½%	½%	—	wkly recrystallized grey dolo. w/ wk Fe ox. stn. on partings. wk. silic'n.	5	-.2	
210		25	Grey + brn.	—	2%	tr.	—	slight clay development Fe ox. stn, mod wk. silic'n.	20	-.2	
215		10	Grey	—	½%	tr.	—	wk. silica vn. 5% bxd. No silic'n of dolo.	10	-.2	
220		35	Grey + red	—	½-1%	4%	—	30% bxd dolo. w/ hm + silica matrix.	10	-.2	
225		60	Grey + pink	—	tr.	8%	—	100% bxd, 25% silic'd grey dolo. Mod. hm alt'd matrix.	15	-.2	
230		100	Grey + pink	—	tr.	7%	—	100% bxd jsp. hm + silica matrix	5	-.2	
235		100	pink + grey	—	½%	6-7%	—	35% hm-alt'd porphyry (tuff) 65% bxd jsp.	-5	-.2	
240		100	Pink + lt. grey	—	tr.	5%	—	100% bxd. jsp. w/ hm + silica matrix.	-5	-.2	
245		20	dk. grey + pink	—	tr.	1½%	—	80% dk. grey massive dolo. 20% bxd. jsp. as above	10	-.2	
250		40	dk. grey + milky wt.	½-1%	—	—	—	60-70% partially silic'd dolo. 30-40% reduced py-tuff	35	-.2	
255		80	milky wt.	1½%	—	—	—	100% reduced porphyry (tuff) w/ clots of py. str. arg'n. Mod. silic'n.	-5	-.2	
260		90	milky wt. grey	4%	—	—	—	SAME - more py.	10	-.2	
265		100	milky wt. w/grey	6-7%	—	—	—	SAME - chloritic, more py. wk. arg'n.	5	-.2	
270		100	milky wt.	5%	—	—	—	SAME - wkr. silic'n.	10	-.2	
275		100	milky wt.	4-5%	—	—	—	SAME - slight increase in chlorite	-5	-.2	
280		100	milky wt.	2%	—	—	—	SAME - less py. slight decrease silic'n.	5	-.2	
285		100	milky wt.	4%	—	—	—	SAME - more py.	5	-.2	
290		100	milky wt. + grey	4-5%	—	—	—	SAME - wk. arg'n.	10	-.2	
295		x100	milky wt. + grey	3-4%	—	—	—	SAME - decrease in chl. 1-2% qz vn (?)	5	-.2	
300		x100	Grey	7%	—	—	—	SAME - 1% qz. vn. (?)	-5	-.2	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-2

PROJECT: SILVERTON County, State: NYE, NV Location: Prince Albert Zone

Coords: N 15250 E 6960 Collar Elev.: 6720 Angle: -90° Bearing:

Date: Collared 8/10/88 Completed 8/11/88 Logged by: N.M.W. Total Depth: 400'

LITHOLOGY

DOLOMITE
LIMESTONE
TUFF
QUARTZITE

ALTERATION

ARGILLIC
QUARTZ VEINING
SILICIFICATION
SILICA VEINING

	LITH	ALT	COLOR	% sulfide (0 5 20)	goeth (W M S)	hem (W M S)	jar (W M S)	COMMENTS	Au	Ag	Check
305		~ 100	Grey w/ orange chips	4%	1-2%	—	tr(?)	85% Reduced porphyry (tuff?) 15% Oxid. porphyry (tuff?)	10	-.2	
310		~ 100	Orange w/ grey chips	≤1%	4-5%	1%	tr.	75:25 :: oxid. to red. ratio Tuff is silic'd (mod.) — Reduced has the py.	-5	-.2	
315		~ 100	Orange - brn.	—	7%	1-1½%	—	100% oxid. porphyry (tuff?) v. small chips	-5	-.2	
320		~ x 100	Orange w/ pink + wht. chips	—	5%	2%	—	SAME — 2% qz. vns (?)	15	-.2	
325		~ 25	pink	—	½-1%	1-2%	—	fine-gr. orthoqzite w/ hm + silica cement. Minor MnO_2 (?) dendrites.	-5	-.2	
330		~ 85	orange + pink	—	2%	3-4%	tr.	75% mod. hm-alt'd porphyry (tuff?) w/ wt. f'spar and glassy qz. Rest: orthoqzite	-5	-.2	
335		95	orange + pink + grey	—	2%	2%	tr.	Mostly oxid. (95%) porphyry w/ 5% bleached ls. w/ fine qz (?) veinlets	-5	-.2	
340		15	Lt. grey w/ red + brn. chips	—	1%	2½%	½%	70% bleached ls. as above 30% mix of oxid. tuff + o-qzite	-5	-.2	
345		~ 25	Brnish grey	—	tr.	½-1%	—	Mostly grey, partially silic'd dolo. w/ mix of tuff and ls.	-5	-.2	
350		~ 15	Dk. grey + brktsh pink	—	—	2%	—	Dk. grey wkly. silicified dolo. 15% bxd. w/ hm. matrix. 1-2% dolo. vn.	90	.6	
355		s 15	Dk. grey + pink	—	½-1%	2%	tr (?)	Dk. grey unsilic'd dolo. Cont'd bxa (mod. rextilized) wk. silica vn. (≤1%)	65	.7	
360		s 10	Grey + pink	—	—	1%	tr.	SAME — wk. bxn. wkr. Fe ox. stn. Cont'd dolo. vn.	95	1.1	
365		~ 5	Dk. grey + red	—	—	½%	—	Unbxd. wkly silic'd dolo. w/ hm stn. on fracs, slightly lgr. chips	95	1.1	
370		~ <5	Dk. grey	—	—	<½%	—	SAME — v. wk. hm. stn. No silica vn. Cont'd dolo. vn.	60	.5	
375		~ 10	Dk. grey + red	—	—	1%	tr.	SAME — more hm. stn. bxa(?) smaller chips; cont'd dolo vn.	375	3.2	
380		25	Grey + brn-red	—	1½%	1%	—	Bxd. rextilized dolo. w/ 3-4% dolo. vn. + hm. matrix.	245	1.7	
385		~ 30	Grey + brn-red	—	1-1½%	½%	—	Wkly. silic'd grey dolo. (wk. bxa.) w/ 2% dolo vn.	140	1.6	
390		~ 35	Grey + pink	—	½%	1½-2%	—	Wkly. silic'd grey dolo. more bxa. 2-3% dolo. vn.	135	1.9	
395		~ s 55	Grey + pink	—	1%	1%	—	SAME — 1-1½% silica vn.	185	1.4	
400		~ s 60	Grey + pink	—	½%	1-1½%	—	SAME — more dolo. vn. (some crs.)	265	2.2	

TD - 400'

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-3

PROJECT: SILVERTON County, State: NYE, NV Location: Grant Zone

Coords: N 13 780 E 6590 Collar Elev.: _____ Angle: -90° Bearing: _____

Date: Collared 8/11/88 Completed 8/12/88 Logged by: NMW Total Depth: 400

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide (0 5 20)	goeth (W M S)	hem (W M S)	jar (W M S)	COMMENTS	Au (ppb)	Ag (ppm)	Check
05		100	Brn, red black, milky wt.	—	10%	5%	2-3%	30% silic'd tuff/70% unsilic'd str. arg'n. str. gossan 5-8% glassy qz. 5% spec. hm	155	1.2	
10		100	pink brn. milky wt.	—	7%	5-6%	1%	SAME - 2% spec. hm.	95	.5	
15		100	orange grey	—	10%	Tr	2%	SAME	50	.4	
20		100	"	—	10%	Tr	2%	as above 50% perv sil 50% clay alt 4w/sug sil	50	.4	
25		X 100	red-brown	—	10%	10%	3%	inc hem, 95% stg silt vns w/ clr-sug sil; tr gossan	125	.5	
30		X 100	"	—	10%	10%	3%	v. stg sug sil w/ drusy qtz in vugs + boitry hem on vugs; qtz veins	70	.4	
35		100	red-brn to white	—	7%	< 1%	3%	dec sil - 50-50 sil + cly. white cly-mont? skeletal sil veins fine drusy qtz in vugs	105	.5	
40		100	lgt orange grey to white	—	2%	tr	2%	mod cly alt; some mont chips dec sil + FeOx	55	2.0	
45		100	"	—	2%	tr	1%	mod-stg cly alt; tr sil ~5% perv FeOx stn chips	5	.6	
50		100	"	—	1%	—	tr	dec FeOx; stg arg-mont? alt white cly	5	.2	
55		100	"	—	1%	—	tr	as above - wk sil <5% of chips	-5	.4	
60		100	"	—	2%	tr	tr	inc FeOx, ~15% chips perv lim/goeth stn; tr wk sil	-5	-.2	
65		100	grey; tr lgt orange	—	tr	—	—	inc wk perv sil; dec FeOx	-5	-.2	
70		100	orange grey	~	5%	tr	tr	alt as above; inc FeOx tr white cly	5	-.2	
75		100	orange-grey to brn	—	8%	<1%	1%	inc sug sil + FeOx tr diss v. fne grn hem	-5	-.2	
80		100	"	—	8%	1-2%	1-2%	tr sug sil; stg arg; wh-orange cly ~3%	-5	-.2	
85		100	orange-brn	—	10%	5%	3%	inc FeOx + sug sil; diss hem after oxid py	-5	-.2	
90		100	blck-brn orange+ grey	<1%	4%	<1%	1%	tr unoxid py; stg sug sil blck coatings on fracs-MnOx?	-5	.6	
95		100	orange-blue-grey	<1%	1%	tr	<1%	50% oxid; mod arg-sil alt flecks (tr?) hem? ⬡ hexagonal	-5	-.2	
100		100	"	<1%	1%	tr	<1%	as above - sulfide (or red) rock has v. fne grn diss py	5	-.2	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-3

PROJECT: SILVERTON County, State: NYE CO., NV Location: Grant Zone

Coords: N 13780 E 6590 Collar Elev.: _____ Angle: -90° Bearing: _____

Date: Collared 8/11/88 Completed 8/12/88 Logged by: NMW Total Depth: 400

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
105	v v v v	100	blue-gry to tr orange	1-2%	tr	–	–	75% reduced; wk sil (perv) mod arg; clots coarse py cubes	-5	-.2	
110	v v v v	100	"	2-3%	tr	–	–	40% reduced; otherwise as above	-5	-.2	
115	v v v v	100	orange-brn	–	5%	tr	tr	100% oxid; stg mnox on fract mod arg – wk sil alt	-5	-.2	
120	v v v v	100	"	–	2%	–	–	100% oxid; wk cly alt less mnox on fracts	-5	-.2	
125	v v v v	100	lgt orange to blu-gry	tr	2-3%	tr	tr	40% oxid; coarse py in unox tr mnox: mod arg	-5	-.2	
130	v v v v	100	" + red	tr	2-3%	1%	tr	as above; inc hem; dk gry ŝ? vnlts-tr; coarse py unoxid	-5	-.2	
135	v v v v	100 / wk pyrite	blue-gry / red orange	tr	<1%	~1%	tr	Tr-wk arg; 95% reduced coarse py dk blek chips-mnox stg Dolo perv FeOx stn	5	.2	
140		~50% FeOx stn	red-brn to gry	tr	<1%	1-2%	tr	Tr wk qtz-ŝ alt prob dolo bxa w/ hem matrix	30	.4	
145		"	"	"	tr	1-2%	–	as above	-5	.3	
150		~70% FeOx stn	red-brn to dk gry-grn	–	tr	2-3%	–	as above – stger hem stn	10	.7	
155		"	"	–	tr	2-3%	–	as above	10	.9	
160		" 50% oxid	"	tr	tr	1-2%	–	weakly pyritized w/ v. fine-grn diss py where unoxid	-5	.9	
165		pyritized 95% oxid	red-brn	tr	tr	1-2%	–	95% oxidized	25	.5	
170		10% FeOx	red-brn to dk gry	–	tr	tr	–	recrystlized dolomite; ~10% FeOx stn; tr calcite vnlts	20	.2	
175		10% FeOx	dk gry tr orange	–	tr	–	–	recrystlized dolomite; wk FeOx on fracts; tr bxa chips	15	.2	
180		15% FeOx	" + redbrn	–	tr	tr	–	as above; calcite vning ~1%; inc hem stn	70	.5	
185		50% FeOx	blue-gry to brn	–	3%	1%	–	50% perv FeOx stn; bxa text's; recrystlized dolomite	15	.4	
190	v v v v	100	red-orange to white gry	–	3%	1%	1%	mod arg + sil porphyritic volc; tr micro bxa's in sug sil zones	80	6.2	
195	v v v v	100	orange-blue gry	<1%	3%	<1%	1%	60% oxid; as above	30	1.7	
200	v v v v	100	orange-gry white	–	5%	tr	1-2%	95% oxid; mod arg-sil 50% perv goeth stn; sug sil	50	.8	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-3

PROJECT: SILVERTON County, State: NYE CO, NV. Location: Grant Zone

Coords: N 13780 E 6590 Collar Elev.: _____ Angle: -90° Bearing: _____

Date: Collared 8/11/88 Completed 8/12/88 Logged by: NMW Total Depth: 400

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
205		100	lgt-dk gry brn-red gry-grn	– (no clr visible)	2 %	1 %	–	perv fine-grn sil w/ qtz microvnlts; prob v. fne grn diss S but can't see	245	1.4	
210		100	lgt-md gry to orange	–	1-2 %	< 1 %	tr	more lim on fracts; good perv sil as above	560	1.7	
215		100	dk brnish gry	–	1-2 %	< 1 %	tr	dk sug fine grn sil, prob v. fne grn diss py (can't see) ~1% white qtz vnlts	225	2.7	
220		100	dk gry orange wh gry	–	1-2 %	tr	–	~10% as above; 90% sug sil porphy volc w/ qtz vnlts tr bxa text's; good rx!	110	2.9	
225		100	red-orange gry	–	7 %	2 %	1 %	perv sugary sil; tr drusy qtz vnlts on fracts; bxa text's	130	9.3	
230		100	orange-gry	–	7 %	1 %	1 %	WENT WET. Stg sug sil + drusy qtz + qtz vnlts + vuggy texts + sil	95	3.0	
235		100	red-orange gry	–	9 %	4 %	2 %	Hit struct, lge chips. Inc FeOx; alt as above volc is porphy	230	3.9	
240		100	red-orange	–	15 %	8 %	3 %	stg sug sil; drusy qtz vnlts (clr qtz)	430	3.5	
245		100	red-orange gry	tr	7 %	4 %	tr	less FeOx; less stg sil; tr diss py Perv FeOx	105	6.4	
250		100	"	–	5 %	1 %	tr	gray silica ~70%; sug sil ~30%; Perv FeOx	45	25.3	
255		100	red-orange brn	–	8 %	4 %	3 %	as above MnOx dendrites	10	5.7	
260		100	orange-gry	–	10 %	< 1 %	3 %	50-50 gray sil + sug sil tr dolomite; abt calcite	20	2.3	
265		100	orange	–	10 %	tr	3 %	70% gray sil; 30% perv sil MnOx, calcite vnlts	70	1.9	
270		100	blue-gry	3 %	–	–	–	20% AS ABOVE (CONTACT 266') reduced wkly chlor + arg porphy volc	165	3.1	
275		100	"	"	–	–	–	as above - lge clots of py ~2% dolomite - contamin.	25	.8	
280		100	"	1 %	–	–	–	as above - less py	-5	.2	
285		100	"	1 %	–	–	–	as above - less py	-5	.2	
290		100	"	1 %	–	–	–	" "	60	.9	
295		100	"	1 %	–	–	–	" "	15	.3	
300		100	"	1 %	–	–	–	" "	5	.2	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-3

PROJECT: SILVERTON County, State: NYE CO., NV. Location: Grant Zone

Coords: N 13780 E 6590 Collar Elev.: _____ Angle: -90° Bearing: _____

Date: Collared 8/11/88 Completed 8/12/88 Logged by: DMH Total Depth: 400

LITHOLOGY

- [ ] DOLOMITE
- [ ] TUFF
- [ ] _____

ALTERATION

- [ ] ARGILLIC
- [ ] SILICIFICATION
- [ ] SILICA VEINING
- [ ] QUARTZ VEINING
- [ ] Chlorite

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
305	v v v v v v	CCC 10 CCC 10 10	blue-gry	1%	–	–	–	wk arg chloritic tuff	10	-.2	
310	v v v v v v	CCC 10 10	blue gry	2%	–	–	–	wk chloritic tuff feldspars cloudy	30	.3	
315	v v v v v v	CCC 10 10	blue-gray	1%	–	–	–	same	-5	-.2	
320	v v v v v v	CCC 7 5	blue gray	tr	–	–	–	wk chloritic tuff feldspars slightly cloudy w calcite	-5	-.2	
325	v v v v v v	CCC 7 5	blue gray	tr	–	–	–	Same w calcite (5%)	-5	-.2	
330	v v v v v v	CCC 7 5	blue gray	tr	–	–	–	same	-5	-.2	
335	v v v v v v	CCC 7 5	blue gray	tr	–	–	–	Same calcite 5%	-5	-.2	
340	v v v v v v	CCC 7 5	blue gray	tr	–	–	–	calcite 3%	-5	-.2	
345	v v v v v v	CCC 7 3	blue-gray	tr	–	–	–	wk chloritic tuff: feldspars slightly cloudy calcite 3%	5	-.2	
350	v v v v v v	CCC 7 3	blue-gray	?	–	–	–	Same calcite 3%	20	.3	
355	v v v v v v	CCC 7 3	blue-gray	?	–	–	–	Same calcite 3% tr epidote	30	-.2	
360	v v v v v v	CCC 7 3	blue-gray	?	–	–	–	Same calcite 3% tr epidote	30	-.2	
365	v v v v v v	CCC 7 3	green-gray	tr	–	–	–	wk altered tuff 5% apple green sericite calcite 2%	25	-.2	
370	v v v v v v	CCC 7 3	green gray	tr	–	–	–	same Qtz phenos smoky	10	-.2	
375	v v v v v v	CCC 7 2	green gray	?	–	–	–	Same 5% apple green sericite tr. calcite	20	-.2	
380	v v v v v v	CCC 7	green gray	?	–	–	–	Same 8% apple green sericite tr. calcite	20	-.2	
385	v v v v v v	CCC 5	green gray	–	–	–	–	Same 10% pale green sericite tr. calcite	20	-.2	
390	v v v v v v	CCC 5	green gray	–	–	–	–	Same 8% pale green sericite tr. calcite	25	-.2	
395	v v v v v v	CCC 3	green gray	–	–	–	–	Same 8% pale green sericite tr. calcite	15	-.2	
400	v v v v v v	CCC 3	green gray	–	–	–	–	Same 10% pale green sericite tr. calcite	20	-.2	

Page ___ of ___

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-4

PROJECT: Silverton County, State: Nye, NV Location: Prince Albert Zone

Coords: N 15700 E 6920 Collar Elev.: _____ Angle: 90 Bearing: _____

Date: Collared 8/12/88 Completed 8/13/88 Logged by: DMH Total Depth: 345

LITHOLOGY

- [ ] DOLOMITE
- [ ] TUFF
- [ ]
- [ ]
- [ ]

ALTERATION

- [ ] ARGILLIC
- [ ] QUARTZ VEINING
- [ ] SILICIFICATION
- [ ]
- [ ] SILICA VEINING
- [ ]

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au (ppb)	Ag (ppm)	Check
05	vv vv	20	Tan		20%	5%	tr	variably silicified Tuff	10	-.2	
10	vvv vvv	20 30	Tan-brown		20	3%	–	some very silicified chunks	5	-.2	
15	vvv vvv	15 30	Tan-brown		20	3	–	Tuff - plagioclase cloudy but hard	-5	-.2	
20	vvv vvv	15 30	Tan brown		20	3	–	same	5	-.2	
25	vvv vvv	15 40	Tan brown		20	tr	tr	same	-5	-.2	
30	vvv vvv	15 50	brown		30	5	1	Tuff - silica veinlets in matrix of tuff	5	-.2	
35	vvv vvv	10 60	white to brown		15	1	1	same only more silicified	30	.7	
40	vvv vvv	10 60	white to brown		15	1	1	same	125	.8	
45	vvv vvv	15 60	light yellow brown		5	1	7	feldspars mod clay matrix silica Tuff	45	.5	
50	vvv vvv	10 60	brown		15	–	5	same	20	-.2	
55	vvv vvv	15 40	brown		20	5	1	feldspars - 1/2 clay most of rest silica Hem in fractures	15	-.2	
60	vvv vvv	15 40	brown		20	7	1	same	-5	-.2	
65	vvv vvv	15 30	Tan-brown		20	5	–	same	-5	-.2	
70	vvv vvv	15 30	Tan-brown		20	5	–	same	5	-.2	
75	vvv vvv	15 70	brown		25	3	1	Tuff - matrix completely silicified weak Clay in feldspars	-5	-.2	
80	vvv vvv	15 70	brown		30	3	1	same	-5	-.2	
85	vvv vvv	10 70	brown		30	5	1	same	-5	-.2	
90	vvv vvvv	10 70	brown to white	2	10	1	–	same	-5	-.2	
95	vvv vvv	10 70	white (brown)	3	10	1	–	Tuff - matrix - str. silic very fine Pyrite	-5	-.2	
00	vvv vvv	5 cc cc 60	white (brown)	3	3	–	–	chlorite very patchy	-5	-.2	

Page ____ of ____

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-4

PROJECT: Silverton County, State: Nye, NV Location: Prince Albert Zone

Coords: N 15700 E 6920 Collar Elev.: _____ Angle: 90 Bearing: _____

Date: Collared 8/12/88 Completed 8/13/88 Logged by: DMH Total Depth: 345

LITHOLOGY

- DOLOMITE
- TUFF
- Quartzite

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
105		10 70	lt. gray (brown)	3	5		1	Tuff- m-str. silica mostly in matrix cal afte mafics	5	-.2	
110		10 70	lt. gray (brown	3	5		1	pyrite in veinlets	10	-.2	
115		15 70	tan		10	3		Tuff- matrix silicified clay in phenos	-5	-.2	
120		15 70	tan		10	3		same	-5	-.2	
125		15 70	lt. brown		15	5	5	same	20	.6	
130		15 70	lt. brown		15	4	5	same	5	.4	
135		10 70	yellow brown		15	5	8	same	210	.9	
140		10 70	white yellow brown		15	5	10	same	260	2.6	
145		10 70	lt. yellow brown		5	1	10	same Jarosite in veinlets	245	2.4	
150		10 70	lt. brown		10	3	5	same	265	1.2	
155		10 60	tan		5	1	5	Tuff- matrix silicified plag to clay + qtz	80	.8	
160		10 60	white (brown)	3	2	–	1	same	35	.7	
165		5 70	gray	5	–	–	–	pyrite probably in veins very little disseminated	-5	-.2	
170		5 70	gray (brown)	4	5	–	–	same ~~w~~ some oxidized	-5	.7	
175		70			5		1	~~Tuff~~ white Quartzite	10	5.5	
180		100	lt. brown		25			white Quartzite 20% brown clay, fault?	20	4.2	
185			brown		25			clayey gouge	35	2.0	
190			brown		25			clayey gouge ~~Tuff~~	20	2.0	
195		10 70	Very lt. brown		7	1	2	Tuff- mostly silicified weak clay in plag	10	.4	
200		10 70	white + brown	tr	15	2	1	same	-5	-.2	

wet ↓

Page ___ of ___

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-4

PROJECT: Silverton County, State: Nye, NV Location: Prince Albert Zone

Coords: N 15700 E 6920 Collar Elev.: _____ Angle: 90 Bearing: _____

Date: Collared 8/12/88 Completed 8/13/88 Logged by: DMH Total Depth: 345

LITHOLOGY

- DOLOMITE
- TUFF
- Quartzite

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
205	VVV VVV	10 50	med. Brown		20	tr	tr	tuff - mod. silicified matrix - weak calcite	-5	-.2	
210	VVV VVV	10 50	med Brown		15	tr	tr	Same weak calcite	-5	.2	
215	VVV VVV	15 50	med Brown	2	15	tr	tr	appears to have many lithics - pyrite in clots	-5	-.2	
220	VVV VVV	5 70	white	4	2	—	—	Strongly silicified tuff pyrite in veins? weak calcite	-5	-.2	
225	VVV VVV	5 70	white	4	2	—	—	same weak calcite	-5	-.2	
230	VVV VVV	5 70	tan	tr	10	2	3	Same limonite veins? weak calcite	-5	-.2	
235	VVV VVV	5 70	tan	tr	10	2	4	Tuff, mostly oxidized weak calcite	-5	-.2	
240	VVV VVV	50 10	brown	—	10	10	10	appears to be very clayey - could be gouge	-5	-.2	
245		90	dark gray	4	—	—	—	3 aspheroid weak calcite very fine grained py 3% Qtz veins	-5	-.2	
250		XX 60	dark gray	tr				3 aspheroid & dolomite w 10% calcite - 5% Qtz vns 5% dolo veins - v. fine py	-5	-.2	
255		XX 10	dark gray	tr				dolomite - some silicification 5% dolo veins 1% Qtz veins Tuff	10	-.2	
260	VVVV VVVV	60	tan to pink		7	15	2	Tuff - feldspars mostly to clay - matrix to clay	65	-.2	
265	VVVV VVVV	60	tan to pink		10	10	2	Same	10	-.2	
			dark gray					dolo bx			
270		2 XX	dark gray		1	1		dolo bx - afew Qtz veins - 5% dolo veins limonite on fractures	10	-.2	
275			dark gray		tr	1		dolo bx - 3% dolo veins weak calcite	5	-.2	
280			dark gray		tr	1		Same	-5	-.2	
285			dark gray		tr	1		Same Same	15	-.2	
290			dark gray		tr	1		Same	20	-.2	
			"		tr	1		same			
295	VVVV	25 25	red-brown		7	7		Tuff - mod silicification	60	.2	
	VVVV		red brown		7	7		feldspars to clay			
300			white			tr		Quartzite - trace dolo	35	.5	

Page ____ of ____

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-4

PROJECT: Silverton County, State: Nye, NV Location: Prince Albert Zone

Coords: N 15700 E 6920 Collar Elev.: _____ Angle: 90 Bearing: _____

Date: Collared 8/12/88 Completed 8/13/88 Logged by: DMH Total Depth: 345

LITHOLOGY

- DOLOMITE
- TUFF
- Quartzite

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	Jar W M S	COMMENTS	Au	Ag	Check
305			white to gray		3	tr		about 20% dolo chips	25	.5	
			white								
310		30 40	red brown		20	10	2	weakly silicified tuff mostly clayey plag	80	1.4	
315		40 10	red brown		10	10		same	125	1.0	
320		30 40	red brown		10	10	2	matrix mostly silicified plag very clayey	135	.5	
325			gray + white			1		coarse dolo. up to 30% white dolo veins	20	.3	
						1					
330		40						Tuff mostly argillized	40	.6	
			dark gray								
335			lt. gray			1		mostly bleached dolo bx 5% dolo vein	45	.6	
340			lt. gray + dark gray			2		1/2 bleached dolo bx 3% dolo vein	25	.1	
345			dark gray		1	1		15% bleached dolo bx 7% dolo veins	15	.2	
350											
355											
360											
365											
370											
375											
380											
385											
390											
395											
400											

Page ___ of ___

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-5

PROJECT: Silverton County, State: Nye, NV Location: Prince Albert Zone

Coords: N 15600 E 7190 Collar Elev.: _____ Angle: 65 Bearing: S 71 E

Date: Collared 8/13/88 Completed 8/13/88 Logged by: DMH Total Depth: 340

LITHOLOGY

- [ ] DOLOMITE
- [ ]
- [ ] TUFF
- [ ]
- [ ]
- [ ]

ALTERATION

- [ ] ARGILLIC
- [ ] QUARTZ VEINING
- [ ] SILICIFICATION
- [ ]
- [ ] SILICA VEINING
- [ ]

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
05		40 15	Tan brown		15	10	2	mostly argillized tuff	240	.8	
		40 15			15	10	2	tuff			
10		xxx	gray		1	1		dolo - some jasperoid 5% Qtz vein	175	3.7	
15		10 30 xx xx	gray to brown		5	2		dolo - 1/3 jasperoid 10% Qtz vein	170	1.5	
20		10 xx xx	lt gray to gray		4	1	tr	1/2 dolo 1/2 bleached 10% Qtz veins	45	.7	
25		15 15 xx xx	gray		2		tr	white Qtz veins 5% dolo vns	155	2.6	
30		10 10 xx xx	gray		2		tr	white Qtz vein 2% dolo vns	15	.7	
35		2 5 xx xx	gray		2			dolo - some bleached 3% dolo vns	30	.9	
40		10 50 xx xx	gray		5	2		1/2 silicified white Qtz vns 5% dolo vein	430	4.2	
45		50 45 xx xx	dk gray + white		2	2	tr	vussy Qtz vns dark silica 5% dolo	385	4.3	
50		5 15 xx xx	gray		2	4	tr	few Qtz vns hem on fractures	230	1.3	
55		3 30 xx xx	gray		2	4	tr	mostly dark dolo some hem - lt. gray jasperoid	300	1.0	
60		2 xx	tan-gray to lt. red		1	10		bleached dolo variable hem stained	300	1.1	
65		4 xx	tan-gray to lt. red		1	8		same	240	1.5	
70			tan-gray to lt. red		6	10		argillized tuff	300	1.5	
75			same		2	10		bleached dolo variable hem stained	45	1.4	
80			tan-gray to brick red		2	15		same	45	1.0	
85			same		1	20		same	80	1.1	
90		50	gray-red	3	3	10		bleached dolo - Hematitic 1/2 1/2 jasperoid with diss Py	60	.4	
		100	gray	10				jasperoid Py vns			
95		20 2	lt. gray	2				Tuff - mod. silicified	50	.2	
100		50 10	blue gray	6				Tuff feldS completely to clay, Py diss	-5	-.2	

Page ____ of ____

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-5

PROJECT: Silverton County, State: Nye, NV Location: Prince Albert zone

Coords: N 15600 E 7190 Collar Elev.: _____ Angle: 65 Bearing: S 71 E

Date: Collared 8/13/88 Completed 8/14/88 Logged by: DMH Total Depth: 340

LITHOLOGY

- [x] DOLOMITE
- [ ]
- [x] TUFF
- [ ]
- [ ]
- [ ]

ALTERATION

- [x] ARGILLIC
- [x] QUARTZ VEINING
- [x] SILICIFICATION
- [ ]
- [x] SILICA VEINING
- [ ]

		LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
	105		50 10	blue gray	8				Tuff. feldspars to clay matrix weak silica py diss w. cc	-5	-.2	
	110		50 10	blue gray	10				Same tr. Qtz ven w. cc.	-5	-.2	
	115		50 10	blue gray	8				Same tr. Qtz vn. w. cc	90	.6	
wet	120		50 10	blue gray	8				Same w. cc	30	-.2	
	125		50 15	blue gray	10				Same	-5	-.2	
	130		50 15	blue gray	10				Same	10	-.2	
	135		40 25	blue gray	10				Same no cc a few Py veins	10	-.2	
	140		40 25	blue gray	10				Same no cc	5	-.2	
	145		20 35	blue gray	10				Same 5% cc	-5	-.2	
	150		20 35	blue gray	10				Same 5% cc a few Py veins tr. Chl. a few Qtz veins	-5	-.2	
	155		20 35	blue gray	10				Same	-5	-.2	
	160		25 25	blue-gray / brown	10	20	2		Same	-5	-.2	
	165		30 20	red brown		10	10		Same no Py	5	-.2	
	170			black & red		2	20		hematitic dolo ~30% no hem	15	-.2	
	175			black & red		5	25		Same	20	-.2	
						10	5	tr	Tuff			
	180		40 10	white lt. brown		8	5	4	mostly argillized Tuff - feldspars clayey to hard	10	-.2	
	185		40 10	white & lt. brown / gray		8	5	4	Same	25	.2	
	190			dark gray		1	tr	tr	gray dolo limonite on fractures	15	-.2	
	195			dark gray		1	tr	tr	limonite a bit diss mainly fractures	15	.2	
	200			dark gray		3	3	tr	~20% bleached dolo w/ weak limonite	35	-.2	

Page ____ of ____

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-5

PROJECT: Silverton County, State: Nye, NV Location: Prince Albert Zone

Coords: N 15600 E 7190 Collar Elev.: _____ Angle: 65 Bearing: S 71 E

Date: Collared 8/13/88 Completed 8/14/88 Logged by: DMH Total Depth: 340

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
205			dark gray		2	2	tr	dolo - some corals 3% dolo veins limonite on fractures	20	-.2	
210			gray		4	2	1	20% bleached - weak limonite in bleached	25	-.2	
215			gray		5	3	1	Same 30% bleached	20	.2	
220			gray		5	3	1	Same 30% bleached	35	-.2	
225			Tan to brick red		5	10	1	dolo - weakly clayey w. cc. completely limonite stained	180	.4	
230		10 100	gray (tan)	1	1			completely silicified - fine Qtz veins, Py in Qtz veins	35	.3	
235		10 100	gray (tan)	1	1			same	55	.4	
240		15 100	gray white	1				same Qtz veins to 1/4"? Py in veins	15	-.2	
245		15 100	gray white	1				same	5	-.2	
250			dark gray					same dolo bx 10% dolo veins	-5	-.2	
255			dark gray					same	-5	-.2	
260			dark gray		1			same 20% dolo veins	-5	-.2	
265	No Recovery										
270			dark gray					dolo bx 10% dolo veins	10	-.2	
275			dark gray					dolo bx 10% dolo vns	-5	-.2	
280			dark gray		tr		tr	dolo bx - limonite on fractures 20% dolo vns	-5	-.2	
285			lt. gray					poor recovery bleached dolo	10	-.2	
290			dark gray orange red		10	5 1 5	1	TUFF - mod clay mod silic dolo-Bx 1% vns	-5	.4	
295			gray to lt. gray		1	1		dolo bx - a bit bleached TUFF	-5	.3	
300		10 20	white to tan	4	4			mod altered TUFF w. cc. tr. chl py diss.	-5	-.2	

Page ___ of ___

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-5

PROJECT: Silverton County, State: Nye NV. Location: Prince Albert Zone

Coords: N 15600 E 7190 Collar Elev.: _____ Angle: 65 Bearing: S 71 E

Date: Collared 8/13/88 Completed 8/14/88 Logged by: DMH Total Depth: 340

LITHOLOGY

- [ ] DOLOMITE
- [ ] TUFF
- [ ]
- [ ]
- [ ]

ALTERATION

- [ ] ARGILLIC
- [ ] QUARTZ VEINING
- [ ] SILICIFICATION
- [ ]
- [ ] SILICA VEINING
- [ ]

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
305		20 10	blue-gray + Tan	5	4			Tuff- poor recovery 20% calcite Tr cal	10	-.2	
310		20 10	blue-gray + Tan	5	4			tr apple green sericite 10% calcite 20% oxidized	5	-.2	
315		20 10	blue-gray + Tan	5	8			Tuff - 3% apple gre. ser. 5% calcite 30% oxidized	-5	-.2	
320		20 10	blue-gray + Tan	4	10			3% apple green sericite 5% calcite 50% oxidized	5	-.2	
325		30	lt. brown	tr	15			5% calcite 95% oxidized	-5	-.2	
330		30	lt. brown	tr	15			99% oxidized	-5	-.2	
335		20	blue-gray + brown	4	7			feldspars partially to clay 5% cc - 50% ox.	-5	-.2	
340		20	blue-gray + brown	3	5			same 40% ox.	-5	-.2	
345											
50											
55											
60											
65											
70											
75											
80											
85											
90											
95											
00											

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-6

PROJECT: Silverton County, State: Nye NV Location: Prince Albert Zone

Coords: N 15660 E 7260 Collar Elev.: _____ Angle: 90 Bearing: _____

Date: Collared 8/14/88 Completed 8/14/88 Logged by: DMH Total Depth: 165

LITHOLOGY

- DOLOMITE
- TUFF

ALTERATION

- ARGILLIC
- QUARTZ VEINING
- SILICIFICATION
- SILICA VEINING

	LITH	ALT	COLOR	% sulfide 0 5 20	goeth W M S	hem W M S	jar W M S	COMMENTS	Au	Ag	Check
05		40 15	Tan		10	5	2	Top 2' may be fill	10	1.0	
10		40	Tan		10	5	2	tuff	15	.5	
			brown-gray		2			gray dolo			
15		40 15	Tan		5	10	tr	tuff	160	.8	
20		60 100	white-black		4	2		very coarse Qtz vns Jasperoid	555	14.5	
25		60 100	white-black		4	2		Jasperoid very coarse Qtz Vns void -24-25	660	9.4	
30		60 100	white-black		2	3		Jasperoid - V.C. Qtz vns	590	12.2	
35			dark gray		1	1		Jasperoid - V.C. Qtz dolo - limonite on fractures	565	46.6	
40		5 50	dark gray		1	tr		1/2 dolo 1/2 jasperoid	370	19.8	
45		60	dark gray		1	tr		1/2 dolo 1/2 jasperoid	585	26.9	
50		60	lt. Tan		5	2	2	Tuff - rather clayey	20	.4	
55		60	lt. Tan	~~4~~	5	2	2	70% oxidized	70	.4	
60		50 15	Orange blue-gray	6	8		2	variable silica 3% cc mostly clay 40% oxidized	5	-.2	
65		50 15	orange blue-gray	6	8	1	1	Same 3% cc 40% oxidized	-5	-.2	
70		30 30	orange blue-gray	4	10	3	1	more silicified feldspars - part clay 40% oxidized	250	1.2	
75		30 40	brown blue-gray	4	10	1	2	Same 50% oxidized	60	.7	
80		50 15	Tan blue-gray	4	8	1	2	pretty clayey Tr. CC 50% Oxidized	90	.6	
85		60 15	blue-gray Tan	6	6		1	pretty clayey Py diss 30% oxidized Tr. CC	15	.3	
90		60 10	blue-gray	8	tr			after Py veins most diss tr. CC	20	-.2	
95		50 15	blue gray	8				Py diss 5% cc	-5	-.2	
00		40 15	blue gray	8				feldspars slightly clayey 5% cc	10	-.2	

Page ____ of ____

WESTERN GOLD
EXPLORATION AND MINING COMPANY

DRILL HOLE SL-88-6

PROJECT: Silverton County, State: Nye, NV Location: Prince Albert Zone

Coords: N 15660 E 7260 Collar Elev.: _____ Angle: 90 Bearing: _____

Date: Collared 8/14/88 Completed 8/14/88 Logged by: DMH Total Depth: 165

LITHOLOGY

- [x] DOLOMITE
- [ ]
- [x] TUFF
- [ ]
- [ ]
- [ ]

ALTERATION

- [x] ARGILLIC
- [x] QUARTZ VEINING
- [x] SILICIFICATION
- [ ]
- [x] SILICA VEINING
- [ ]

	LITH	ALT	COLOR	% sulfide (0 5 20)	goeth (W M S)	hem (W M S)	jar (W M S)	COMMENTS	Au	Ag	Check
105	✓✓✓ ✓✓✓	50 10	blue gray	8				Tuff - mod. argillized py diss tr. cc.	5	-.2	
110	✓✓✓ ✓✓✓	50 10	blue gray	8				same tr. cc	-5	-.2	
115	✓✓✓ ✓✓✓	50 5	blue gray	8				same	-5	-.2	
120	✓✓✓ ✓✓✓	50 5	blue gray Tan	4	10			pretty clayey 50% oxidized	-5	-.2	
125	✓✓✓ ✓✓✓	50 5	brown		15		1	clayey plag ~ 1/2 clay	5	-.2	
130	✓✓✓ ✓✓✓	50 5	brown		15	7	2	10% dolo lithics? dolo clayey	-5	-.2	
135	✓✓✓ ✓✓✓	50 5	brown		15	7	2	15% dolo lithics dolo weakly clayey	-5	-.2	
140	✓✓✓✓		brown		10	10	1				
		XXX 50	white-gray					very coarse qtz vein	5	-.2	
145		5 XX	Chocolate brown		40	5		very contaminated soft dolo - limonite void a few qtz veins	5	-.2	
wet 150		8 50 XX	pink & gray		2	8		qtz veins to 1/2" 1/2 sdsp. 1/2 hem dolo clayey	-5	-.2	
155		15 2 SS	pink gray			10		locally strong calcite clayey dolo	-5	-.2	
160		10 tr SS	pink gray			10		same tr qtz vein	-5	-.2	
165		5 1 SS	lt. gray Orange		20	5		1% qtz vns mostly Goe stained weakly clayey dolo	-5	-.2	
170											
175											
180											
185											
190											
195											
200											

Page ___ of ___

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 0-100 DRILL HOLE: SL-88-7

PROJECT: Silverton County, State: Nye, NV Location: Silver King Zone

Coords: 16420 N 12390E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/12/88 Completed 10/13/88 Logged by: DMH Total Depth: 400

LITHOLOGY

DOLOMITE QUARTZITE

TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein Si/Ca %	vein %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
05					25	25					2			100	White to tan	In part scraped up material	110	.3	
10					10	40					2			100	White to brown	Just some chunks have Goe.	60	.2	
15					5	50				tr	3			98	White to brown	feldspars - to clay & matrix about 2 % diss Py in atew chips	225	.2	
20					5	50					4		1	100	White to brown	~~felsr~~	70	.1	
25			tr		10	50					5		2	100	White to brown	feldspars to clay matrix variably silicified black opaline veinlet	100	.2	
30			tr		50	20					5			100	White to tan	atew gray chalcedonic vns fairly silicified	105	.2	
35					50	20					3		1/2	100	White to tan		90	.2	
40		tr			50	20					4		1/2	100	White to tan	matrix silicified feldspars fairly clayey fine Qtz vn > 1/4"	430	.2	
45					40	30					5		1	100	White to brown	matrix clayey to silicified feldspars clayey	290	.4	
50		20			50	20					7		1	90	White to brown	about 10% Stibnite in vn fine Qtz	190	3.9	
55					40	30					6		1	100	White to Tan	a few lithics	340	.3	
60					50	20				tr	6		1	95	White to Tan	atew lithics w/ upto 10% Py, Tuff upto 3% Py	370	.5	
65					50	20					3		1	100	White (brown)	feldspars & matrix mostly silicified	150	.6	
70					30	40					tr		1	100	white	felds & matrix more clayey	65	.2	
75					30	40				1	1		1	90	White	3-5% Py in unox	80	.4	
80					30	50				1	tr		2	80	White		235	.6	
85					30	60				4				0	gray	Py diss up to 50% Py in few lithics	85	.2	
90					20	80				5				0			-5	.1	
95					20	80				5				0		bit of gypsum	165	.2	
					20	80				5				0		some gypsum	25	.1	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 100 - 200 DRILL HOLE: SL-88-7

PROJECT: Silverton County, State: Nye, NV Location: Silver King Zone

Coords: 16420N 12390E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/12/88 Completed 10/13/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein pyr. %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
105	VVV VVV				10	60				7				0	gray -	few litnies heavy Py Py appears diss.	10	.1	
110	VVV VVV	tr			10	50				7				0	gray	same white Qtz vn > 1/4"	150	.6	
115	VVV VVV				5	50				8				0	gray	feldst matrix almost all to clay.	50	.3	
120	VVV VVV				5	60				8				0	gray	Same most of coarse is qtz phenos	55	.4	
125	VVV VVV				5	60				8				0	gray	Same a few fragments of Py	-5	.1	
130	VVV VVV				5	60				8				0	gray	Same	15	.1	
135	VVV VVV				10	50				8				0	gray	Same - a few silicified pieces	45	.1	
140	VVV VVV				5	60				8				0	gray	Same	60	.1	
145	VVV VVV				5	60				8				0	gray	Same	25	.1	
150	VVV VVV				5	60				8				0	gray	Same	50	.1	
155	VVV VVV			tr	10	60				8				0	gray	a bit more silicified a few Py veins	-5	.1	
160	VVV VVV			tr	10	60				8				0	gray	Same	25	.1	
165	VVV VVV			tr	10	60				8				0	gray	Same	-5	.1	
170	VVV VVV			tr	10	60				8				0	gray	Same - a few gypsum vns	130	.1	
175	VVV VVV			tr	10	60				8				0	gray	Same - most Qtz phenos in coarse fraction - a few pieces of Py - most Py diss	350	.4	
180	VVV VVV			tr	10	50				8				0	gray	Same	260	.2	
185	VVV VVV			tr	10	50				8				0	gray	Same	570	1.2	
190	VVV VVV			tr	10	50				8	tr			0	gray		270	.3	
195	VVV VVV			tr	15	50				8	tr			1	gray	Goe on fractures	190	.3	
	VVV VVV			tr	15	50				10	tr			1	gray	Goe on fractures strongly diss Py	110	1.3	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 200-300 DRILL HOLE: SL-88-7

PROJECT: Silverton County, State: Nye, NV Location: Silver King Zone

Coords: 16420N 12390E Collar Elev: _____ Angle: 90° Bearing: _____

Date Collared 10/12/88 Completed 10/13/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	clay %	Calcite %	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	Au	Ag	
205	VVV VVV				15	50				5				0	gray	2% lithics	140	.3	
210	VVV VVV				15	50				5				0	gray	15% lithics	-5	.1	
215	VVV VVV VVV				15	50				8				0	gray	15% lithics - black + silicified some with strong pyrite	-5	.1	
220	VVV VVV				20	50				8				0	gray to black	30% lithics some	-5	.1	
225	VVV VVV				20	50				8				0	gray to black	30% lithics	-5	.1	
230	VVV VVV				20	50				9				0	gray to black	15% lithics	-5	.1	
235	VVV VVV				20	50				9				0	gray	15% lithics	-5	.1	
240	VVV VVV				20	50				5				0	gray	15% lithics	-5	.1	
245	VVV VVV				30	40				5				0	gray	40% lithics - mostly silicified gray - some black	-5	.1	
250	VVV VVV				30	40				5				0	gray	3% lithic	-5	.1	
255	VVV VVV	10			30	40				5				0	gray	Qrz vein white w/ adularia? ~~upto~~ > ½" minor py in Vn	-5	.1	
260	VVV VVV				20	50	3			5				0	gray	diss calcite - mainly in feldspar 3% lithic	-5	.1	
265	VVV VVV				20	50	3			5				0	gray	3% lithic	-5	.1	
270	VVV VVV				20	50	5			5				0	gray	10% lithic	-5	.1	
275	VVV VVV				20	50	5			5				0	gray	10% lithic	-5	.1	
280	VVV VVV				20	50	3			4				0	gray	10% lithic - often are unsilicified	-5	.1	
285	VVV VVV				20	50	3			4				0	gray	10% lithic - often unsilicified	-5	.1	
290	VVV VVV				10	60				8				0	gray	>1% lithic	-5	.1	
295	VVV VVV				10	60				8				0	gray	>1% lithic	-5	.1	
	VVV VV				10	60				4				0	gray	5% lithic	-5	.1	

10/12
10/13

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 300-400 DRILL HOLE: SL-88-7

PROJECT: Silverton County, State: Nye, NV Location: Silver King Zone

Coords: 16420 N 12390 E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/12/88 Completed 10/13/88 Logged by: DMH Total Depth: 400

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %	calcite %	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	Au	Ag	
					10	60				4				0	gray to black	15% dolo lithics very little pyr in lithics	15	.1	
305		71			60	5				20				0	black	mostly silicified dolo with strong diss py a few Qtz-py veins	140	.7	
310		71			60	5				20				0	black	same	130	1.1	
315		tr			10	60	tr			8				0	gray	~~tr~~ tuff like before no lithics	10	.1	
320					10	60				8				0	gray	same	-5	.1	
325					5	60				tr	10	5	1	95	red-brown	a few lithics	75	.4	
330					5	60					10	5	1	100	red-brown		45	.5	
335					50									100		1/2 silicified 1/2 dolo			
340		tr		2	10									100	dark gray	fine-grained dolo - a few corals - a few dolo veins tr qtz veins - weak silicified	-5	.1	
345				1	10							1		100	gray		60	.1	
350					30						5	10		100	gray to brown		55	.6	
355					20							5		100	gray to pink	~~Stop~~ spotty silicification	30	.1	
360		3		5	20						1	5		100	gray to pink	spotty silicification a few thin Qtz veins	120	1.8	
365		3		5	20							3		100	gray	same	25	.2	
370		tr			10	60				8				0	gray	rather argillized tuff py diss	20	.2	
375					10	60					1	10		100	pinkish		60	.7	
380												5		100	pinkish		15	1.2	
385												5 2			gray	spotty hematite stained dolo	25	.1	
390												3			light gray	very recrystallized dolo	-5	.1	
395												3			light gray	same	-5	.1	
				5								3			gray to dark gray	less bleached	-5	.1	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 0-100 DRILL HOLE: SL-88-8

PROJECT: Silverton County, State: Nye, NV Location: Silver King Zone

Coords: 16200N 11930E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/13/88 Completed 10/15/88 Logged by: DMH Total Depth: 370

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	ppb Au	ppm Ag	
																Fill - no sample			
05					15	50					5		1	100	white to tan	argillized tuff - some silicification - feldspars + matrix mostly to clay	55	1.1	
10					15	50					2		4	100	white to yellow	same 1% lithic	125	.6	
15					15	50					1		3	100	white	~~2%~~ 3% lithic	140	.7	
20					15	50				3	tr		1	75	white to gray	5% lithic	40	.5	
25					30	30				1	2		1	25	white to gray	some tuff very silicified 15% lithic - silicific	40	1.0	
30					30	30				3	tr			25	white	- - - - - - - -	100	4.3	
35		5			80					1	1	1		50	gray				
40		10			80					3	1	1		50	gray	Qtz vned partially silicified dolo - some Qtzite	630	2.9	
45		1			80					tr	1			50	dark gray	mostly silicified dolo fine grained	340	2.6	
50		5			80					tr	3			50	gray to dark gray	a few clear Qtz veins	480	3.5	
55					50	30				2	3			50	white to tan	fairly silicified tuff 5% lithic	215	2.1	
60					40	40				tr	3	1		90	white to tan	same	170	2.0	
65					40	40				3	2	tr		40	gray + white	same 3% lithic	215	1.8	
70					40	40				1	3	tr		80	white to tan	same	220	1.4	
75					40	40				3	3			40	gray + brown	same 5% lithic	200	1.5	
80					30	50				5	tr			10	gray	1% lithic	175	0.9	
85					30	50				5	tr			10	gray	1% lithic	280	1.2	
90					50	30				8	tr			5	gray	mainly matrix silicified	165	1.5	
95					20	60				8	tr			5	gray	pretty much argillized py diss	90	6.3	
					10	60								0	gray	stain	75	0.8	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 100-200 DRILL HOLE: SL-88-8

PROJECT: Silverton County, State: Nye, NV Location: Silver King Zone

Coords: 16200N 11930E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/13/88 Completed 10/15/88 Logged by: DMH Total Depth: 370

LITHOLOGY: DOLOMITE, QUARTZITE, TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	% vein	% vein	silicification %	% clay	%	%	%	% pyrite	% goethite	% hematite	% jarosite	% oxidation	COLOR	COMMENTS	Au	Ag	
					30	50				7	2			75	gray + brown	mostly silicified feldspars very clayey	130	1.4	
105					40	40					8	1	tr	100	tan	same 1% litanic	90	1.5	
110					40	40					6	tr		100	Tan		75	1.3	
115					100						3		tr	100	lt. gray to tan	fine-grained Jasperoid	140	5.4	
water 120					100						3			100	lt. gray to tan	Same	210	3.1	
wet					30	50					10			100	brown				
125					30	50					10			100	brown				
					100						4			100	lt. gray	fine grained Jasperoid	165	3.4	
130					10	60					10			100	brown	pretty-well argillized Tuff	140	2.5	
135					10	60				3	3			20	gray brown	Same	90	7.3	
140					10	60				4	1			5	gray	Same	60	3.6	
145					10	60					8			100	brown				
					100						1	3		100	gray	fine-grained Jasperoid	190	22	
150		tr			100						1	3		100	gray	fine-grained Jasperoid a few opaline veins	80	6.3	
155					100						3	3		100	gray	Same	150	2.4	
160					100						3	3		100	gray		140	3.3	
165					100						1	3		100	gray				
						80								100	brown		100	2.2	
170						80						5		100	white to pink	much white clay with hematite stain (fault?)	140	1.8	
175						90						5		100	white to pink	fault gouge? sticky clay	100	2.2	
180						90						3		100	gray	gray dolo	75	3.6	
10/13 10/14 185											1			100	gray		90	1.1	
190											1	2		100	gray to lt. gray	in part bleached dolo a bit hematitic	140	1.5	
195										tr		4		100	pink to gray		30	.3	

WESTERN GOLD
EXPLORATION AND MINING COMPANY

Interval 200-300 DRILL HOLE: SL-88-8

PROJECT: Silverton County, State: Nye, NV Location: Silverking Zone

Coords: 16200N 11930E Collar Elev: _____ Angle: 90 Bearing: _____

Date Collared 10/13/88 Completed 10/15/88 Logged by: DMH Total Depth: 370

LITHOLOGY: DOLOMITE; QUARTZITE; TUFF

F = fracture
D = disseminated

	LITH	vein quartz %	vein %	vein dolomite %	silicification %	clay %	%	%	%	pyrite %	goethite %	hematite %	jarosite %	oxidation %	COLOR	COMMENTS	ppb Au	ppm Ag	
205											tr	5		100	pink + gray	variably hematitic dolo	30	.3	
210												1		100	gray		100	.3	
215		3			20						1	5		100	pink + gray	very thin qtz + silica veins variably hematitic	60	.1	
220				20							tr	6		100	pink white + gray	strong irregular dolo vns	10	.1	
225				20								6		100	pink + gray	same tr. gypsum	15	.1	
230				10								3		100	gray		80	.1	
10/14 235				2							tr	1		100	gray	gray dolo with minor hematite	-5	.1	
10/15 240				5							tr	1		100	gray	same	-5	.1	
245				5							tr	4		100	gray + pink		15	.1	
250				2							tr	5		100	lt. gray + pink	bleached fine grained spotty hem	30	.1	
255				8							tr	5		100	lt. gray + pink	same	-5	.1	
260				5							tr	5		100	gray + pink	gray fine-grained dolo spotty hem - thin dolo veins	15	.1	
265				10							1	5		100	gray	same	25	.1	
270				5								5		100	gray + pink	same	-5	.1	
275				7							tr	5		100	gray + pink	same	-5	.1	
280				5							1	15		100	pink + gray	quite hematitic	15	.1	
285				5								5		100	gray + pink	fine grained dolo spotty hematite	-5	.1	
290				5								10		100	pink + gray	a bit bleached	-5	.1	
295				1								5		100	gray + pink	gray dolo	-5	.1	
				1								2		100	gray		-5	.1	

Geology of the Silverton Mining District Nye County, Nevada for Olympic Mining Corporation

Willard D. Tompson
Grant C. Crooker

April, 1981

CONTENTS

SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

Silver mineralization replaces brecciated, silicified dolomite at Olympic Mining Corporation's Silverton property, Silverton mining district, Nye County, Nevada. Mineralization appears to occur mostly in silicified dolomites in the hanging wall of the Silverton fault, a wide, north-striking fault which is mapped over a length of 4600 feet.

Wide spaced drill holes at several locations along 2000 feet of the fault intersected great widths of ore-grade silver mineralization at depths from which ore could be recovered by open pit mining methods. Other intersections were made of substantially greater widths of marginal and sub-marginal silver mineralization. Three examples are shown here;

1. An intersection of ore-grade rock was made at 55 to 80 feet and 105 to 125 feet in RDH 81-12, making a total of 45 feet grading 3.75 ounces per ton of silver, excluding the interval 80 to 105 feet
2. Drill hole number one intersected 135 feet of mineralization which averaged 0.33 ounces of silver per ton
3. Drill hole 81-10 intersected 80 feet of mineralization which averaged 1.07 ounces of silver per ton in the interval 135 to 215 feet and an additional 40 feet averaging 1.93 ounces of silver per ton in the interval 245 to 285 feet, all well within the limits of recovery by open pit mining methods.

An extensive drilling program is recommended in order to identify open pit reserves. The drilling program is estimated to cost $1,655,500.

An underground testing program is expected to be required in order to confirm drill results. That program will cost about $2,000,000.

LIST OF ILLUSTRATIONS

Plates

Figures

Geology of the Silverton Mining District
Nye County, Nevada

PROPERTY AND LOCATION

Silverton lies in the southern half of the Pancake Range in east-central Nevada (Figs. 1 and 2). Small shipments of oxidized silver ore were made from Silverton in the mid 1930's which were reported to carry values in argentite, cerargyrite and native silver (Kral, 1950). According to Bonham (1967) total production was less than 10,000 ounces.

Silverton mining district takes its name from the mine. Production was from two adits and a shaft with perhaps some production from other small adits, a small inclined shaft and several small hand dug pits.

Like many other mountain ranges in the Basin and Range province of Nevada and Utah, Pancake Range strikes northerly. It is flanked on the east by Railroad Valley and on the west by Big Sand Springs Valley (Fig. 1). Railroad Valley was occupied by a lake until recent times (Hubbs and Miller, 1948) but now is dry except for drenched mud flats during periods of heavy run-off.

Near the centre of the district latitude is 38°31' north and longitude is 115°52'30" west.

Magnetic north is 16 degrees east of true north.

Railroad Valley is the most prominent landmark in the area. It strikes north-northeasterly and is 50 miles long and up to 12 miles wide. Elevations are 4700 and 4900 feet. One all-weather blacktop road, which is 6 miles long crosses the north end of the valley at the site of the Railroad Valley oil field.

Silverton is less than one mile from U.S. Highway 6. The nearest railway is at Ely, Nevada about 80 miles northeasterly. Tonopah is 86 miles southwesterly from Silverton.

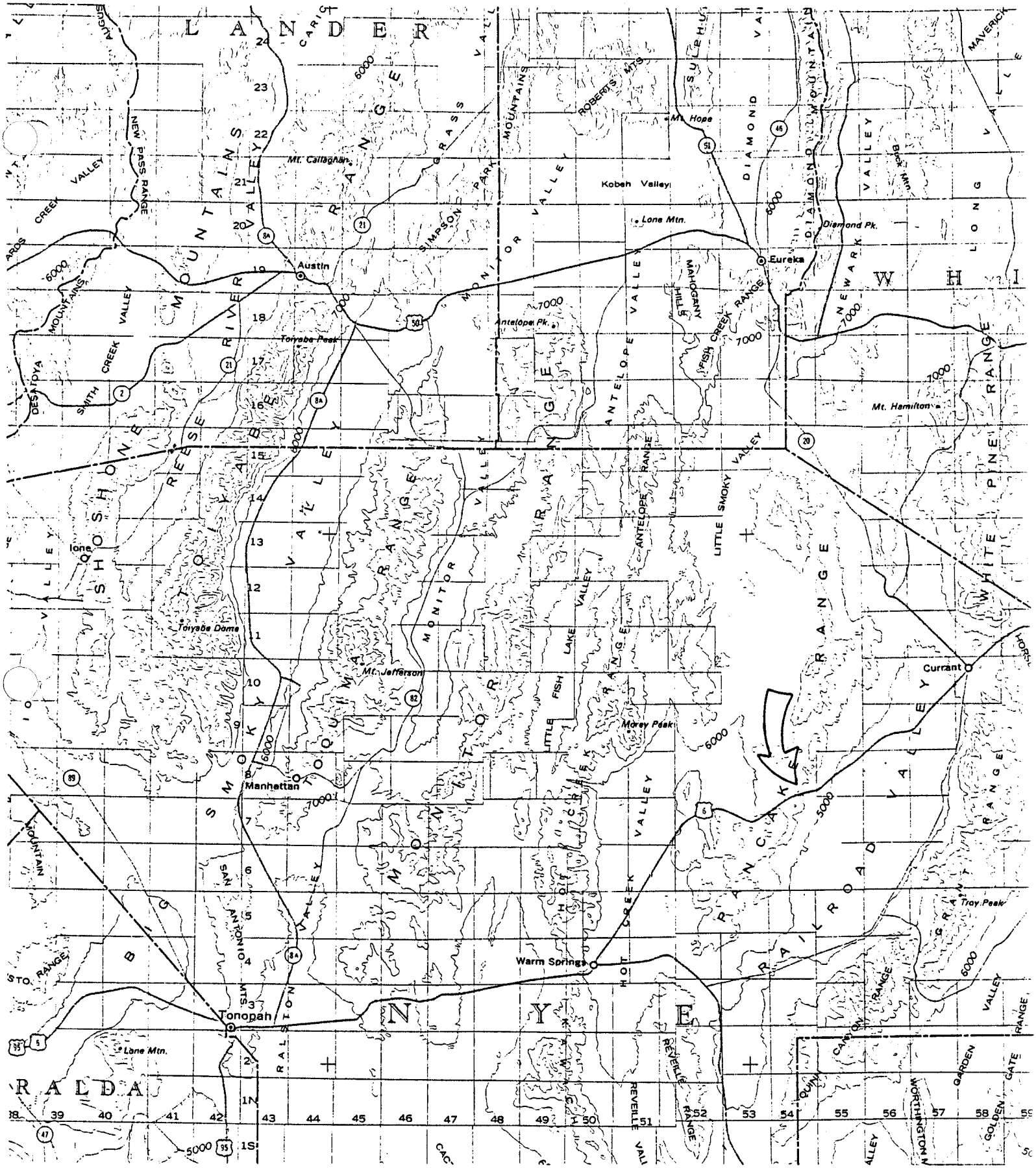


Figure 1. - Map showing location of Silverton.
Scale, 1:1,000,000

OWNERSHIP AND HISTORY

Mineral Economics Corporation, a Nevada corporation, is the registered owner of 118 mining claims and 4 millsites which are held by right of location. The mining claims were located between the years of 1914 and 1945 and apparently have been maintained to this date.

35 claims, located in 1914
12 claims, located in 1917
19 claims, located in 1919
24 claims, located in 1934
4 claims, located in 1935
24 claims, located in 1945
4 millsites located in 1970

A group of claims called the Pony claims were staked in 1965 by Alf. O. Westby and Madison D. Locke of Ely, Nevada. A Lease and Option agreement was acquired from Madison Locke, Alf O. Westby and Maureen Westby on the Pony claims;

Pony No. 1 - 10 inclusive
Pony No. 13 - 16 inclusive
Pony No. 50 - 55 inclusive

A map of the Pony claims, dated August 31, 1972, File Number 4417 is filed with the Nye County Recorder, Tonopah, Nevada.

Rex W. Huntley, Reno, Nevada entered into a Lease and Option agreement with Mineral Economics Corporation. Duration of the agreement is from July 1, 1979 to June 30, 1989. Southern Olympic Oil and Gas, Inc., a Texas corporation acquired an assignment from Rex W. Huntley.

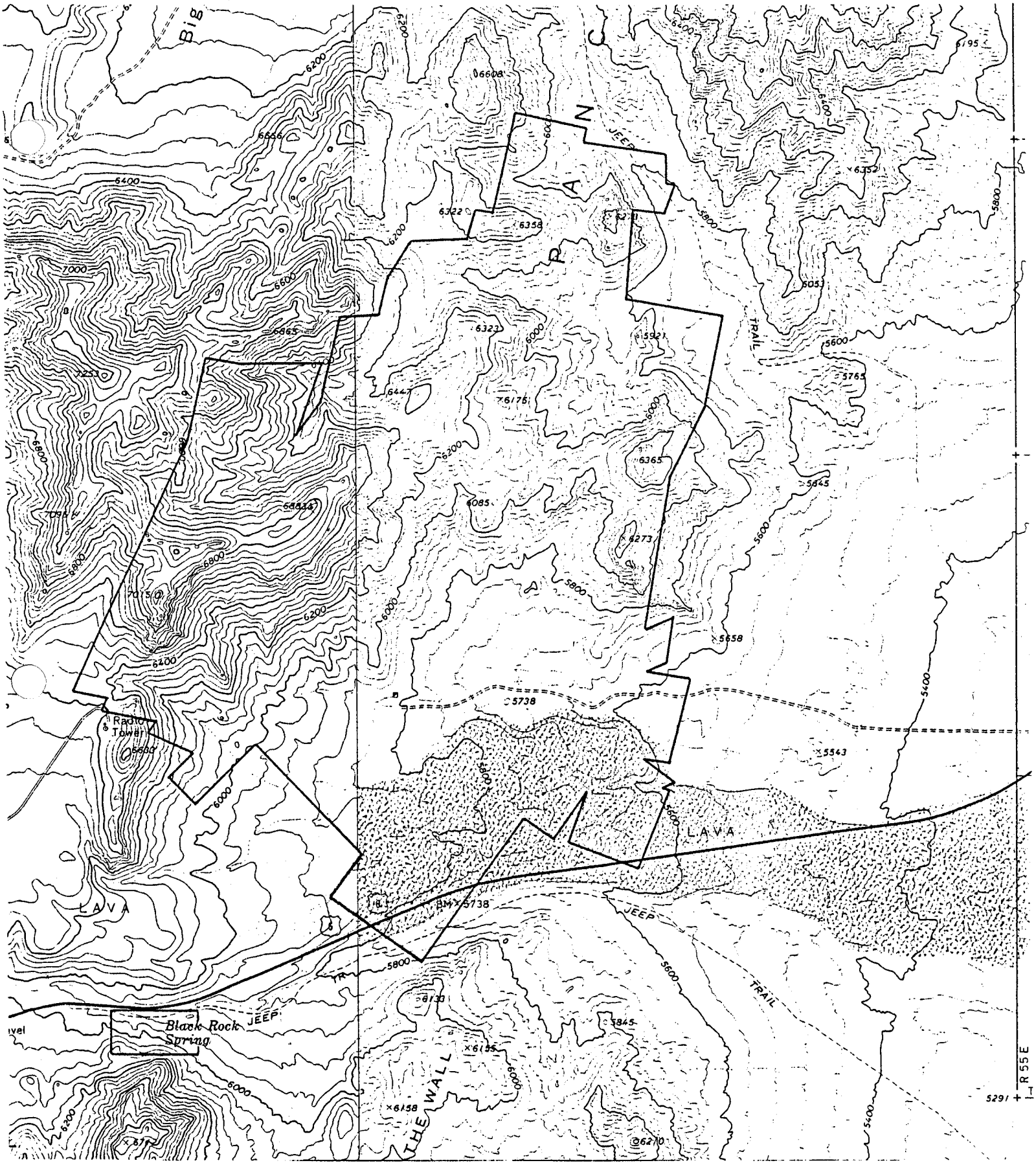


Figure 2. - Topographic map of Silverton area, showing location and shape of claim blocks
Scale, 1:24,000

	Claim Name	Date of Location	Book No.	Page No.	BLM No.
1.	Afterthought No.1	7/3/45	101	124-125	98331
2.	Afterthought No.2	8/31/45	101	125-126	98332
3.	Alto No. 1	7/27/14	248	416	98333
4.	Alto No. 2	7/27/14	248	417	98334
5.	Alto No. 3	7/37/14	248	418	98335
6.	Alto No. 4	7/27/14	248	419	98336
7.	Alto No. 5	7/27/14	248	420	98337
8.	Alto No. 6	7/27/14	248	421	98338
9.	Blackhawk No. 1	7/1/45	101	134	98339
10.	Blackhawk No. 2	7/1/45	101	135	98340
11.	Blackhawk No. 3	7/1/45	101	135-136	98341
12.	Blackhawk No. 4	7/1/45	101	136	98342
13.	Blackhawk No. 5	7/1/45	101	136-137	98343
14.	Blackhawk No. 6	7/1/45	101	137	98344
15.	Blind Pig	4/11/17	248	422	98345
16.	Butte Ex	7/24/14	248	423	98346
17.	Combernation	9/27/14	61	303-304	98347
18.	Eclipse	2/28/19	248	424	98348
19.	Eldorado	4/14/19	66	80	98349
20.	Elephant No. 1	7/24/34	91	396	98350
21.	Elephant No. 2	9/10/35	91	396-330	98351
22.	General Grant	7/24/14	61	317-318	98352
23.	General Grant No.1	7/24/14	61	318-319	98353
24.	General Grant No.2	7/24/14	61	319	98354
25.	General Grant No.3	7/24/14	61	320	98355
26.	Golden West	2/26/17	63	209	98356
27.	Golden West No. 1	2/26/17	63	210	98357
28.	Golden King	2/28/19	66	81-82	98358
29.	Grand Prize	2/28/19	66	81	98359
30.	Hermit	4/14/19	66	78-79	98360
31.	Iron Crown	7/25/14	248	425	98361
32.	Iron Crown Ex	7/25/14	248	426	98362
33.	Iron Crown Ex #1	7/25/14	248	427	98363
34.	Iron Crown No. 2	7/25/14	248	428	98364
35.	Iron King	7/25/14	248	429	98365
36.	Iron King No. 1	7/25/14	61	304-305	98366
37.	Iron King No. 2	7/25/14	61	305-306	98367
38.	Iron King No. 3	7/25/14	248	430	98368
39.	Iron King No. 5	7/25/14	61	306	98369
40.	Iron King No. 6	7/25/14	61	307	98370
41.	Jubilee No. 1	7/1/45	101	126	98371
42.	Jubilee No. 2	7/1/45	101	126-217	98372
43.	Jubilee No. 3	7/1/45	101	127	98373
44.	Jubilee No. 4	7/1/45	101	127-128	98374
45.	Jubilee No. 5	7/1/45	101	128	98375
46.	Jubilee No. 6	7/1/45	101	129	98376
47.	King of All	7/28/14	248	431	99377
48.	La Plata M.Co. No.1	8/14/34	248	433	98378

	Claim Name	Date of Location	Book No.	Page No.	BLM No.
49.	La Plata M.Co. No.2	8/14/34	248	434	98379
50.	La Plata M.Co. No.3	8/14/34	248	435	98380
51.	Little Corporal	4/14/19	66	79-80	98381
52.	Little Sergent	4/14/19	66	77-78	98382
53.	Manhattan No. 1	7/2/45	101	133	98383
54.	Manhattan No. 2	7/2/45	101	133-134	98384
55.	May Flower No. 1	5/23/34	91	392	98385
56.	May Flower No. 2	5/23/34	91	392	98386
57.	May Flower No. 3	5/23/34	91	392-393	98387
58.	May Flower No. 4	5/23/34	91	393	98388
59.	Monte Carlo City	7/28/14	61	308-309	98389
60.	Monte Carlo City No.1	7/28/14	61	309-310	98390
61.	Pioneer	2/28/19	248	436	98391
62.	Pioneer No. 1	2/28/19	248	437	98392
63.	Pioneer No. 2	2/28/19	248	438	98393
64.	Prince Albert Fraction	7/27/14	248	439	98294
65.	Prince Albert No. 1	7/27/14	61	331	98395
66.	Prince Albert No. 2	7/27/14	61	332	98396
67.	Prince Albert No. 3	7/27/14	61	332-333	98397
68.	Prince Albert No. 4	7/27/14	61	333	98398
69.	Real Monte Carlo	7/18/14	61	307-308	98399
70.	Red Top	7/26/14	61	323-324	98400
71.	Silver	7/27/14	248	440	98401
72.	Silver Dike	7/2/45	248	441	98402
73.	Silver Ex #1	7/28/14	248	442	98403
74.	Silver Dollar	5/25/34	91	393	98404
75.	Silver Dollar No. 1	3/20/19	66	157-158	98405
76.	Silver Dollar No. 2	5/23/34	91	393	98406
77.	Silver Dollar Fraction	3/10/19	248	443	98407
78.	Silver King Mining Claim	2/24/19	65	568	98408
79.	Silver King No. 1	2/28/19	66	75	98409
80.	Silver King No. 2	2/24/19	65	568-569	98410
81.	Silver King No. 3	2/24/19	65	569-570	98411
82.	Silver King No. 5	2/28/19	66	76	98412
83.	Silver King No. 6	2/28/19	66	76-77	98413
84.	Silver King Fraction	3/10/19	248	444	98414
85.	Silver Peak Ex	4/12/17	63	405-506	98415
86.	Silver Peak Ex No.2	4/12/17	63	406	98416
87.	Silver Queen	7/26/14	61	324-325	98417
88.	Silver Queen No.1	5/25/34	91	394	98418
89.	Silver Queen No.2	5/23/34	91	394	98419
90.	Silver Queen No.3	8/10/34	91	395	98420
91.	Silver Queen Ex	8/11/34	248	445	98421
92.	Silver Queen Ex.No.1	8/12/34	248	446	98422
93.	Silver Queen Ex.No.2	8/12/34	248	447	98423
94.	Silver Queen Ex.No.3	8/12/34	248	448	98424
95.	Silver Queen Ex.No.4	8/12/34	248	449	98425
96.	Silver Queen Ex.No.5	8/12/34	248	450	98426

	Claim Name	Date of Location	Book No.	Page No.	BLM No.
97.	Silver Queen Ex No.6	8/12/34	248	451	98427
98.	Silver Queen Ex No.7	8/12/34	248	452	98428
99.	Silver Queen Fraction	9/10/35	248	453	98429
100.	Silver Queen Tunnel	9/10/35	91	394	98430
101.	Silverton	4/11/17	248	454	98431
102.	Silverton No. 1	7/2/45	101	129-130	98432
103.	Silverton No. 2	7/2/45	101	130	98433
104.	Silverton No. 3	7/2/45	101	130-131	98434
105.	Silverton No. 4	7/2/45	101	131	98435
106.	Silverton No. 5	7/2/45	101	132	98436
107.	Silverton No. 6	7/2/45	101	132-133	98437
108.	Silverton No. 7	7/2/45	248	455	98438
109.	Sunrise	4/11/17	248	456	98439
110.	Sunrise No. 1	4/11/17	248	457	98440
111.	Tip Top	4/11/17	63	458	98441
112.	Tuxedo	4/11/17	248	458	98442
113.	Tuxedo No. 1	4/11/17	248	459	98443
114.	Valley View	4/11/17	248	460	98444
115.	Woodrat No. 1	7/2/34	91	395	98445
116.	Woodrat No. 2	7/2/34	91	395	98446
117.	Woodrat No. 3	9/2/35	91	395-396	98447
118.	La Plata M.Co (Association Placer Mining Claim	8/14/34	248	432	98448
119.	J. C. Tognoni Millsite # 1	8/22/70	136	177	98449
120.	J. C. Tognoni Millsite # 2	8/22/70	136	178	98450
121.	J. C. Tognoni Millsite # 3	8/22/70	136	179	98451
122.	J. C. Tognoni Millsite # 4	8/22/70	136	180	98452

GEOLOGY

Sedimentary Rocks

The oldest rocks in the Silverton mining district are gray to smokey gray, thick bedded dolomites. They produce a fetid odor on fresh breaks and contain beds which are crowded with the remains of branching corals, giving rise to the term "spaghetti beds" as used by Westgate and Knopf (1932, pp. 16-18) in their work at Pioche. The corals are believed to be *Cladopora*. Their fossil remains at Silverton are coarsely crystalline and up to 2 centimeters long and 2 millimeters in diameter.

The dolomite is believed to belong to the Simonson Dolomite of Middle Devonian age or to the Silverhorn Dolomite of Upper Devonian age. Tschanz and Pampeyan (1970) in their work in Lincoln County, Nevada noted that it is difficult to distinguish the Simonson and Silverhorn Dolomites.

The dolomite crops out over an area of about 2500 feet by 6000 feet (Plate I). Bedding strikes mostly northeasterly with dips from 10 to 30 degrees southeasterly. No abrupt changes in bedding attitudes were noted.

White to gray quartzite occurs east of the main Silverton shaft (Plate I). Sand grains are visible under the hand lens, but otherwise are obscure.

The outcrop area of quartzite is very small, being only about one acre. Westgate and Knopf (1932, p.17) noted two thin quartzite beds in the Upper Silverhorn Dolomite.

Extrusive Rocks

More than half of the Silverton area is underlain by volcanic rocks which are felsic in composition. They are mostly rhyolitic and latitic welded tuffs and volcanic ash flows with some shallow intrusive (subvolcanic) rocks. Lithic fragments of shale, dolomite and quartzite commonly occur in the volcanic rocks and may be up to several inches in diameter.

The volcanic rocks are strongly kaolinized and sericitized which is believed to be a result of hydrothermal alteration with superposed chemical weathering.

A prior report by this writer (Tompson, 1980) incorrectly identified these altered volcanic rocks as intrusive rocks. The rocks were subsequently examined petrographicly by M.J. Hibbard, Reno, Nevada and some of those rock descriptions are included in Appendix I of this report.

The rhyrolitic to latitic ash-flows and tuffs are shown by Stewart (1980, p.100) to be 34 to 17 million years old and thus are Eocene to Miocene in age. In the Silverton area they are believed to lie upon Tertiary erosion surfaces which were

developed upon Devonian dolomite (Plates I and II). Quaternary erosion has partially exhumed dolomite in the northwest and south-central part of the map area. In the centre of the map area, dolomite was raised along the Silverton fault and another sub-parallel high angle reverse fault which lies west of the Silverton fault, and dolomite was thrust above the volcanic rocks (Plate II).

Later Volcanic Rocks

The southern part of the map area at Silverton is underlain by a basalt flow which is believed to be Pliocene in age. The flow is about 2000 to 3000 feet wide and up to 75 feet thick. It flowed from a vent near Black Rock Summit and down a small valley and appears to have terminated near the east side of the district.

This flow is related in time and space to the volcanic events near Lunar Crater, which lies about 14 miles southwest from Silverton. The basalt flows, cinder cones and maars near Lunar Crater are younger than 6 million years (Stewart, 1980).

The Silverton fault passes into overburden near the main shaft (Plate I) and probably continues southerly beneath overburden and beneath the basalt. If so, the fault is clearly older than the basalt as there is no offset in the basalt.

Faults

Two principal faults are known in the area, the Silverton fault and a subparallel fault which is here called the West fault.

Silverton fault strikes northerly from the Silverton shaft and is from 100 to 450 feet wide. Dolomite on the west side of the fault is up relative to rocks on the east (Plate I).

West fault strikes about N25W. Rocks on the east side of the fault are up relative to the west. This fault is believed to be a high angle reverse fault and has resulted in thrusting of Devonian dolomite over the Cenozoic volcanic rocks. A few detached blocks of dolomite are lying upon volcanic rocks and are believed to have reached their present position by gravitational gliding (Plates I and II).

The block of dolomite lying between the Silverton fault and West fault is a horst and is displaced upward relative to the rocks on each side of it.

ALTERATION AND MINERALIZATION

Ash Flows and Welded Tuffs

All rhyolitic and latitic ash flows and welded tuffs throughout the Silverton area display advanced hydrothermal alteration with probable superposed chemical weathering. Biotite is commonly pseudomorphed by sericite, phrophyllite or chlorite and feldspars are replaced by kaolinite. Relict glassy fragments are devitrified and replaced by alteration minerals.

Dolomite

Dolomite which lies within the walls of Silverton fault is brecciated, bleached and stained buff to pink in color. Locally, tiny veinlets of earthy hematite stand in relief above the altered dolomite.

A large area of bleached dolomite lies between Silverton fault and West fault (Plate I) and it is noted that rock samples taken from this area contain high values in silver. A rock cairn constructed December 5, 1920 by J.C. Tognoni for the Silver Gulch claim lies within this area of bleached dolomite. The cairn contains rocks rich in calcite with tiny grains of tetrahedrite.

Jasperoid

Most jasperoid occurences at Silverton lie east of Silverton fault. They lie along an obscure, poorly defined belt which strikes about N 20 W to N 30 W. The jasperoid bodies are commonly irregular in outcrop pattern and have their large dimension striking N 10 E to N 30 E. Most occur within areas underlain by dolomite or in near proximity to dolomite outcrops.

Jasperoid is believed to have formed as epigenetic replacement deposits of dolomite. It is light gray to dark

gray on the fresh surface and is rusty brown on weathered surfaces. It is fine grained to slightly sugary textured. Jasperoid occurs as concordant and cross cutting bodies in dolomite and is competent and resistant to weathering.

Oxidation

Outcrops at Silverton display much evidence of oxidation. No sulfide minerals except stibnite were observed in outcrops or in surface trenches. Stibnite was observed in volcanic rocks near map coordinates 17,000 N - 12,800 E.

Pyrite occurs with quartz in drill hole RDH 81-10 through the interval 130 to 305 feet. Rusty pyrite occurs with quartz in RDH 81-11 through the interval 90 to 180 feet. Thus, some oxidation occurs to at least 180 feet of depth.

ROTARY REVERSE CIRCULATION DRILL PROGRAM, JANUARY 16 to FEBRUARY 22, 1981

Record of Drilling

Thirteen rotary air hammer drill holes were drilled during the period January 16 to February 22, 1981. Total drilling was 4,940 feet:

RDH 81-1	500 feet
RDH 81-2	500 feet
RDH 81-3	500 feet
RDH 81-4	500 feet
RDH 81-5	500 feet
RDH 81-6	235 feet
RDH 81-7	500 feet
RDH 81-8	270 feet
RDH 81-9	400 feet
RDH 81-10	500 feet
RDH 81-11	295 feet
RDH 81-12	145 feet
RDH 81-13	95 feet
Total	4,940 feet

Drill hole numbers 6, 8, 11, 12 and 13 terminated prior to target depth due to extreme caving in the holes. All holes were to be drilled to 400 to 500 feet. Plate III shows the locations of the drill holes.

Drill cuttings were piped to a cyclone and fed into a Jones-type sample splitter which produced a sample of 1/8 of

the cuttings. The sample interval was 5 feet.

All samples were fire assayed for their content of gold and silver.

Assays were done by Western Testing Laboratories, Sparks, Nevada. Copies of Reports of Analysis are included in Appendix II of this report.

Drill cuttings were mounted on sludge boards and were examined with a stereo microscope in order to determine the lithology of the rocks from the drill holes. Figures 3 to 15 of this report are assay sections of the drill holes with corresponding lithologic logs.

Descriptive logs of the drill holes are shown on pages 28 to 51.

Results of Drilling

Drill holes 81-4, 81-5, 81-9, 81-10 and 81-12 contained intersections of silver mineralization which may be considered to be ore grade intersections as mined by open pit methods;

Drill Hole	Footage	Interval	Au(oz./T)	Ag(oz./T)
RDH 81-4	10-25	15	0.001	1.94
RDH 81-5	5-60	55	0.009	2.19
RDH 81-9	90-115	25	nil	2.05
RDH 81-10	135-215	80	Tr	1.07
RDH 81-10	245-285	40	0.024	1.93
RDH 81-12	55-80	25	0.005	4.11
RDH 81-12	105-125	20	0.001	3.31

Drill holes 81-1, 81-2, 81-3 and 81-11 contained large intersections of lower grade mineralization which suggests that the drill holes may be near ore grade mineralization.

Drill Hole	Footage	Interval	Au(oz./T)	Ag(oz./T)
RDH 81-1	10-145	135	0.002	0.33
RDH 81-1	330-395	65	Tr	0.53
RDH 81-3	25-50	25	Tr	0.21
RDH 81-11	5-20	15	0.002	0.30
RDH 81-11	60-190	130	0.001	0.23

Drill holes 81-6, 81-8 and 81-11 were abandoned in caving ground, but assays at the bottom of the holes contained significant mineralization:

Drill Hole	Footage	Interval	Au(oz./T)	Ag(oz./T)
RDH 81-6	220-235	15	nil	0.38
RDH 81-8	245-260	15	nil	0.37
RDH 81-11	280-295	15	0.002	0.35

These results in drill holes 81-6, 81-8 and 81-11 suggest that ore grade mineralization may exist below the bottoms of the holes.

Drill hole RDH 81-10 completed at 500 feet and the interval 400 - 490 feet assayed: Au, Trace, Ag, 0.030. Other ore intersections may exist below the bottom of drill hole 81-10.

R.DH No. 1

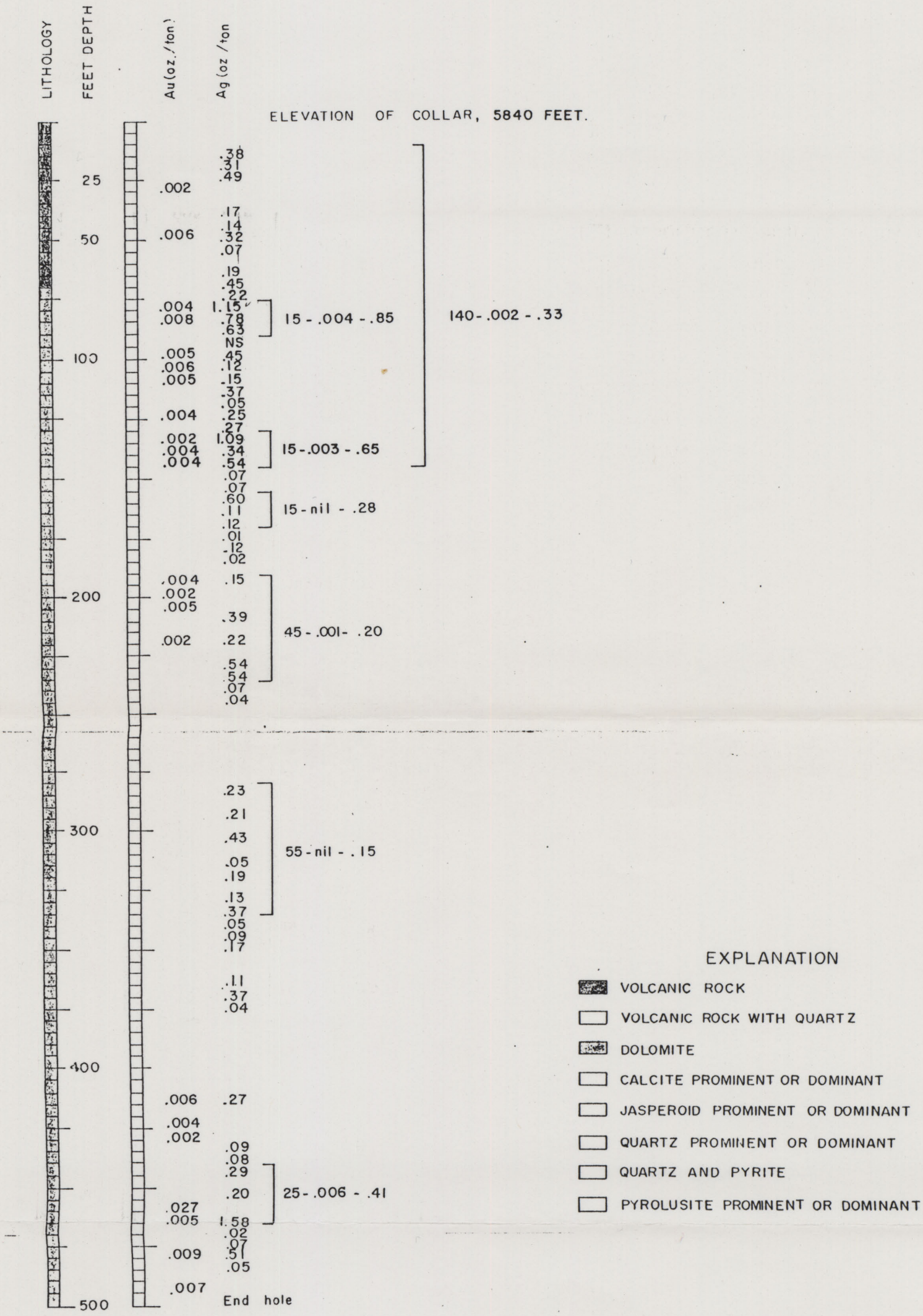


Figure 3

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 1

SILVERTON PROJECT

Nye County, Nevada

Willard Tompson and Grant Crooker

March 9, 1981

ASSAY ORDER WIDTH (H) -Au (oz./T.) -Ag (oz./T)

Scale: 1" = 50'

4440 0012

R.DH No.2

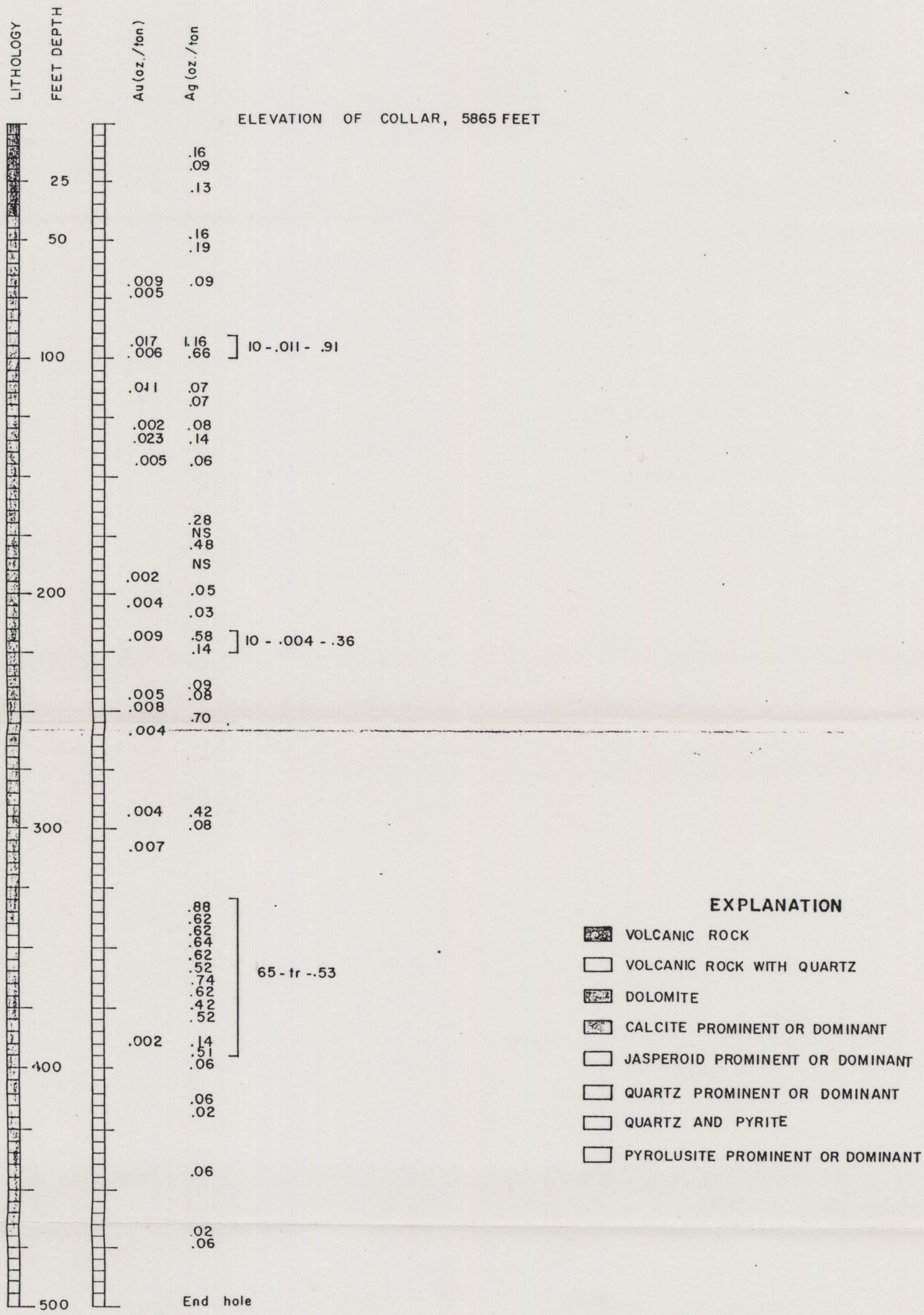


Figure 4

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 2

SILVERTON PROJECT

Nye County, Nevada

Willard Tompson and Grant Crooker

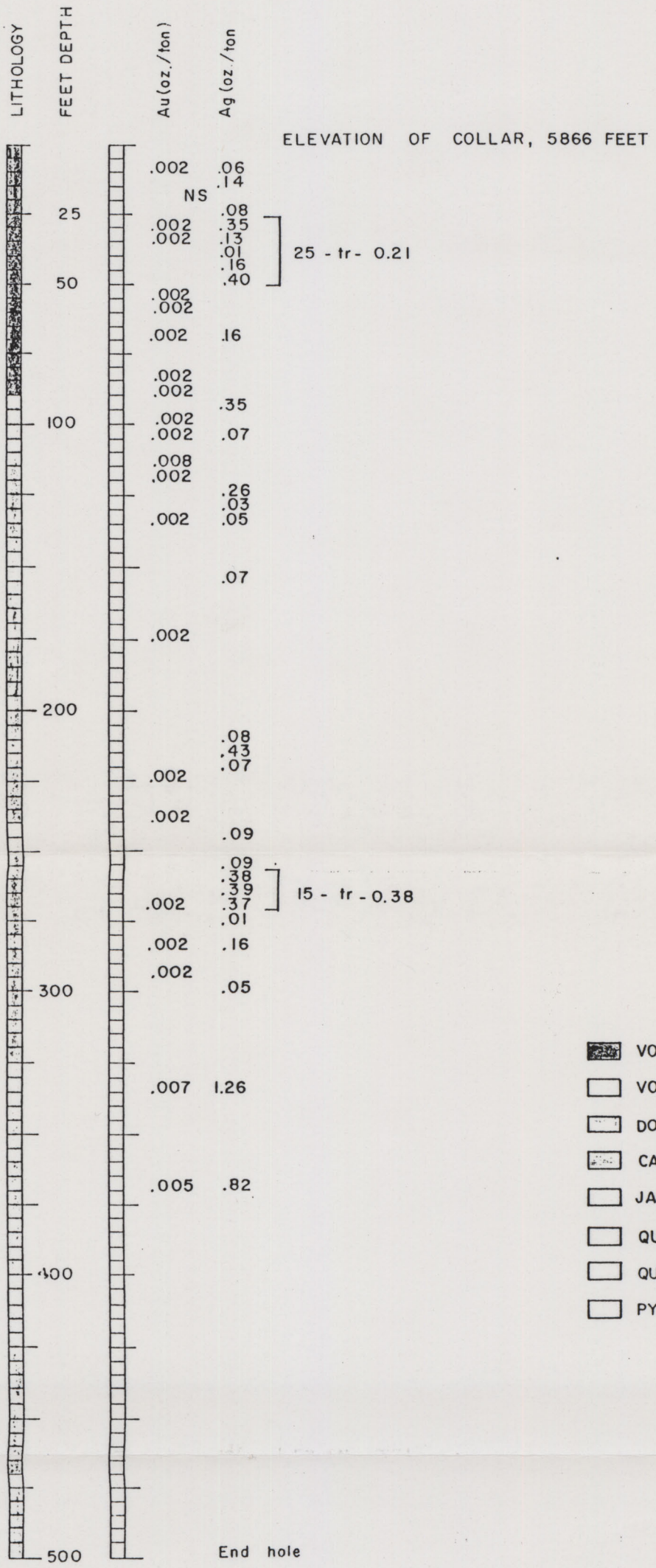
March 9, 1981

ASSAY ORDER WIDTH (H) -Au (oz./T.) -Ag (oz./T)

Scale: 1" = 50'

4440 0012

R.DH No. 3



EXPLANATION

- VOLCANIC ROCK
- VOLCANIC ROCK WITH QUARTZ
- DOLOMITE
- CALCITE PROMINENT OR DOMINANT
- JASPEROID PROMINENT OR DOMINANT
- QUARTZ PROMINENT OR DOMINANT
- QUARTZ AND PYRITE
- PYROLUSITE PROMINENT OR DOMINANT

Figure 5

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 3

SILVERTON PROJECT

Nye County, Nevada

Willard Tompson and Grant Crooker

March 9, 1981

ASSAY ORDER WIDTH (H) -Au (oz./T.) -Ag (oz./T)

Scale: 1" = 50'

4440 0012

R.DH No. 4

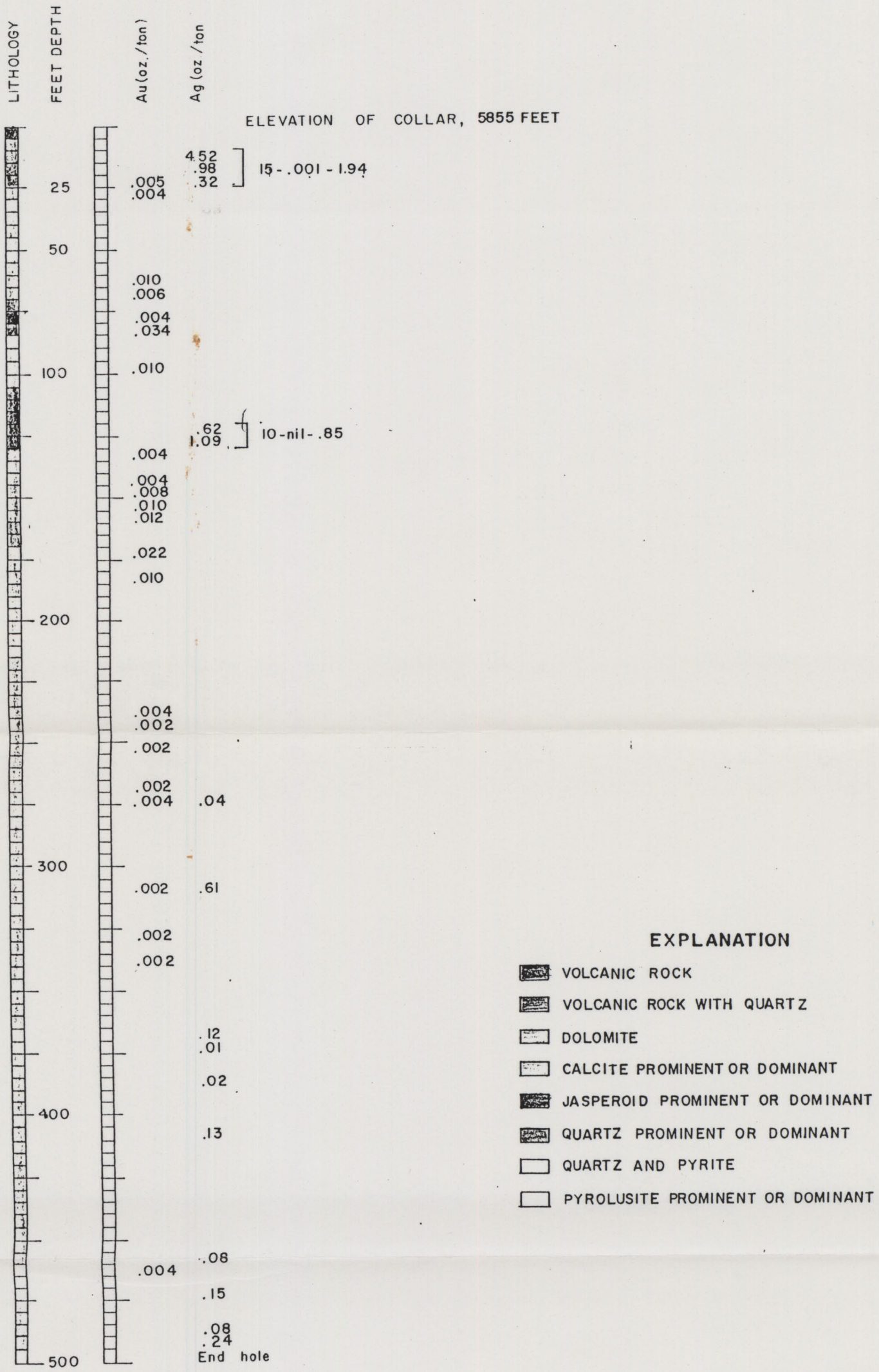


Figure 6

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 4

SILVERTON PROJECT

Nye County, Nevada

Willard Tompson and Grant Crooker

March 9, 1981

ASSAY ORDER WIDTH (H) -Au (oz./T.) -Ag (oz./T)

Scale: 1" = 50'

4440 0012

R.DH . No. 5

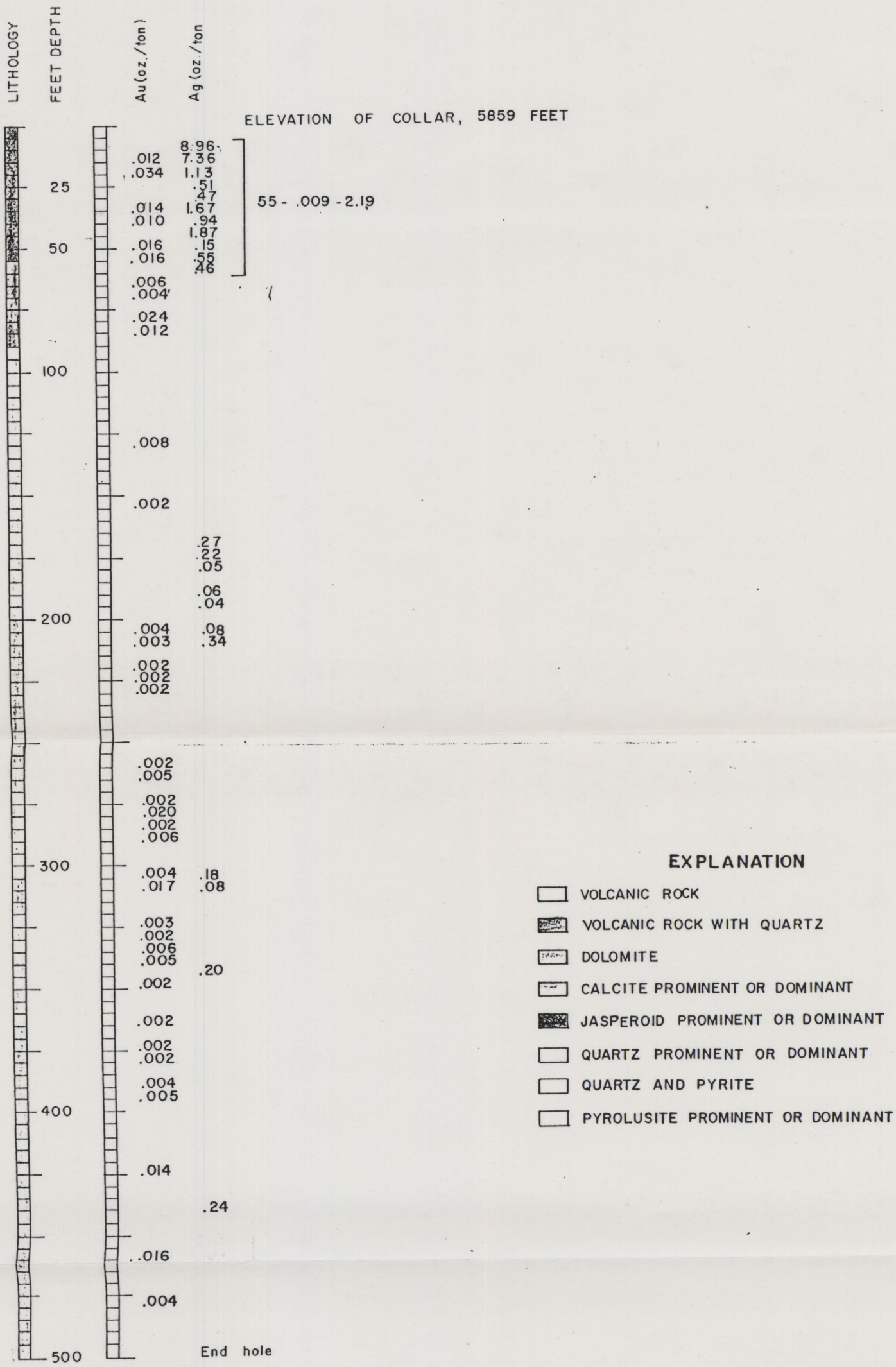


Figure 7

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 5

SILVERTON PROJECT

Nye County, Nevada

Willard Tompson and Grant Crooker

March 9, 1981

ASSAY ORDER WIDTH (H) -Au (oz./T.) -Ag (oz./T)

Scale: 1" = 50'

4440 0012.

RDH No. 6

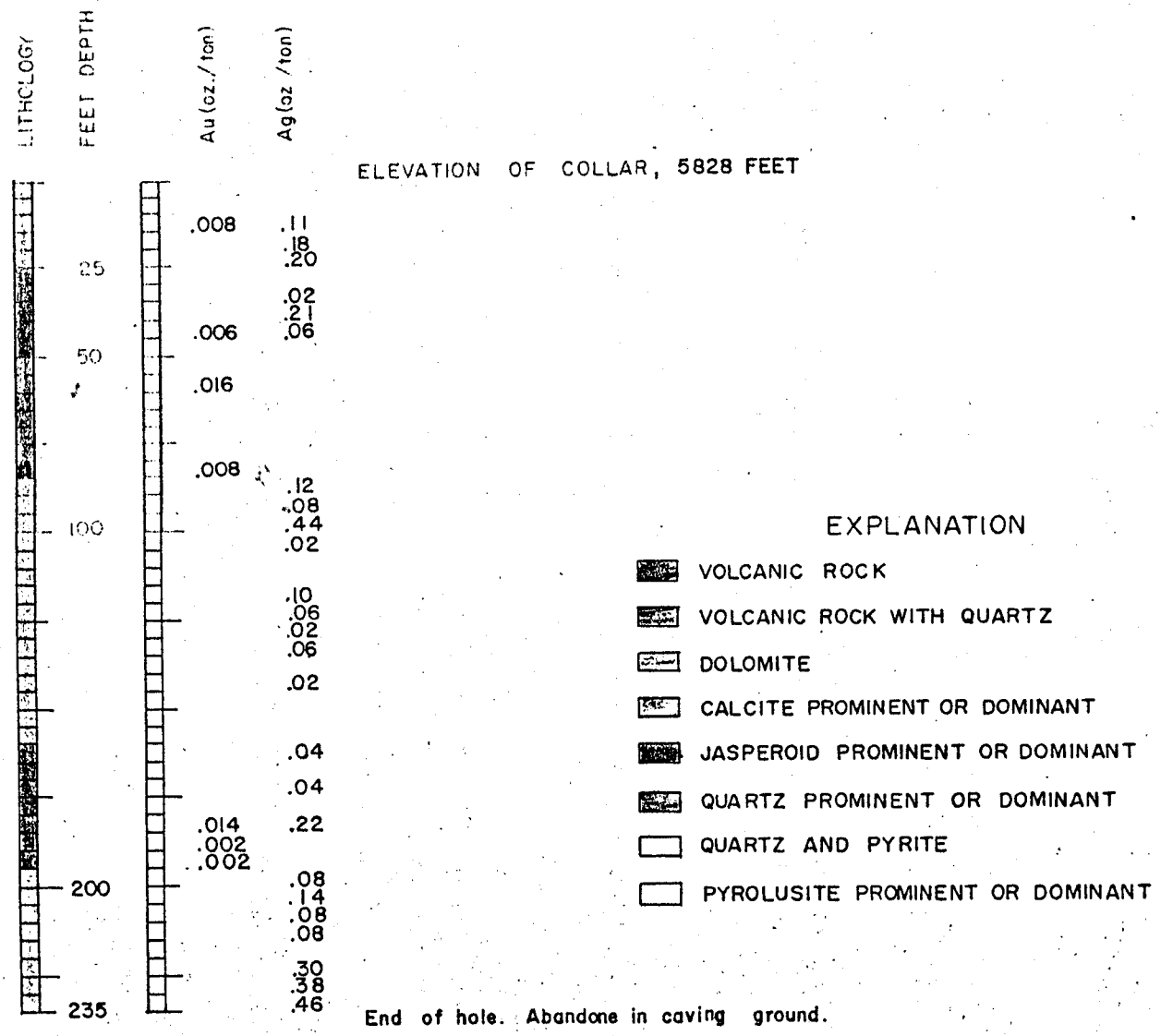


Figure 8

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 6

SILVERTON PROJECT

Nye County, Nevada

Willard D. Tompson and Grant Crooker

March 9, 1981

ASSAY ORDER; WIDTH (ft.) -Au(oz./T.) -Ag(oz./T.)

Scale: 1" = 50'

R.DH No. 7

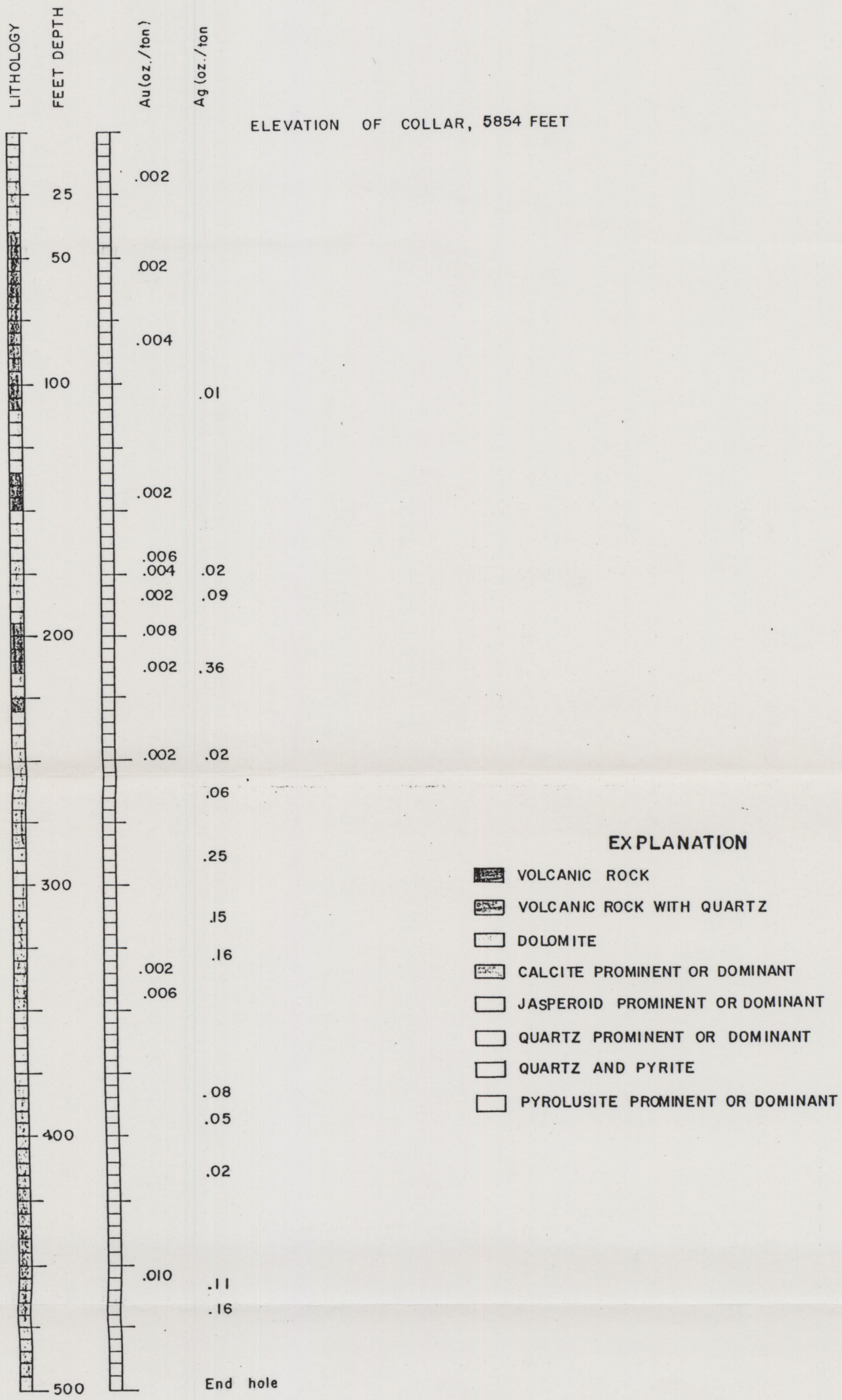


Figure 9

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 7

SILVERTON PROJECT

Nye County, Nevada

Willard Tompson and Grant Crooker

March 9, 1981

ASSAY ORDER WIDTH (H) -Au (oz./T.) -Ag (oz./T)

Scale: 1" = 50'

4440 0012

RDH No. 8

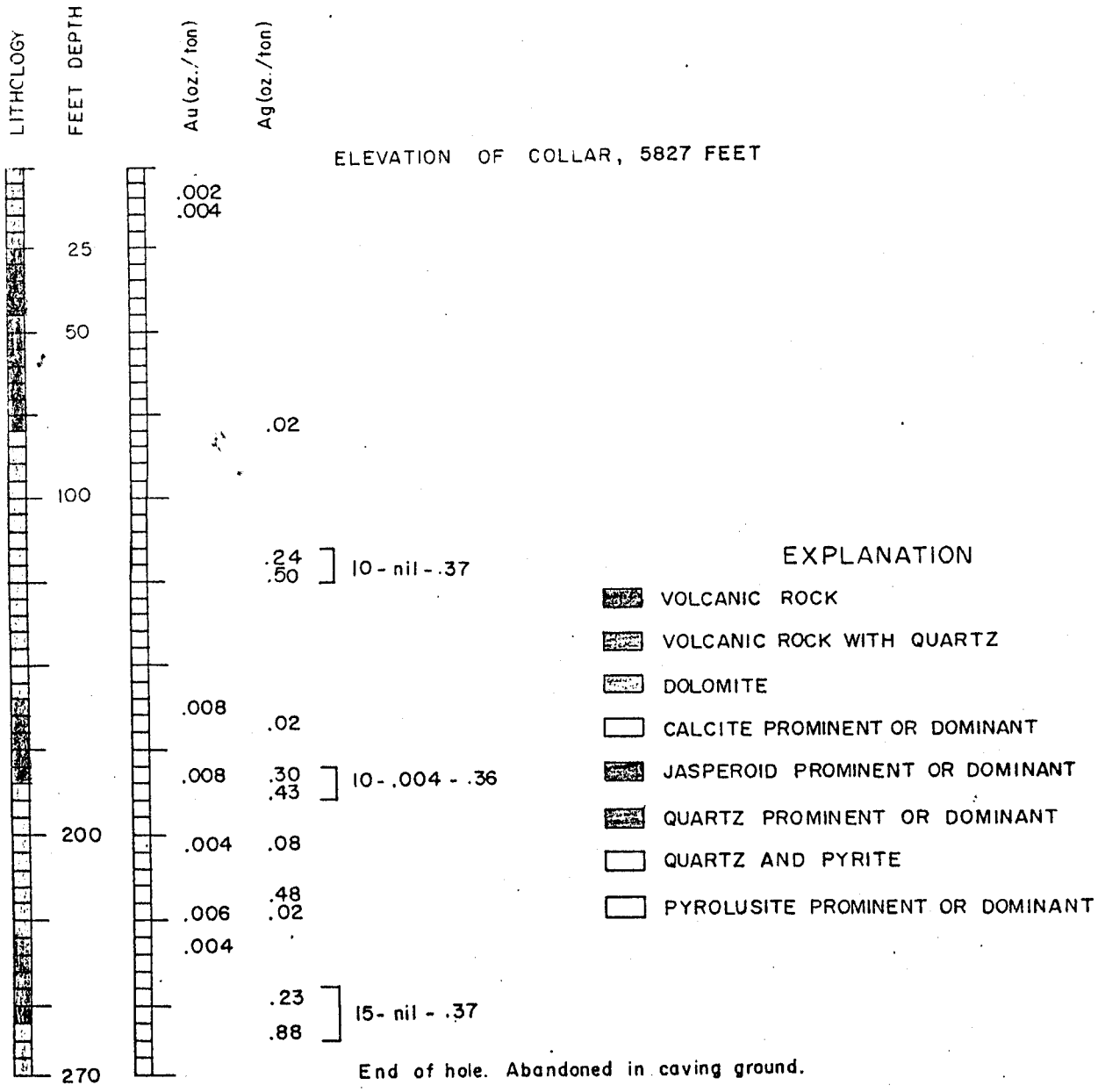


Figure 10

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 8

SILVERTON PROJECT

Nye County, Nevada

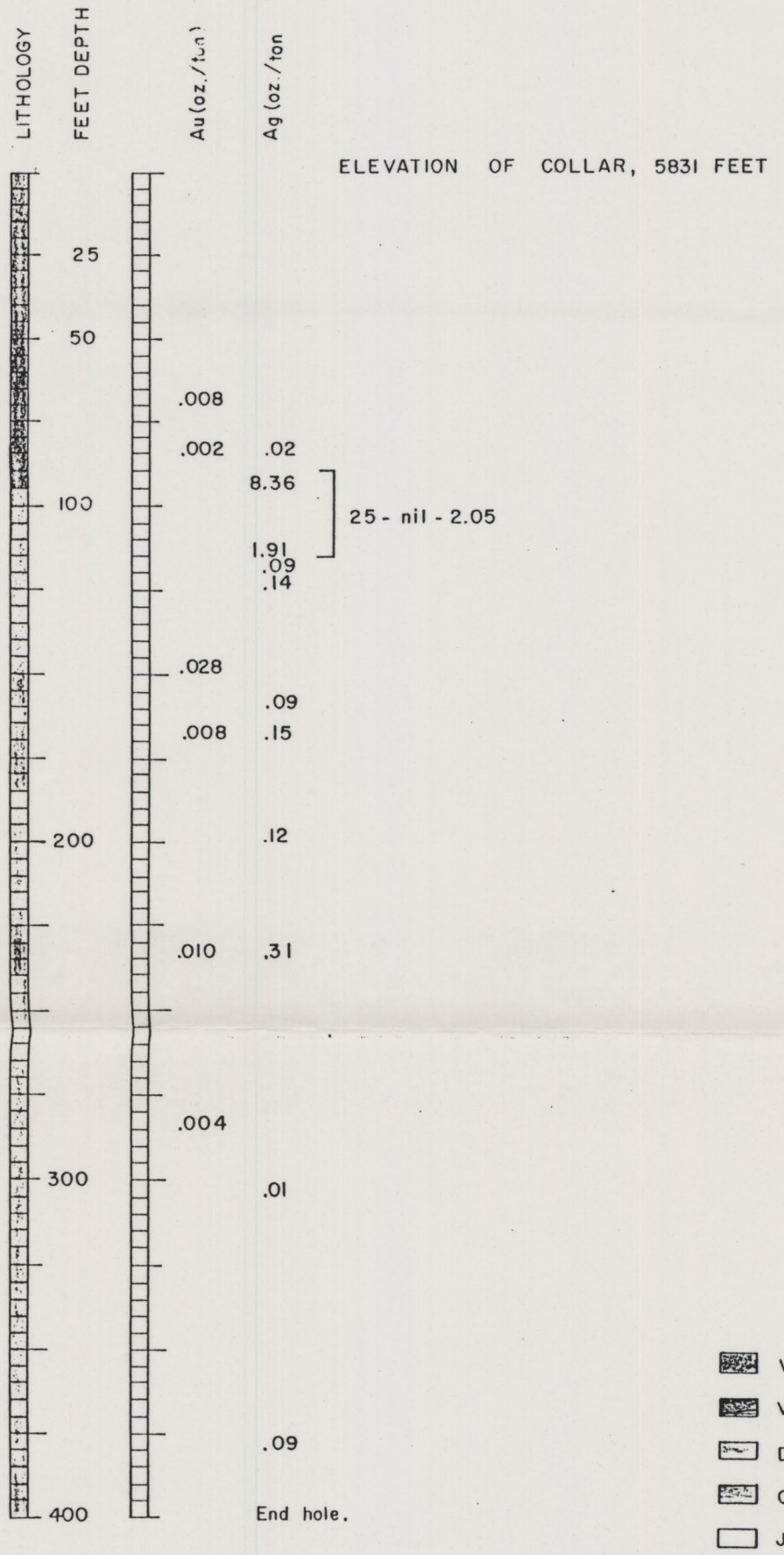
Willard D. Tompson and Grant Crooker

March 9, 1981

ASSAY ORDER; WIDTH (ft.) -Au(oz./T.) -Ag(oz./T.)

Scale: 1" = 50'

R.DH No. 9



EXPLANATION

- VOLCANIC ROCK
- VOLCANIC ROCK WITH QUARTZ
- DOLOMITE
- CALCITE PROMINENT OR DOMINANT
- JASPEROID PROMINENT OR DOMINANT
- QUARTZ PROMINENT OR DOMINANT
- QUARTZ AND PYRITE
- PYROLUSITE PROMINENT OR DOMINANT

ASSAY ORDER WIDTH(H) -Au (oz./T.) -Ag(oz./T)

Figure 11

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 9

SILVERTON PROJECT

Nye County, Nevada

Willard Tompson and Grant Crooker

March 9, 1981

Scale: 1" = 50'

4440 0012.

R.DH No. 10

ELEVATION OF COLLAR, 5810 FEET

LITHOLOGY	FEET DEPTH	Au (oz./ton)	Ag (oz./ton)	
		0.018	.09	
		tr	.42	
		0.002	.26	
	25	tr	.30	
		tr	.34	
		tr	.26	
		tr	.08	
		.012	.40	55 - .001 - 25
	50	tr	.18	
		nil	.24	
		.004	.20	
		nil	.30	
		nil	nil	
		nil	nil	
		nil	nil	
		nil	nil	
		tr	.38	
		nil	nil	
	100	nil	nil	
		nil	nil	
		nil	.42	
		nil	.10	20 - nil - .22
		nil	.24	
		tr	.12	
		nil	nil	
		nil	nil	
		tr	.30	
		tr	4.26	
		nil	.08	
		nil	nil	
		tr	.46	
		tr	nil	
		nil	.44	
		nil	.16	
		nil	.20	80 - tr - 1.07
		tr	.30	
		tr	nil	
		nil	.68	
	200	.005	8.52	25 - .001 - 2.2
		nil	.24	
		tr	.51	
		tr	1.05	
		nil	nil	
		.012	.06	
		tr	nil	
		.030	.09	
		tr	nil	
		tr	nil	
		.022	4.84	
		tr	.88	
		tr	.38	
		.146	.56	40 - .024 - 1.9
		nil	7.48	
		.020	.14	
		.004	.85	
		nil	.31	
		.022	.10	
		.012	nil	
	300	nil	nil	
		.004	.12	
		.004	nil	
		nil	.03	
		nil	nil	
		nil	.01	
		nil	.05	
		.004	.20	
		nil	.05	
		tr	nil	
		tr	.09	
		nil	.05	
		tr	.01	
		tr	.09	
		nil	.13	
		nil	nil	
		tr	.11	
		.002	.06	
		nil	.12	
		nil	.06	
	400	tr	nil	
		nil	.29	
		nil	.76	
		nil	.23	25 - nil - .38
		tr	.29	
		tr	.33	
		nil	.07	
		tr	nil	
		nil	.14	
		nil	.14	
		tr	.16	
		tr	.24	
		tr	.49	
		.014	.45	55 - .001 - .33
		nil	.45	
		nil	.29	
		.002	nil	
		.006	.38	
		.006	.93	
		.004	.03	
	500	.020	End hole nil	

EXPLANATION

- VOLCANIC ROCK
- VOLCANIC ROCK WITH QUARTZ
- DOLOMITE
- CALCITE PROMINENT OR DOMINANT
- JASPEROID PROMINENT OR DOMINANT
- QUARTZ PROMINENT OR DOMINANT
- QUARTZ AND PYRITE
- PYROLUSITE PROMINENT OR DOMINANT

Figure 12

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 10

SILVERTON PROJECT

Nye County, Nevada

Willard Tompson and Grant Crooker

March 9, 1981

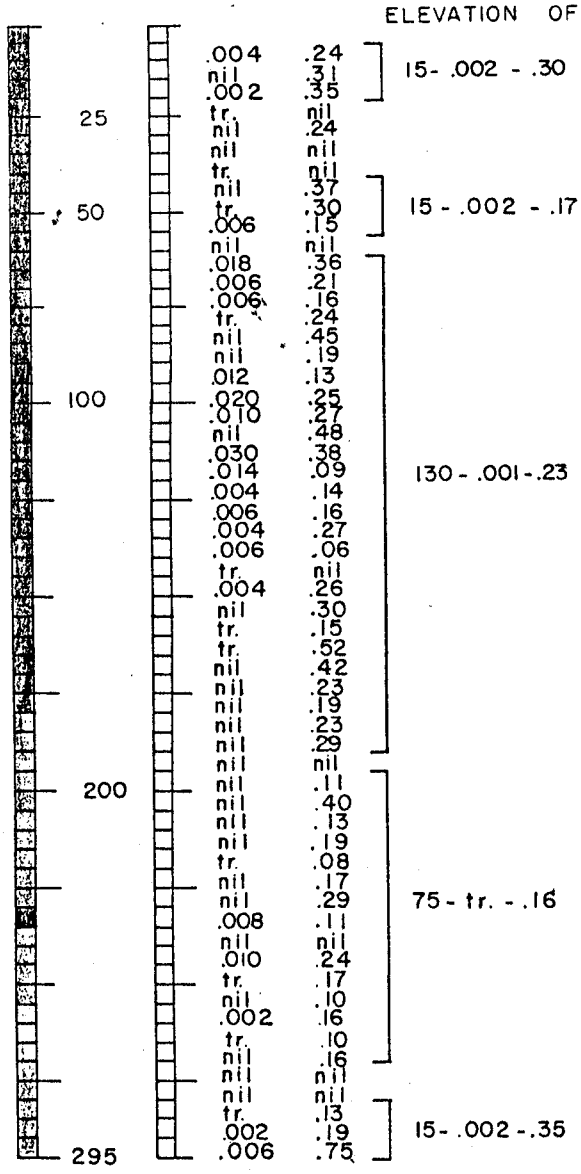
ASSAY ORDER WIDTH (H) - Au (oz./T.) - Ag (oz./T)

Scale: 1" = 50'

4440 0012

RDH No. 11

ELEVATION OF COLLAR, 5821 FEET



End of hole.
Abandoned in caving ground.

EXPLANATION

- VOLCANIC ROCK
- VOLCANIC ROCK WITH QUARTZ
- DOLOMITE
- CALCITE PROMINENT OR DOMINANT
- JASPEROID PROMINENT OR DOMINANT
- QUARTZ PROMINENT OR DOMINANT
- QUARTZ AND PYRITE
- PYROLUSITE PROMINENT OR DOMINANT

Figure 13

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 11

SILVERTON PROJECT

Nye County, Nevada

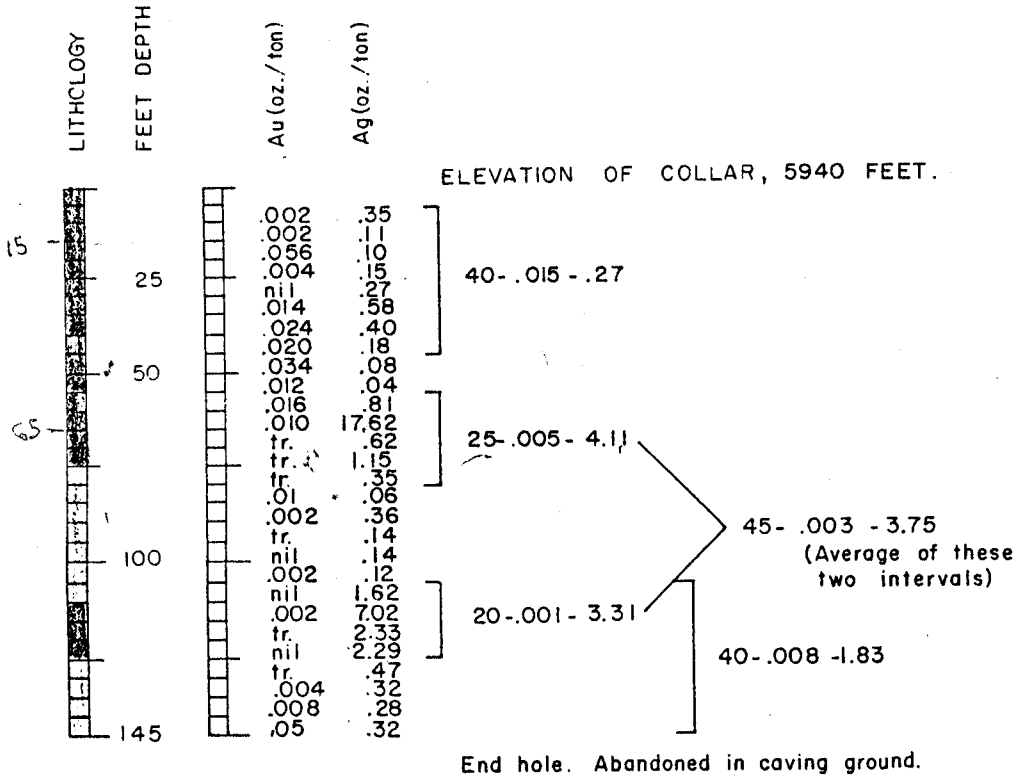
Willard D. Tompson and Grant Crooker

March 9, 1981

Scale: 1" = 50'

ASSAY ORDER; WIDTH (ft.) -Au(oz./T.) -Ag(oz./T.)

RDH No. 12



EXPLANATION

- VOLCANIC ROCK
- VOLCANIC ROCK WITH QUARTZ
- DOLOMITE
- CALCITE PROMINENT OR DOMINANT
- JASPEROID PROMINENT OR DOMINANT
- QUARTZ PROMINENT OR DOMINANT
- QUARTZ AND PYRITE
- PYROLUSITE PROMINENT OR DOMINANT

Figure 14

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 12

SILVERTON PROJECT

Nye County, Nevada

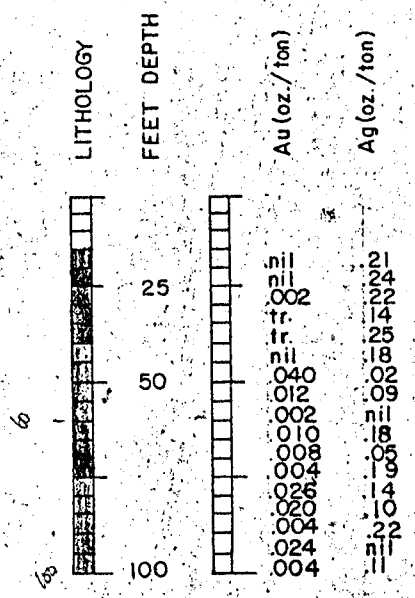
Willard D. Tompson and Grant Crooker

March 9, 1981

ASSAY ORDER; WIDTH (ft.) -Au(oz./T.) -Ag(oz./T.)

Scale: 1" = 50'

RDH No. 13



ELEVATION OF COLLAR, 5933 FEET

End hole. Abandoned in caving ground.

EXPLANATION

- VOLCANIC ROCK
- VOLCANIC ROCK WITH QUARTZ
- DOLOMITE
- CALCITE PROMINENT OR DOMINANT
- JASPEROID PROMINENT OR DOMINANT
- QUARTZ PROMINENT OR DOMINANT
- QUARTZ AND PYRITE
- PYROLUSITE PROMINENT OR DOMINANT

Figure 15

OLYMPIC MINING CORPORATION

Geological and Assay Section, Rotary Drill Hole No. 13

SILVERTON PROJECT

Nye County, Nevada

Willard D. Tompson and Grant Crooker

March 9, 1981

ASSAY ORDER; WIDTH (ft.) -Au(oz./T.) -Ag(oz./T.)

Scale: 1" = 50'

Descriptive Log

Rotary Drill Hole 81 - 1

Date Collared, January 16, 1981

Feet Depth	Description
0 - 5	Rusty brown, altered volcanic rock with gypsum
5 - 10	Rusty brown, altered volcanic rock with gypsum
10 - 15	Rusty brown, altered volcanic rock with gypsum and quartz
15 - 20	Rusty brown, altered volcanic rock
20 - 25	Rusty brown, altered volcanic rock with gypsum flecks of soft, reddish metallic mineral
25 - 30	Rusty brown, altered volcanic rock with gypsum and glassy quartz
30 - 35	Rusty brown, gypsum in altered volcanic rock
35 - 40	Yellowish white altered volcanic rock with quartz
40 - 45	Yellowish white altered volcanic rock
45 - 50	Yellowish white altered volcanic rock with gypsum
50 - 55	Yellowish white altered volcanic rock
55 - 60	Yellowish white altered volcanic rock with gypsum and quartz
60 - 65	Yellowish white altered volcanic rock with pinkish dolomite
65 - 70	Yellowish white altered volcanic rock with grey-brown dolomite
70 - 75	Grey-brown dolomite
75 - 80	Black dolomite fragments in grey-brown dolomite
80 - 85	White calcite, black dolomite and fragments in grey-brown dolomite
90 - 95	No sample
95 - 100	Reddish flecks, sulfides (?), grey-brown dolomite
100 - 105	Grey-brown dolomite with quartz
105 - 110	Grey-brown dolomite
110 - 115	Grey-brown dolomite
115 - 120	Grey-brown dolomite
120 - 125	Grey-brown dolomite and quartz
125 - 130	Grey dolomite
130 - 135	Grey dolomite and pick dolomite
135- 140	Grey dolomite
140 - 145	Grey dolomite
145 - 150	Grey dolomite
150 - 155	Grey dolomite and some pink dolomite
155 - 160	Grey dolomite
160 - 165	Grey dolomite
165 - 170	Grey dolomite
170 - 175	Grey dolomite
175 - 180	Grey dolomite
180 - 185	Grey dolomite
185 - 190	Grey dolomite
190 - 195	Grey dolomite
195 - 200	Grey dolomite
200 - 205	Grey-brown dolomite
205 - 210	Grey-brown dolomite
210 - 215	Grey-brown dolomite
215 - 220	Grey-brown dolomite
220 - 225	Grey-brown dolomite
225 - 230	Grey-brown dolomite
230 - 235	Grey dolomite
235 - 240	Grey dolomite

..cont. Rotary Drill Hole 81 - 1

Feet Depth	Description
240 - 245	Grey dolomite
245 - 250	Grey-brown dolomite
250 - 255	Grey-brown dolomite
255 - 260	Grey dolomite
260 - 265	Grey dolomite with calcite
265 - 270	Grey dolomite
270 - 275	Grey dolomite
275 - 280	Grey dolomite
280 - 285	Grey dolomite
285 - 290	Grey dolomite
290 - 295	Grey dolomite with quartz
295 - 300	Grey dolomite
300 - 305	Grey dolomite
305 - 310	Grey dolomite
310 - 315	Grey dolomite
315 - 320	Grey dolomite
320 - 325	Grey dolomite
325 - 330	Grey dolomite
330 - 335	Grey dolomite
335 - 340	Grey-brown dolomite
345 - 350	Grey dolomite
350 - 355	Grey dolomite
355 - 360	Grey dolomite
360 - 365	Grey dolomite
365 - 370	Grey dolomite
370 - 375	Grey dolomite
375 - 380	Grey dolomite
380 - 385	Grey dolomite
385 - 390	Grey dolomite
390 - 395	Grey dolomite
395 - 400	Grey dolomite
400 - 405	Grey dolomite
405 - 410	Grey dolomite
410 - 415	Grey dolomite
415 - 420	Grey dolomite
420 - 425	Grey dolomite
425 - 430	Grey dolomite
430 - 435	Grey dolomite
435 - 440	Grey dolomite
445 - 450	Grey dolomite
450 - 455	Grey dolomite
455 - 460	Grey dolomite
460 - 465	Grey dolomite
465 - 470	Grey dolomite
470 - 475	Grey dolomite
475 - 480	Grey dolomite
480 - 485	Grey dolomite
485 - 490	Grey dolomite
490 - 495	Grey dolomite
495 - 500	Grey dolomite

Descriptive Log

Rotary Drill Hole 81 - 2

Date Collared, January 19, 1981

Feet Depth	Description
0 - 5	Grey altered volcanic rock, kaolinized
5 - 10	Grey altered volcanic rock, kaolinized
10 - 15	Rusty pink altered volcanic rock, kaolinized
15 - 20	Rusty brown, altered volcanic rock, quartz
20 - 25	Rusty brown, altered volcanic rock
25 - 30	Rusty brown, altered volcanic rock
30 - 35	Rusty brown, altered volcanic rock
35 - 40	Rusty brown, altered volcanic rock, quartz
40 - 45	Grey dolomite
45 - 50	Grey brown dolomite, quartz
50 - 55	Grey brown dolomite
55 - 60	Grey brown dolomite
60 - 65	Grey brown dolomite
65 - 70	Grey brown dolomite
70 - 75	Grey brown dolomite
75 - 80	No sample
80 - 85	Grey brown dolomite
85 - 90	Grey brown dolomite
90 - 95	Grey dolomite
95 - 100	Grey dolomite
100 - 105	Grey dolomite
105 - 110	Grey dolomite, some quartz
110 - 115	Grey dolomite
115 - 120	Grey dolomite, minor limonite
120 - 125	Grey dolomite
125 - 130	Grey dolomite
130 - 135	Grey dolomite
135 - 140	Grey dolomite
140 - 145	Grey dolomite
145 - 150	Grey dolomite
150 - 155	Grey dolomite
155 - 160	Grey dolomite
160 - 165	Grey dolomite
165 - 170	Grey brown dolomite
170 - 175	Grey brown dolomite
175 - 180	Grey dolomite
180 - 185	Grey brown dolomite
185 - 190	Grey dolomite
190 - 195	Grey dolomite
195 - 200	Grey dolomite
200 - 205	Grey dolomite, several chips have pinkish tinge
205 - 210	Grey dolomite, some chips have pinkish tinge
210 - 215	Grey dolomite
215 - 220	Grey dolomite
220 - 225	Grey dolomite
225 - 230	Grey dolomite
230 - 235	Grey dolomite
235 - 240	Grey dolomite

..cont.

Rotary Dill Hole 81 - 2

Feet Depth	Description
240 - 245	Grey dolomite, calcite
245 - 250	Grey dolomite
250 - 255	Grey dolomite
255 - 260	Grey dolomite
260 - 265	Grey dolomite
265 - 270	Grey dolomite, calcite
270 - 275	Grey dolomite, abundant calcite
275 - 280	Grey dolomite, abundant calcite
280 - 285	Grey dolomite, abundant calcite
285 - 290	Grey dolomite, abundant calcite
290 - 295	Grey dolomite, abundant calcite
295 - 300	Grey dolomite, abundant calcite
300 - 305	Grey brown dolomite
305 - 310	Grey dolomite
310 - 315	Grey dolomite
315 - 320	Grey dolomite
320 - 325	Grey dolomite, abundant calcite
325 - 330	Grey dolomite, abundant calcite
330 - 335	Grey dolomite
335- 340	Grey dolomite
340 - 345	Grey dolomite
345 - 350	Grey dolomite
350 - 355	Grey dolomite, several calcite chips
355 - 360	Grey dolomite
360 - 365	Grey dolomite
365 - 370	Grey dolomite
370 - 375	Grey dolomite
375 - 380	Grey dolomite
380 - 385	Grey dolomite
385 - 390	Grey dolomite
390- 395	Grey dolomite
395 - 400	Grey dolomite
400 - 405	Grey dolomite
405 - 410	Grey dolomite, with calcite
410 - 415	Grey dolomite, with calcite
415 - 420	Grey dolomite
420 - 425	Grey dolomite
425 - 430	Grey dolomite
430 - 435	Grey dolomite, with calcite
435 - 440	Grey dolomite
440 - 445	Grey dolomite
445 - 450	Grey dolomite
450 - 455	Grey dolomite
455 - 460	Grey dolomite
460 - 465	Grey dolomite
465 - 470	Grey dolomite
470 - 475	Grey dolomite
475 - 480	Grey dolomite
480 - 485	Grey-brown dolomite
485 - 490	Grey dolomite
490 - 495	Grey dolomite
495 - 500	No sample

Descriptive Log

Rotary Drill Hole 81 - 3

Date Collared , January 22, 1981

Feet Depth	Description
0 - 5	Rusty brown altered volcanic rock with calcite (?)
5 - 10	Rusty brown altered volcanic rock with quartz
10 - 15	Rusty brown altered volcanic rock with quartz and kaolin (?)
15 - 20	Brown altered volcanic rock
20 - 25	Brown altered volcanic rock
25 - 30	Brown altered volcanic rock with gypsum and quartz
30 - 35	Rusty brown, altered volcanic rock with quartz
35 - 40	Brown altered volcanic rock
40 - 45	Brown altered volcanic rock
45 - 50	Brown altered volcanic rock
50 - 55	Brown altered volcanic rock
55 - 60	Rusty brown, altered volcanic rock
60 - 65	Brown altered volcanic rock
65 - 70	Brown altered volcanic rock
70 - 75	Brown altered volcanic rock
75 - 80	Brown altered volcanic rock
80 - 85	Brown altered volcanic rock
85 - 90	Rusty brown altered volcanic rock
90 - 95	Grey dolomite with jasperoid (?)
95 - 100	Grey dolomite
100 - 105	Grey dolomite
105 - 110	Grey dolomite
110 - 115	Grey dolomite with quartz
115 - 120	Grey dolomite
120 - 125	Grey dolomite
125 - 130	Grey dolomite
130 - 135	Grey dolomite
135 - 140	Grey dolomite
140 - 145	Grey dolomite with calcite
145 - 150	Grey dolomite with calcite and pink dolomite
150 - 155	Grey dolomite with abundant calcite
155 - 160	Grey dolomite with abundant calcite
160 - 165	White calcite
165 - 170	White calcite
170 - 175	White calcite with grey dolomite
175 - 180	White calcite with grey dolomite
180 - 185	White calcite with grey dolomite
185 - 190	Grey dolomite and altered volcanic (?)
190 - 195	Grey dolomite calcite
195 - 200	Grey dolomite
200 - 205	Grey dolomite
205 - 210	Grey dolomite
210 - 215	Grey dolomite
215 - 220	Grey dolomite
220 - 225	Grey dolomite
225- 230	Grey dolomite with hematite (?)
230 - 235	Grey dolomite
235 - 240	Grey dolomite

..cont. Rotary Drill Hole 81 -3

Feet Depth	Description
240 - 245	Grey dolomite with calcite
245 - 250	Grey dolomite with calcite
250 - 255	Grey dolomite with abundant calcite
255 - 260	Grey dolomite with calcite
260 - 265	Grey dolomite with calcite
265 - 270	Grey dolomite with calcite
270 - 275	Grey dolomite with abundant calcite
275 - 280	Calcite, white
280 - 285	Calcite, white
285 - 290	Pinkish dolomite with abundant calcite
290 - 295	Grey dolomite with abundant calcite
295 - 300	Grey dolomite with abundant calcite
300 - 305	Grey dolomite with calcite
305 - 310	Grey dolomite with pink dolomite
310 - 315	Grey dolomite with calcite
315 - 320	Grey dolomite with calcite
320 - 325	Grey dolomite with calcite
325 - 330	Grey dolomite
330 - 335	Grey dolomite
335 - 340	Grey dolomite with calcite
340 - 345	Grey dolomite
345 - 350	Grey dolomite with pink dolomite
350 - 355	Grey dolomite with calcite
355- 360	Grey dolomite
360 - 365	Grey dolomite
365 - 370	Grey dolomite with calcite and pink dolomite
370 - 375	Grey dolomite
375 - 380	Grey dolomite
380 - 385	Grey dolomite with calcite
385 - 390	Grey dolomite with pink dolomite
390 - 395	Grey dolomite
395 - 400	Grey dolomite
400 - 405	Grey dolomite with calcite
405 - 410	Grey dolomite with abundant calcite
410 - 415	Grey dolomite with calcite
415 - 420	Grey dolomite with calcite
420 - 425	White calcite
425 - 430	Grey dolomite with calcite
430 - 435	Grey dolomite with calcite
435 - 440	Grey dolomite with calcite
440 - 445	Grey dolomite with calcite
445 - 450	White calcite and grey dolomite
450 - 455	Grey dolomite with abundant calcite
455 - 460	Grey dolomite with calcite
460 - 465	Grey dolomite with calcite
465 - 470	White calcite
470 - 475	White calcite
475 - 480	Grey dolomite with abundant calcite
480 - 485	Grey dolomite with abundant calcite
485 - 490	White calcite
490 - 495	Grey dolomite with calcite
495 - 500	Grey dolomite with calcite

Descriptive Log

Rotary Drill Hole 81 - 4

Date Collared, January 24, 1981

Feet Depth	Description
0 - 5	Grey altered volcanic rock, kaolinized
5 - 10	Rusty-brown altered volcanic rock with jasperoid (?) and quartz
10 - 15	Rusty-brown altered volcanic rock with jasperoid (?) and quartz
15 - 20	Grey altered volcanic rock, kaolinized (?)
20 - 25	Grey altered volcanic rock with quartz
25 - 30	Grey dolomite
30 - 35	Grey dolomite
35 - 40	Grey dolomite
40 - 45	Grey dolomite
45 - 50	Grey dolomite with quartz
50 - 55	Grey dolomite
55 - 60	Grey dolomite with quartz
60 - 65	Grey dolomite
65 - 70	Rusty-brown altered volcanic rock
70 - 75	Rusty-brown altered volcanic rock with quartz
75 - 80	Rusty-brown altered volcanic rock
80 - 85	Rusty-brown altered volcanic rock with quartz
85 - 90	Rusty-brown altered volcanic rock
90 - 95	Grey dolomite
95 - 100	Grey dolomite
100 - 105	Grey dolomite with quartz
105 - 110	Grey dolomite and jasperoid (?)
110 - 115	Grey dolomite and jasperoid
115 - 120	Grey dolomite and jasperoid
120 - 125	Grey dolomite and jasperoid
125 - 130	Grey dolomite and jasperoid
130 - 135	Grey dolomite
135 - 140	Grey dolomite with quartz
140 - 145	Grey dolomite
145 - 150	White calcite
150 - 155	Grey-brown dolomite
155 - 160	Grey dolomite with quartz
160 - 165	Grey dolomite with quartz
165 - 170	Grey dolomite with quartz
170 - 175	Grey dolomite
175 - 180	Grey dolomite
180 - 185	Grey dolomite
185 - 190	Grey dolomite
190 - 195	Grey dolomite
195 - 200	Grey dolomite
200 - 205	Grey dolomite
205 - 210	Grey dolomite
210 - 215	Grey dolomite
215 - 220	White calcite
220 - 225	Grey dolomite with calcite
225 - 230	Grey dolomite
230 - 235	Grey dolomite
235 - 240	Grey dolomite
240 - 245	Grey dolomite

..cont. Rotary Drill Hole 81 - 4

Feet Depth	Description
245 - 250	Grey dolomite
250 - 255	Grey dolomite
255 - 260	Grey dolomite
260 - 265	Grey dolomite
265 - 270	Grey dolomite and pink dolomite
270 - 275	Grey dolomite
275 - 280	Grey dolomite
280 - 285	Grey dolomite
285 - 290	Grey dolomite
290 - 295	Grey dolomite
295 - 300	Grey dolomite
300 - 305	Grey dolomite
205 - 310	Grey dolomite
310 - 315	Grey dolomite
315 - 320	Grey dolomite with calcite
320 - 325	Grey dolomite with calcite
325 - 330	White calcite
330 - 335	Grey dolomite with calcite
335 - 340	Grey dolomite
340 - 345	Grey dolomite with calcite
345 - 350	Grey dolomite
350 - 355	Grey dolomite
355 - 360	Grey dolomite with calcite
360 - 365	Grey dolomite
365 - 370	Grey dolomite with calcite
370 - 375	Grey dolomite with calcite
375 - 380	Grey dolomite with calcite
380 - 385	Grey dolomite with calcite
385 - 390	Grey dolomite with calcite
390 - 395	Grey dolomite with calcite
395 - 400	Grey dolomite with calcite
400 - 405	Grey dolomite with calcite
405 - 410	Grey dolomite with calcite
410 - 415	Grey dolomite with calcite
415 - 420	Grey dolomite with calcite
420 - 425	Grey dolomite with calcite
425 - 430	Grey dolomite with calcite
430 - 435	Grey dolomite with calcite
435 - 440	Grey dolomite with calcite
440 - 445	Grey dolomite
445 - 450	Grey dolomite
450 - 455	Grey dolomite with calcite
455 - 460	Grey dolomite with calcite
460 - 465	Grey dolomite with calcite
465 - 470	Grey dolomite with calcite
470 - 475	Grey dolomite with calcite
475 - 480	Grey dolomite with calcite
480 - 485	Grey dolomite with calcite
485 - 490	Grey dolomite with calcite
490 - 495	Grey dolomite with calcite
495 - 500	Grey dolomite with calcite

Descriptive Log

Rotary Drill Hole 81 - 5

Date Collared, January 29, 1981

Feet Depth	Description
0 - 5	Glassy quartz with grey-black jasperoid. Minor rusty brown altered volcanic rock
5 - 10	Glassy quartz with grey-black jasperoid. Minor rusty brown altered Volcanic rock
10 - 15	Glassy quartz with jasperoid
15 - 20	Glassy quartz and grey-black jasperoid
20 - 25	Glassy quartz and grey-black jasperoid
25 - 30	Grey-black jasperoid
30 - 35	Grey-black jasperoid with calcite
35 - 40	Grey-black jasperoid
40 - 45	Grey-black jasperoid and glassy quartz
45 - 50	Grey-black jasperoid
50 - 55	Grey-black jasperoid. Minor rusty brown altered volcanic rock
55 - 60	Rusty brown altered volcanic rock with glassy quartz
60 - 65	Rusty brown altered volcanic rock with glassy quartz
65 - 70	Rusty brown altered volcanic rock with glassy quartz
70 - 75	Rusty brown altered volcanic rock with glassy quartz
75 - 80	Grey dolomite
80 - 85	Rusty brown altered volcanic rock with minor glassy quartz
85 - 90	Rusty brown altered volcanic rock with minor glassy quartz
90 - 95	Rusty brown altered volcanic rock and grey dolomite
95 - 100	Grey dolomite
100 - 105	Grey dolomite
105 - 110	Grey dolomite
110 - 115	Grey dolomite
115 - 120	Brown dolomite
120 - 125	Brown dolomite
125 - 130	Grey-brown dolomite
130 - 135	Grey dolomite
135 - 140	Grey dolomite with calcite
140 - 145	Grey dolomite with calcite
145 - 150	Grey dolomite with calcite
150 - 155	Grey dolomite with calcite
155 - 160	Grey dolomite with calcite
160 - 165	Grey dolomite with calcite
165 - 170	Grey dolomite with calcite
170 - 175	Grey dolomite with calcite
175 - 180	Grey dolomite with calcite
180 - 185	Grey dolomite with abundant calcite
185 - 190	White calcite
190 - 195	White calcite
195 - 200	White calcite
200 - 205	White calcite in grey dolomite
205 - 210	White calcite in grey dolomite
210 - 215	Grey dolomite with abundant calcite
215 - 220	Grey dolomite with abundant calcite
220 - 225	White calcite
225 - 230	Grey dolomite with abundant calcite
230 - 235	Grey dolomite with abundant calcite
235 - 240	White calcite

..cont. Rotary Drill Hole 81 - 5

Feet Depth	Description
240 - 245	White calcite in grey dolomite
245 - 250	Grey dolomite
250 - 255	Grey dolomite with calcite
255 - 260	Grey dolomite with calcite
260 - 265	Grey dolomite
265 - 270	Grey dolomite
270 - 275	Grey dolomite with calcite
275 - 280	White calcite
280 - 285	White calcite in grey dolomite
285 - 290	Grey dolomite with calcite
290 - 295	Grey dolomite
295 - 300	Grey dolomite with calcite
300 - 305	Grey dolomite with calcite
305 - 310	Grey dolomite with calcite
310 - 315	Grey dolomite with calcite
315 - 320	Grey dolomite with calcite and some pink dolomite
320 - 325	Grey dolomite with calcite
325 - 330	Grey dolomite with calcite
330 - 335	Grey dolomite with calcite
335 - 340	Grey dolomite with calcite
340 - 345	Grey dolomite with calcite
345 - 350	Grey dolomite
350 - 355	Grey dolomite
355 - 360	Grey dolomite
360 - 365	Grey-brown dolomite
365 - 370	Grey dolomite
370 - 375	Grey dolomite with calcite
375 - 380	Grey dolomite
380 - 385	Grey dolomite
385 - 390	Grey dolomite with calcite
390 - 395	Grey dolomite with calcite
395 - 400	Grey dolomite with calcite
400 - 405	Grey dolomite
405 - 410	Grey dolomite
410 - 415	Grey dolomite with calcite
415 - 420	Grey dolomite with calcite
420 - 425	Grey dolomite with calcite
425 - 430	Grey dolomite with calcite
430 - 435	Grey dolomite with calcite
435 - 440	Grey dolomite with pink dolomite
440 - 445	Grey-brown dolomite
445 - 450	Grey-brown dolomite
450 - 455	Grey-brown dolomite
455 - 460	Grey dolomite
460 - 465	Grey dolomite with calcite
465 - 470	Grey dolomite
470 - 475	Grey dolomite
475 - 480	Grey dolomite
480 - 485	Grey dolomite
485 - 490	Grey dolomite with calcite
490 - 495	Grey dolomite with calcite
495 - 500	Grey dolomite with calcite

Descriptive Log

Rotary Drill Hole 81 - 6

Date Collared February 2, 1981

Feet Depth	Description
0 - 5	Grey dolomite with calcite and glassy quartz
5 - 10	Grey dolomite
10 - 15	Grey dolomite with glassy quartz
15 - 20	Grey dolomite with calcite and quartz
20 - 25	Grey dolomite with calcite
25 - 30	Buff white altered volcanic rock, kaolinitic (?)
30 - 35	Yellowish white altered volcanic rock, kaolinitic, with glassy quartz
35 - 40	Yellowish white altered volcanic rock
40 - 45	Yellowish white altered volcanic rock
45 - 50	Yellowish white altered volcanic rock
50 - 55	Rusty brown altered volcanic rock with glassy quartz
55 - 60	Rusty brown altered volcanic rock with glassy quartz
60 - 65	Rusty brown altered volcanic rock with glassy quartz
65 - 70	Rusty brown altered volcanic rock with glassy quartz
70 - 75	Rusty brown altered volcanic rock with glassy quartz
75 - 80	Rusty brown altered volcanic rock with glassy quartz
80 - 85	Rusty brown altered volcanic, kaolinitic (?)
85 - 90	Grey dolomite
90 - 95	Grey dolomite
95 - 100	Grey dolomite
100 - 105	Grey dolomite with calcite
105 - 110	Grey dolomite with calcite
110 - 115	Grey dolomite with calcite
115 - 120	Grey dolomite with calcite
120 - 125	Grey dolomite with calcite
125 - 130	Grey dolomite
130 - 135	Grey dolomite with calcite
135 - 140	Grey dolomite with calcite
140 - 145	White calcite
145 - 150	White calcite
150 - 155	White calcite
155 - 160	Grey dolomite with calcite
160 - 165	Grey dolomite
165 - 170	Grey dolomite
170 - 175	Rusty brown altered volcanic (?) with glassy quartz
175 - 180	Rusty brown altered volcanic rock
180 - 185	Rusty brown altered volcanic rock and grey jasperoid
185 - 190	Grey jasperoid
190 - 195	Rusty brown altered volcanic (?), kaolinite (?)
195 - 200	Grey brown dolomite
200 - 205	Grey brown dolomite
205 - 210	Grey dolomite, calcite
210 - 215	Grey brown dolomite, calcite
215 - 220	Grey brown dolomite, calcite
220 - 225	Grey brown dolomite
225 - 230	Grey brown dolomite, kaolinitic (?)
230 - 235	Grey brown dolomite, limonite on fractures

Descriptive Log

Rotary Drill Hole 81 - 7

Date Collared February 4, 1981

Feet Depth	Description
0 - 5	Brown dolomite
5 - 10	Brown dolomite
10 - 15	Brown dolomite
15 - 20	Brown dolomite
20 - 25	Brown dolomite
25 - 30	Brown dolomite
30 - 35	Brown dolomite
35 - 40	Brown dolomite
40 - 45	Yellowish white altered volcanic (?) rock with glassy quartz
45 - 50	Yellowish white altered volcanic (?) rock with glassy quartz
50 - 55	Yellowish white altered volcanic (?) rock with glassy quartz
55 - 60	Yellowish white altered volcanic (?) rock with glassy quartz
60 - 65	Yellowish white altered volcanic (?) rock with glassy quartz
65 - 70	Yellowish white altered volcanic (?) rock with glassy quartz
70 - 75	Yellowish white altered volcanic (?) rock with glassy quartz
75 - 80	Yellowish white altered volcanic (?) rock with glassy quartz
80 - 85	Yellowish white altered volcanic (?) rock with glassy quartz
85 - 90	Yellowish white altered volcanic (?) rock with glassy quartz
90 - 95	White altered volcanic (?) rock with glassy quartz
95 - 100	White altered volcanic (?) rock
100 - 105	Buff white altered volcanic (?) rock with glassy quartz and gypsum
105 - 110	Rusty brown altered volcanic (?) rock with glassy quartz
110 - 115	Grey brown dolomite
115 - 120	Grey brown dolomite
120 - 125	Grey brown dolomite
125 - 130	Buff-white dolomite
130 - 135	Grey dolomite with calcite
135 - 140	White altered volcanic (?) rock
140 - 145	White altered volcanic (?) rock
145 - 150	White altered volcanic (?) rock
150 - 155	Grey dolomite with calcite
155 - 160	Grey dolomite with calcite
160 - 165	Grey dolomite with calcite
165 - 170	Grey dolomite with calcite
170 - 175	Brown dolomite
175 - 180	Brown dolomite
180 - 185	Grey dolomite
185 - 190	Grey dolomite
190 - 195	Grey dolomite
195 - 200	Rusty brown altered volcanic (?) rock
200 - 205	Brown altered volcanic rock
205 - 210	Brown altered volcanic rock
210 - 215	Brown altered volcanic rock
215 - 220	Grey dolomite
220 - 225	Grey dolomite
225 - 230	Brown altered volcanic rock
230 - 235	Grey dolomite
235 - 240	Grey dolomite

Feet Depth	Description
240 - 245	Grey dolomite
245 - 250	Grey dolomite
250 - 255	Grey dolomite with calcite
255 - 260	Grey dolomite
260 - 265	Grey dolomite
265 - 270	Grey dolomite with calcite
270 - 275	Grey dolomite
275 - 280	Grey dolomite with calcite
280 - 285	Grey dolomite with calcite
285 - 290	Grey dolomite
290 - 295	Grey dolomite
295 - 300	Grey dolomite
300 - 305	Grey dolomite with calcite
305 - 310	Grey dolomite with calcite
310 - 315	Grey dolomite with calcite
315 - 320	Grey dolomite with calcite
320 - 325	Grey dolomite with calcite
325 - 330	Grey dolomite with calcite
330 - 335	Grey dolomite with calcite
335 - 340	Grey dolomite with calcite
340 - 345	Grey dolomite with calcite
345 - 350	Grey dolomite with calcite
350 - 355	Grey dolomite
355 - 360	Grey dolomite
360 - 365	Grey dolomite
365 - 370	Grey dolomite
370 - 375	Grey dolomite
375 - 380	Grey dolomite with calcite
380 - 385	Grey dolomite with calcite
385 - 390	Grey dolomite with calcite
390 - 395	Grey dolomite with calcite
395 - 400	Grey dolomite with calcite
400 - 405	Grey dolomite with calcite
405 - 410	Grey dolomite with calcite
410 - 415	Grey dolomite with calcite
415 - 420	Grey dolomite with calcite
420 - 425	Grey dolomite with calcite
425 - 430	Grey dolomite with calcite
430 - 435	Grey dolomite with calcite
435 - 440	Grey dolomite with calcite
440 - 445	Grey dolomite with calcite
445 - 450	Grey dolomite with calcite
450 - 455	Grey dolomite with calcite
455 - 460	Grey dolomite with calcite
460 - 465	Grey dolomite
465 - 470	Grey dolomite with calcite
470 - 475	Grey dolomite
475 - 480	Grey dolomite with calcite
480 - 485	Grey dolomite with calcite
485 - 490	Grey dolomite with calcite
490 - 495	Grey dolomite with calcite
495 - 500	Grey dolomite with calcite

Descriptive Log

Rotary Drill Hole 81 - 8

Date Collared, February 5, 1981

Feet Depth	Description
0 - 5	Grey dolomite
5 - 10	Grey dolomite with calcite
10 - 15	Grey dolomite
15 - 20	Grey dolomite with calcite
20 - 25	Grey dolomite with fragments of altered volcanic rock
25 - 30	Grey dolomite and white, altered volcanic rock
30 - 35	Rusty brown altered volcanic rock with jasperoid and grey dolomite
35 - 40	Rusty brown altered volcanic rock
40 - 45	Rusty brown altered volcanic rock
45 - 50	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
50 - 55	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
55 - 60	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
60 - 65	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
65 - 70	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
70 - 75	Rusty brown altered volcanic rock with glassy quartz
75 - 80	Rusty brown altered volcanic rock with glassy quartz
80 - 85	Grey dolomite
85 - 90	Grey dolomite
90 - 95	Grey dolomite
95 - 100	Grey dolomite
100 - 105	Grey dolomite
105 - 110	Grey dolomite
110 - 115	Grey dolomite
115 - 120	Grey dolomite
120 - 125	Grey dolomite
125 - 130	Grey dolomite
130 - 135	Grey dolomite
135 - 140	Grey dolomite with glassy quartz
140 - 145	Grey dolomite
145 - 150	Grey dolomite with calcite
150 - 155	Grey dolomite with calcite
155 - 160	Grey dolomite
160 - 165	Whitish, glassy quartz and jasperoid (?)
165 - 170	Rusty brown, glassy quartz and jasperoid (?)
170 - 175	Brown, glassy quartz and jasperoid (?)
175 - 180	Brown, glassy quartz and jasperoid (?)
180 - 185	Brown altered volcanic rock and grey dolomite
185 - 190	Grey dolomite
190 - 195	Grey dolomite
195 - 200	Grey dolomite
200 - 205	Grey dolomite
205 - 210	Grey dolomite
210 - 215	Grey brown dolomite
215 - 220	Grey dolomite
220 - 225	Grey dolomite
225 - 230	Grey dolomite
230 - 235	Rusty brown altered volcanic rock with glassy quartz
235 - 240	Rusty brown altered volcanic rock with glassy quartz

..cont. Rotary Drill Hole 81 - 8

Feet Depth	Description
240 - 245	Rusty brown altered volcanic rock with glassy quartz
245 - 250	Rusty brown altered volcanic rock with glassy quartz
250 - 255	Grey dolomite with jasperoid
255 - 260	Grey dolomite with calcite
260 - 265	Grey dolomite with calcite
265 - 270	Grey dolomite with calcite

Descriptive Log

Rotary Dill Hole 81 - 9

Date Collared, February 7, 1981

Feet Depth	Description
0 - 5	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
5 - 10	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
10 - 15	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
15 - 20	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
20 - 25	Rusty brown altered volcanic rock with glassy quartz and kaolinite (?)
25 - 30	Rusty brown altered volcanic rock with glassy quartz
30 - 35	Rusty brown altered volcanic rock with glassy quartz
35 - 40	Rusty brown altered volcanic rock with glassy quartz
40 - 45	Rusty brown altered volcanic rock with glassy quartz
45 - 50	Rusty brown altered volcanic rock
50 - 55	Yellowish white altered volcanic rock
55 - 60	Yellowish white altered volcanic rock
60 - 65	Yellowish white altered volcanic rock
65 - 70	Brown altered volcanic rock with glassy quartz
70 - 75	Brown altered volcanic rock with glassy quartz
75 - 80	Brown altered volcanic rock
80 - 85	Brown altered volcanic rock
85 - 90	Brown altered volcanic rock
90 - 95	Brown altered volcanic rock
95 - 100	Grey dolomite
100 - 110	Grey dolomite with calcite
110 - 115	Grey dolomite
115 - 120	Grey dolomite
120 - 125	Grey dolomite
125 - 130	Grey dolomite
130 - 135	Grey dolomite
135 - 140	Grey dolomite
140 - 145	Grey dolomite
145 - 150	Grey dolomite
150 - 155	Grey dolomite
155 - 160	Grey dolomite
160 - 165	Grey dolomite with calcite
165 - 170	Grey dolomite with calcite
170 - 175	Grey dolomite with calcite
175 - 180	Grey dolomite with calcite
180 - 185	Grey dolomite with calcite
185 - 190	Grey dolomite
190 - 195	Grey dolomite
195 - 200	Grey dolomite
200 - 205	Grey dolomite
205 - 210	Grey dolomite
210 - 215	Grey dolomite with calcite
215 - 220	Grey dolomite
220 - 225	Grey dolomite with calcite
225 - 230	Grey dolomite with calcite
230 - 235	Grey dolomite with calcite
235 - 240	Grey dolomite

.. cont. Rotary Drill Hole 81 - 9

Feet Depth	Description
240 - 245	Grey dolomite
245 - 250	Grey dolomite with calcite
250 - 255	Grey dolomite
255 - 260	Grey dolomite
260 - 265	Grey dolomite
265 - 270	Grey dolomite
270 - 275	Grey dolomite
275 - 280	Grey dolomite
280 - 285	Grey dolomite with calcite
285 - 290	Grey dolomite
290 - 295	Grey dolomite with calcite
295 - 300	Grey dolomite
300 - 305	Grey dolomite
305 - 310	Grey dolomite
310 - 315	Grey dolomite
315 - 320	Grey dolomite
320 - 325	Grey dolomite with calcite
325 - 330	Grey dolomite
330 - 335	Grey dolomite
335 - 340	Grey dolomite with calcite
340 - 345	Grey dolomite
345 - 350	Grey dolomite
350 - 355	Grey dolomite
355 - 360	Grey dolomite with calcite
360 - 365	Grey dolomite
365 - 370	Grey dolomite
370 - 375	Grey dolomite
375 - 380	Grey dolomite
380 - 385	Grey dolomite with calcite
385 - 390	Grey dolomite with calcite
390 - 395	Grey dolomite with calcite
395 - 400	Grey dolomite with calcite

Descriptive Log

Rotary Drill Hole 81 - 10

Date Collared, February 11, 1981

Feet Depth	Description
0 - 5	Rusty brown altered volcanic rock
5 - 10	Rusty brown altered volcanic rock
10 - 15	Rusty brown altered volcanic rock
15 - 20	Brown dolomite
20 - 25	Brown dolomite
25 - 30	Brown dolomite
30 - 35	Brown dolomite
35 - 40	Brown dolomite
40 - 45	Brown dolomite
45 - 50	Pinkish dolomite
50 - 55	Pinkish dolomite
55 - 60	Pinkish dolomite
60 - 65	Grey dolomite
65 - 70	Grey dolomite
70 - 75	Grey dolomite
75 - 80	Light pink dolomite
80 - 85	Light pink dolomite
85 - 90	Light pink dolomite
90 - 95	Light pink dolomite
95 - 100	Light pink dolomite
100 - 105	Light pink dolomite
105 - 110	Light brown dolomite
110 - 115	Grey brown jasperoid
115 - 120	Grey brown jasperoid
120 - 125	Grey brown jasperoid
125 - 130	White quartz (?)
130 - 135	White quartz (?) with pyrite
135 - 140	White quartz (?) with pyrite
140 - 145	Grey jasperoid
145 - 150	Dark grey quartz (?) with pyrite
150 - 155	Dark grey quartz (?) with pyrite
155 - 160	White quartz (?) with pyrite
160 - 165	White quartz (?) with pyrite
165 - 170	White quartz (?) with pyrite
170 - 175	White quartz (?) with pyrite
175 - 180	White quartz (?) with pyrite
180 - 185	White quartz (?) with pyrite
185 - 190	White quartz (?) with pyrite
190 - 195	White quartz (?) with pyrite
195 - 200	White quartz (?) with pyrite
200 - 205	White quartz (?) with pyrite
205 - 210	White quartz (?) with pyrite
210 - 215	White quartz (?) with pyrite
215 - 220	White quartz (?) with pyrite
220 - 225	White quartz (?) with pyrite
225 - 230	White quartz (?) with pyrite
230 - 235	White quartz (?) with pyrite
235 - 240	White quartz (?) with pyrite

Feet Depth	Description
240 - 245	White quartz (?) with pyrite
245 - 250	White quartz (?) with pyrite
250 - 255	White quartz (?) with pyrite
255 - 260	White quartz (?) with pyrite
260 - 265	White quartz (?) with pyrite
265 - 270	White quartz (?) with pyrite
270 - 275	White quartz (?) with pyrite
275 - 280	White quartz (?) with pyrite
280 - 285	White quartz (?) with pyrite
285 - 290	White quartz (?) with pyrite
290 - 295	White quartz (?) with pyrite
295 - 300	White quartz (?) with pyrite
300 - 305	White quartz (?) with pyrite
305 - 310	Brown to black pyrolusite with pyrite
310 - 315	Brown to black pyrolusite
315 - 320	Brown to black pyrolusite
320 - 325	Brown to black pyrolusite
325 - 330	Brown to black pyrolusite
330 - 335	Brown to black pyrolusite
335 - 340	Brown to black pyrolusite
340 - 345	Grey quartz with pyrite
345 - 350	Grey quartz with pyrite
350 - 355	Grey quartz with pyrite
355 - 360	Brown pyrolusite (?)
360 - 365	Brown pyrolusite (?)
365 - 370	Brown pyrolusite (?)
370 - 375	Brown pyrolusite (?)
375 - 380	Brown pyrolusite (?)
380 - 385	Brown pyrolusite (?)
385 - 390	Brown pyrolusite (?)
390 - 395	Brown pyrolusite (?)
395 - 400	Brown pyrolusite (?)
400 - 405	Brown pyrolusite (?)
405 - 410	Brown pyrolusite (?)
410 - 415	Brown pyrolusite (?)
415 - 420	Brown pyrolusite (?)
420 - 425	Grey dolomite
425 - 430	Grey dolomite
430 - 435	Grey dolomite
435 - 440	Grey dolomite
440 - 445	Grey dolomite
445 - 450	Grey dolomite
450 - 455	Grey dolomite
455 - 460	Grey brown jasperoid
460 - 465	Grey brown jasperoid
465 - 470	Grey dolomite
470 - 475	Grey dolomite
475 - 480	Grey dolomite
480 - 485	Grey dolomite
485 - 490	Grey dolomite
490 - 495	Grey dolomite
495 - 500	Grey dolomite

Descriptive Log

Rotary Drill Hole 81 - 11

Date Collared, February 12, 1981

Feet Depth	Description
0 - 5	No sample
5 - 10	Grey jasperoid
10 - 15	Grey jasperoid
15 - 20	Grey jasperoid and rusty brown altered volcanic rock
20 - 25	Rusty brown altered volcanic rock with glassy quartz
25 - 30	Yellowish white altered volcanic rock with quartz
30 - 35	Yellowish white altered volcanic rock with quartz
35 - 40	Rusty brown altered volcanic rock with glassy quartz
40 - 45	Yellowish white altered volcanic rock with glassy quartz
45 - 50	Yellowish white altered volcanic rock with glassy quartz
50 - 55	Yellowish white altered volcanic rock with glassy quartz
55 - 60	Yellowish white altered volcanic rock with glassy quartz
60 - 65	Rusty brown altered volcanic rock with glassy quartz
65 - 70	Rusty brown altered volcanic rock with glassy quartz
70 - 75	Rusty brown altered volcanic rock with glassy quartz
75 - 80	Rusty brown altered volcanic rock with glassy quartz
80 - 85	Yellowish white altered volcanic rock with glassy quartz
85 - 90	Yellowish white altered volcanic rock with glassy quartz
90 - 95	White quartz with fine grained rusty pyrite
95 - 100	White quartz with fine grained rusty pyrite
100 - 105	White quartz with fine grained rusty pyrite
105 - 110	White quartz with fine grained rusty pyrite
110 - 115	White quartz with fine grained rusty pyrite
115 - 120	White quartz with fine grained rusty pyrite
120 - 125	White quartz with fine grained rusty pyrite
125 - 130	White quartz with fine grained rusty pyrite
130 - 135	White quartz with fine grained rusty pyrite
135 - 140	White quartz with fine grained rusty pyrite
140 - 145	White quartz with fine grained rusty pyrite
145 - 150	White quartz with fine grained rusty pyrite
150 - 155	White quartz with fine grained rusty pyrite
155 - 160	White quartz with fine grained rusty pyrite
160 - 165	White quartz with fine grained rusty pyrite
165 - 170	White quartz with fine grained rusty pyrite
170 - 175	White quartz with fine grained rusty pyrite
175 - 180	White quartz with fine grained rusty pyrite
180 - 185	Brown dolomite
185 - 190	Brown dolomite
190 - 195	Brown dolomite
195 - 200	Brown dolomite
200 - 205	Brown dolomite
205 - 210	Brown dolomite
210 - 215	Brown dolomite
215 - 220	Brown dolomite
220 - 225	Grey dolomite
225 - 230	Grey dolomite
230 - 235	Greyish jasperoid
235 - 240	Grey dolomite

..cont. Rotary Drill Hole 81 - 11

Feet Depth	Description
240 - 245	Grey dolomite
245 - 250	Grey dolomite
250 - 255	Grey dolomite
255 - 260	Grey dolomite
260 - 265	Grey dolomite
265 - 270	Grey dolomite
270 - 275	Grey dolomite
275 - 280	Grey dolomite
280 - 285	Grey dolomite
285 - 290	Grey dolomite
290 - 295	Grey dolomite

Descriptive Log

Rotary Drill Hole 81 - 12

Date Collared, February 21, 1981

Feet Depth	Description
0 - 5	No sample
5 - 10	Yellowish white altered volcanic rock with glassy quartz and kaolinite (?)
10 - 15	Yellowish white altered volcanic rock
15 - 20	Yellowish white altered volcanic rock
20 - 25	Yellowish white altered volcanic rock
25 - 30	Yellowish white altered volcanic rock
30 - 35	Yellowish white altered volcanic rock and jasperoid
35 - 40	Yellowish white altered volcanic rock and jasperoid
40 - 45	Yellowish white altered volcanic rock with quartz
45 - 50	Yellowish white altered volcanic rock with quartz
50 - 55	Yellowish white altered volcanic rock with quartz
55 - 60	Yellowish white altered volcanic rock with greyish-white jasperoid
60 - 65	Greyish-white jasperoid
65 - 70	Greyish-white jasperoid
70 - 75	Greyish-white jasperoid
75 - 80	Grey dolomite
80 - 85	Grey dolomite with calcite
85 - 90	Grey dolomite
90 - 95	Grey dolomite
95 - 100	Grey dolomite
100 - 105	Grey dolomite
105 - 110	Grey dolomite
110 - 115	Greyish-white jasperoid
115 - 120	Greyish-white jasperoid
120 - 125	Greyish-white jasperoid with grey dolomite
125 - 130	Grey dolomite with reddish mineral
130 - 135	Grey dolomite
135 - 140	Grey dolomite
140 - 145	Grey dolomite

Descriptive Log

Rotary Drill Hole 81 - 13

Date Collared, February 22, 1981

Feet Depth	Description
0 - 5	No sample
5 - 10	No sample
10 - 15	No sample
15 - 20	Yellowish white altered volcanic rock with glassy quartz
20 - 25	Yellowish white altered volcanic rock
25 - 30	Yellowish white altered volcanic rock
30 - 35	Yellowish white altered volcanic rock
35 - 40	Yellowish white altered volcanic rock
40 - 45	Yellowish white altered volcanic rock with glassy quartz
45 - 50	Yellowish white altered volcanic rock with glassy quartz
50 - 55	Rusty brown altered volcanic rock with glassy quartz
55 - 60	Rusty brown altered volcanic rock with glassy quartz
60 - 65	Greyish-white jasperoid
65 - 70	Greyish-white jasperoid
70 - 75	Greyish-white jasperoid
75 - 80	Rusty brown altered volcanic rock with glassy quartz
80 - 85	Rusty brown altered volcanic rock with glassy quartz
85 - 90	Yellowish white altered volcanic rock
90 - 95	Yellowish white altered volcanic rock with glassy quartz

RECOMMENDATIONS

Drill Testing

A comprehensive drilling programme is recommended. It is necessary to achieve the following goals:

1. Determine the extent of the ore reserves in the areas of drill holes 81-4, 81-5, 81-9, 81-10, 81-1 and 81-3
2. Complete (or redrill) holes 81-6, 81-8 and 81-11 in order to discover if ore exists beneath the ends of those holes
3. Search for ore reserves throughout the area of drill hole 81-11 and 81-12 (RDH 81-12 had the best ore intersections of the 13 drill holes)
4. The area immediately east of Silverton fault is untested except for drill hole 81-10. Many drill holes are required throughout the covered area immediately east of Silverton fault
5. Stibnite veins which occur in volcanic rocks overlying dolomite suggest that replacement mineralization may occur in dolomite beneath outcrops. These areas are untested and should be drilled
6. Large areas of bleached dolomite (Plate I) occur at the top of the mountain northeast from Silverton shaft and many good assays came from this area. These rocks are untested except for surface samples. Drill holes are required here
7. The large covered area south of Silverton shaft is completely unknown. A few test holes are required in this covered area.

A three-phase drilling program is proposed with the various phases of drilling to proceed concurrently.

Phase One

A track mounted percussion drill should be employed to drill at least 100 holes in order to prove ore reserves in the vincinity of drill holes 81-11, 81-12, 81-13, 81-4, 81-5, 81-9, 81-10, 81-1, 81-2 and 81-3. These holes should be drilled to a depth of at least 300 feet. Contract drilling cost is expected to be about $6.00 per foot, or a total of $180,000.

Phase Two

A truck mounted air hammer reverse circulation drill should be employed to test the covered areas east of the Silverton fault and south of the shaft. It would also be used to explore beneath the volcanic rocks near the stibnite veins. About 30 holes, each 500 feet deep should be anticipated. At a cost of $12.00 for the first 300 feet and $14.00 for additional footage, the contract cost will be $192,000.

Phase Three

A diamond drill, recovering NQ core should be employed for drilling exploratory holes;

1. Which cannot be completed by the other drilling techniques
2. Where terrain will not permit access to other types of equipment. In such cases a diamond drill may be placed into position by a helicopter.

A total of 25 diamond drill holes should be anticipated, each to be drilled to at least 500 feet of depth. In addition at least 5 deep holes should be planned to reach 1000 feet of depth.

At a contract cost of $25.00 per foot, the diamond drill program would cost $437,500. If it becomes necessary to drill casing, in case of difficult completions, an additional $50,000 in costs may be anticipated.

Drill moves which are done by helicopter will add $3,000 to the cost of the drill hole.

Underground Testing

Successful identification of ore reserves in a "measured" or "proven" category will probably result in a need for verification of some of the intersections by underground testing.

It is not possible at this time to accurately predict the amount of underground testing which may be required, nor the cost of that work. However it is relatively safe to expect that the total cost of underground mining, sampling and assays will be on the order of $2,000,000.

POSSIBLE ORE RESERVES

It is well established that silver mineralization exists along the hangingwall of Silverton fault over a length of from 2000 feet to 4500 feet. It is further shown that silver mineralization exists for at least 500 feet westerly from Silverton shaft.

Some widths of mineralization encountered in drill holes are shown to be up to 55 feet of 2.19 ounces of silver per ton as in drill hole 81-5 and 3.75 ounces of silver per ton over 45 feet of width in drill hole 81-12. These intersections occur at depths from which ore could be recovered by open pit mining methods. Silver mineralization in drill hole 81-10 contains 1.93 ounces per ton and 0.024 ounces of gold per ton over a width of 40 feet, at a depth of 285 feet, which is also within limits of recovery by open pit mining methods.

The controls of mineralization are not known at this time, except that they are probably due to replacement of dolomite. Nor are the shapes of possible ore bodies known. Thus, it is premature to attempt to assign any ore reserve estimate based upon the information which is available at this time, except in the most general terms. With those limitations in mind however, one may infer for example, that if the mineralization encountered in drill holes 81-12 were continuous over a length of 2000 feet and a width of 200 feet there would be 1,500,000 tons of ore averaging 3.75 ounces of silver ore per ton. However, new information may show that ore bodies may be several times larger or may show that they are much smaller.

ESTIMATED COST OF EXPLORATION

The exploration proposal which is outlined above may require up to one year to complete.

It will be necessary to construct a camp facility on site as no accommodation exists within a reasonable distance from Silverton. This will entail acquiring mobile living quarters and cooking, bath and office facilities. It is probably advisable to construct an assay laboratory on site also.

Power lines exist at a distance of 1 mile from Silverton

shaft and presumably these could be utilized.

It will be necessary to drill a water well and it is believed that this could be accomplished.

The drill program could be completed and evaluated in 6 months, leaving six months to complete the underground testing program. The camp which served the drill program would also serve the underground testing program.

The following provisional exploration budget is believed to adequately reflect the costs which will be encountered in conducting the exploration program as described above.

Geology and engineering	$ 330,000
Roads and drill site preparation	25,000
Assays and leach tests	122,500
Track-mounted percussion drilling	181,000
Reverse circulation drilling	193,000
Diamond drilling	484,500
Underground testing	2,000,000
Camp construction and operation	213,500
Transportation	47,000
Communications	6,000
Administration, on site	37,000
Administration, head office	50,000
Total	$3,655,500

Respectfully submitted

Willard D. Tompson

Willard D. Tompson

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B.C., Canada V7X 1K8
Attn: Will Tompson

Date: February 15, 1981
Laboratory number: 034-1
Analytical method: Fire Assay
Your order number:
Invoice number: C279

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0301	Trace	Nil
0302	Trace	4.52
0303	Trace	0.98
0304	0.005	0.32
0305	0.004	Nil
0306	Trace	Nil
0307	Trace	Nil
0308	Nil	Nil
0309	Nil	Nil
0310	Trace	Nil
0311	Trace	Nil
0312	0.010	Nil
0313	0.006	Nil
0314	Trace	Nil.
0315	0.004	Nil
0316	0.034	Nil
0317	Trace	Nil
0318	Nil	Nil
0319	0.010	Nil
0320	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B.C., Canada V7X 1K8
Attn: Will Tompson

Date: February 15, 1981
Laboratory number: 034-1
Analytical method: Fire Assay
Your order number:
Invoice number: C279

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0321	Trace	Nil
0322	Trace	Nil
0323	Nil	Nil
0324	Trace	0.62
0325	Trace	1.09
0326	0.004	Nil
0327	Nil	Nil
0328	0.004	Nil
0329	0.008	Nil
0330	0.010	0.11
0331	0.012	Nil
0332	Trace	Nil
0333	Nil	Nil
0334	0.022	Nil
0335	Trace	Nil
0336	0.010	Nil
0337	Trace	Nil
0338	Trace	Nil
0339	Trace	Nil
0340	Trace	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B.C. Canada V7X 1K8
Attn: Will Tompson

Date: February 15, 1981
Laboratory number: 034-1
Analytical method: Fire Assay
Your order number:
Invoice number: C279

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0341	Nil	Nil
0342	Nil	Nil
0343	Nil	Nil
0344	Nil	Nil
0345	Nil	Nil
0346	Nil	Nil
0347	0.004	Nil
4088	Trace	Nil
4089	Trace	Nil
4090	Trace	Nil
4091	Nil	Nil
4092	Trace	Nil
4093	Trace	Nil
4094	Trace	Nil
4095	0.006	Nil

B.M. Clem
General Manager

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 040-1
Analytical method: Fire Assay
Your order number:
Invoice number: C298

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0501	Nil	Nil
0502	0.008	0.11
0503	Trace	0.18
0504	Trace	0.20
0505	Nil	Nil
0506	Nil	0.02
0507	Trace	0.21
0508	0.006	0.06
0509	Nil	Nil
0510	Nil	Nil
0511	0.016	Nil
0512	Nil	Nil
0513	Nil	Nil
0514	Trace	Nil
0515	Trace	Nil
0516	0.008	Nil
0517	Nil	0.12
0518	Trace	0.08
0519	Nil	0.44
0520	Nil	0.02

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B.C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 040-1
Analytical method: Fire Assay
Your order number:
Invoice number: C298

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0521	Trace	Nil
0522	Trace	Nil
0523	Nil	0.10
0524	Trace	0.06
0525	Nil	0.02
0526	Nil	0.06
0527	Nil	Nil
0528	Nil	0.02
0529	Nil	Nil
0530	Nil	Nil
0531	Nil	Nil
0532	Nil	0.04
0533	Trace	Nil
0534	Trace	0.04
0535	Trace	Nil
0536	0.014	0.22
0537	0.002	Nil
0538	0.002	Nil
0539	Trace	0.08
0540	Trace	0.14

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 040-1
Analytical method: Fire Assay
Your order number:
Invoice number: C298

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0541	Trace	0.08
0542	Trace	0.08
0543	Nil	Nil
0544	Nil	0.30
0545	Nil	0.38
0546	Nil	0.46

Charles Gustofson
Laboratory Manager

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

REFERENCES CITED

Bonham, H.F., 1967; Silver producing districts of Nevada: Nevada Bur. Mines, Map 33

Hubbs, C.L. and Miller, R.R., 1948; The Great Basin with emphasis on glacial and post glacial times: Bull. Univ. Utah, V. 38, no. 20, p. 90-94

Kral, V.E., 1950; Mineral resources of Nye County, Nevada: Nevada Bur. Mines and Geol., Bull.50, Vol.45, no. 3

Stewart, John H., 1980; Geology of Nevada: Nevada Bur. Mines and Geol., Spec. Pub. 4

Tompson, Willard D., 1980; Geology of the Silverton Mine, Silverton mining district, Nye County, Nevada: private report for Olympic Oil and Gas, Ltd.

Westgate, L.G. and Knopf, A., 1932; Geology and ore deposits in the Pioche district, Nevada: U.S. Geol. Survey Prof. Paper 171.

APPENDIX I

Petrographic Descriptions of
Rock Specimens. Locations
Shown on Plate I

Petrographic Descriptions of Rock Specimens

Specimen 203

This is chert with a little desseminated calcite and sericite (?). There are a few quartz grains which suggest that the cert environment was partly clastic.

Specimen 205

Mineralogy:

Quartz - phenocrysts with embayments and much fragmentation

Replaced biotite - original crystal outlines occur, completely pseudomorphed by alteration minerals (sericite or pyrophyllite ?)

Replaced plagioclase - all crystals totally replaced by kaolinite (?) and pyrophllite (?)

Relict pumice fragments - all devitrified and replaced by alteration minerals (same as above)

Rock Type:

1. Pyroclastic character
2. Brecciation or fragmentation of quartz phenocrysts suggests explosive volcanic activity
3. Rocks are highly altered but primary mineralogy was probably quartz lat ite

Alteration:

1. The alteration is high in clay minerals but perhaps others occur, such as pyrophyllite
2. Alteration was likely to have been relatively low temprature hydrothermal with superposed weathering

Specimen 206

Mineralogy:

Dolomite breccia fragments in calcite-rich matrix (note difference in effervescense)

Local calcite veining

One half percent opaques - probably magnetite with associated limonite-hematite alteration (which gives the rock a reddish color). May be as much as 2 - 3 percent of this alteration. The magnetite (?) is intergrown with the micro-brecciated matrix and is thus contemporaneous with the brecciation and recrystallization

No sulfides
No jasperoid

Specimen 208

Mineralogy:

Biotite - well formed phenocrysts, 10 percent

Plagioclase - well-formed phenocrysts, excellent oscillatory zoning, An 30-40 (av.xtal), An-rich "spikes" (zones), rare rim consisting of dendritic plag., 40 percent

Quartz - well-formed to embayed phenocrysts, 5 percent

Replaced hornblende - completely replaced by a yellowish clayey mineral, best observed in hand specimen, weathered surfaces are voids with

Rock matrix - submicroscopic volcanic matrix, probably has K-feldspar since biotite in rock indicates significant K content, 40 percent

Rock Type:

1. Probably a shallow intrusive (subvolcanic), no tuffaceous characters, only a suggestion of flow structure

2. May be a porphyritic dacite, depending on composition of matrix. Zoning "spike" and dendritic rim on plag indicate a magma mixing origin and a dacitic composition is also likely on that basis

Alteration:

1. Biotite is absolutely fresh yet hornblende is completely replaced by the clay-like mineral. This suggests a "high" temperature hydrothermal alteration rather than weathering

Note: This specimen was taken from an outcrop about 1000 feet east from the Silverton shaft and about 2000 feet north from the main highway. The sample site area is not shown on Plate I.

Specimen 212

Mineralogy:

Quartz phenocrysts - 15 percent

Feldspar phenocrysts - plag (?), completely pseudomorphed by kaolinite (?)

Biotite phenocrysts - replaced by a chlorite (gray)

Matrix - exceedingly fine-grained, greenish-gray, patches of chalcedonic silica (not in veins)

Trace limonite

No opaques

Specimen 212 cont.

Comments on alteration:

No silica veining. Could the chalcedony be redistribution of matrix quartz? Otherwise, possible silica introduction at time of kaolinization

Original rock:

Porphyritic felsic volcanic. Could this be devitrified vitrophyric phase of a welded tuff?

Specimen 213

Mineralogy:

Quartz phenocrysts - 15 percent, some are brecciated with cross-cutting microveins of matrix

Feldspar phenocrysts - probably plagioclase, completely pseudomorphed by kaolinite (probably)

Biotite phenocrysts - completely pseudomorphed by sericite or pyrophyllite

Matrix - exceedingly fine-grained, locally with mosaics of coarser quartz (probably endogenic)

Trace orange limonite

Trace hematite

No opaques

Lithic fragment - shale (?)

Comments on alteration:

No quartz or chalcedony veins - quartz in matrix is probably endogenic

APPENDIX II

Reports of Analysis

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C. Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
**01		
02	Trace	Nil
03	Trace	0.38
04	Nil	0.31
05	Trace	0.49
06	0.002	Nil
07	Trace	Nil
08	Nil	0.17
09	Trace	0.14
010	0.006	0.32
011	Nil	0.07
012	Nil	Nil
013	Nil	0.19
014	Nil	0.45
015	Trace	0.22
016	0.004	1.15
017	0.008	0.78
018	Trace	0.63
**019		
020	0.005	0.45

(Continued)

**No Sample

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read − as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
021	0.006	0.12
022	0.005	0.15
023	Trace	0.37
025	0.004	0.05
026	Trace	0.25
027	Trace	0.27
028	0.002	1.09
029	0.004	0.34
030	0.004	0.54
031	Nil	0.07
032	Trace	0.05
033	0.002	0.60
034	Nil	0.11
035	Nil	0.12
036	Nil	0.01
037	Trace	0.10
038	Trace	0.02
039	Nil	Nil
040	0.004	0.15
041	0.002	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
042	0.005	Nil
043	Nil	0.39
044	Nil	Nil
045	0.002	0.22
046	Trace	Nil
047	Nil	0.54
048	Trace	Nil
049	Trace	0.07
050	Trace	0.04
051	Nil	Nil
052	Nil	Nil
053	Trace	Nil
054	Nil	Nil
055	Trace	0.05
056	Nil	Nil
057	Trace	Nil
058	Trace	0.23
059	Nil	Nil
060	Trace	0.21
061	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
062	Nil	0.43
063	Nil	Nil
064	Nil	0.05
065	Nil	0.19
066	Trace	Nil
067	Nil	0.13
068	Trace	0.37
069	Nil	0.05
070	Trace	0.09
071	Nil	0.17
**072		
073	Nil	Nil
074	Nil	Nil
075	Nil	0.11
076	Trace	0.37
077	Nil	0.04
078	Nil	Nil
079	Nil	Nil
080	Nil	Nil
081	Nil	Nil

**No Sample

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
082	Nil	Nil
083	Nil	Nil
084	0.006	0.27
085	Trace	Nil
086	0.004	Nil
087	0.002	Nil
088-A	Trace	0.09
088-B	Nil	Nil
089	Nil	0.08
090	Trace	0.29
091	Nil	Nil
092	Nil	0.20
093	0.027	Nil
094	0.005	1.58
095	Nil	0.02
096	Nil	0.07
097	0.009	0.51
098	Nil	0.05
099	0.007	Nil
0100	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0101	Nil	Nil
0102	Nil	Nil
0103	Trace	0.16
0104	Trace	0.09
0105	Nil	Nil
0106	Trace	0.13
0107	Nil	Nil
0108	Nil	Nil
0109	Nil	Nil
0110	Nil	0.16
0111	Nil	0.19
0112	Trace	Nil
0113	Trace	Nil
0114	0.009	0.09
0115	0.005	Nil
0116	Nil	Nil
0117	Nil	Nil
0118	Nil	0.21
0119	0.017	1.16
0120	0.006	0.66

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0121	Nil	Nil
0122	Trace	Nil
0123	0.011	0.07
0124-A	0.004	0.21
0124-B	Trace	0.07
0125	Nil	Nil
0126	0.002	0.08
0127	0.023	0.14
0128	Nil	Nil
0129	0.005	0.06
0130	Trace	Nil
0131	Nil	Nil
0132	Nil	Nil
0133-A	Nil	Nil
0133-B	Trace	0.19
0134	Trace	0.28
**0135		
0136	Nil	0.48
0137-A	Trace	Nil
0137-B	Nil	Nil

(Continued)

**No Sample

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read − as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
**0138		
0139	0.002	Nil
0140	Nil	0.05
0141	0.004	Nil
0142-A	Nil	Nil
0142-B	Nil	0.03
0143	Nil	Nil
0144	0.009	0.58
0145	Trace	0.14
0146-A	Nil	Nil
0146-B	Nil	Nil
0147	Nil	Nil
0148	Trace	0.09
0149	0.005	0.08
*0150	0.008	Nil
0151	Trace	0.70
0152	0.004	Nil
0153	Nil	Nil
0154	Nil	Nil
0155	Nil	Nil

*No Sample
*Note: Extremely Oily.

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0158-A	Nil	0.19
0158-B	Nil	Nil
0159	0.004	0.42
0160	Trace	0.08
0161	Trace	Nil
0162	0.007	Nil
0164	Nil	Nil
0165	Nil	Nil
0167	Trace	0.88
0168	Nil	0.62
0169	Nil	0.62
0170	Nil	0.64
0171	Nil	0.66
0172	Nil	0.52
0173	Nil	0.74
0174	Trace	0.62
0175	Nil	0.42
0176	Nil	0.52
0177	Nil	Nil
0178	0.002	0.14

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0179	Nil	0.51
0180	Nil	0.06
0181	Trace	Nil
0182	Nil	Nil
0183	Nil	0.06
0184	Trace	0.02
0185	Nil	Nil
0186	Nil	Nil
0187	Nil	Nil
0188	Trace	Nil
0189	Trace	0.06
0190	Nil	Nil
0191	Nil	Nil
0192	Nil	Nil
0193	Nil	Nil
0194	Trace	0.02
0195	Trace	Nil
0196	Nil	Nil
4001	0.168	0.62
4002	0.109	0.75

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
4003	0.006	Nil
4004	0.002	0.38
4005	Nil	Nil
4006	Nil	Nil
4007	Trace	Nil
4008	Trace	0.07
4009	Nil	0.30
4010	Trace	0.31
4011	Nil	Nil
4012	Nil	Nil
4013	0.008	0.12
4014	0.014	6.38
4015	0.002	Nil
4016	0.002	Nil
4017	0.003	Nil
4018	Nil	Nil
4019	0.004	0.36
4020	0.002	Nil
4021	Trace	Nil
4022	0.004	0.30

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
4023	0.002	Nil
4024	Nil	0.46
4025	0.006	Nil
4026	Trace	0.11
4027	Trace	0.55
4028	Trace	0.03
4029	0.005	0.41
4030	0.023	0.66
4031	0.005	0.34
4032	Nil	Nil
4033	0.004	0.12
4034	Trace	0.56
4035	Nil	0.67
4036	0.004	0.87
4037	Nil	Nil
4038	Trace	Nil
4039	0.015	Nil
4040	0.013	0.44
4041	Trace	0.27
4042	0.014	0.51

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
4043	0.016	2.05
4044	Trace	0.16
4045	Trace	0.15
4046	Nil	Nil
4047	0.013	0.73
4048	Trace	0.12
4049	Nil	Nil
4050	Nil	Nil
4051	0.004	0.30
4052	0.004	Nil
4053	Trace	Nil
4054	0.003	0.39
4055	Trace	Nil
4056	0.004	0.28
4057	Nil	Nil
4058	0.006	0.02
4059	Trace	Nil
4060	Trace	Nil
4061	0.010	0.41
4062	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 10, 1981
Laboratory number: 024-2
Analytical method: Fire Assay
Your order number:
Invoice number: C231

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
4063	Trace	Nil
4064	Nil	Nil
4065	Trace	Nil
4066	Trace	0.06
4067	0.004	0.28
4068	Nil	Nil
4069	0.088	Nil
4070	0.004	Nil
4201	0.002	0.09
4202	0.002	Nil

B. M. Clem
B. M. Clem
General Manager

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 7, 1981
Laboratory number: 033-8
Analytical method: Fire Assay
Your order number:
Invoice number: C277

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0197	Nil	Nil
0198	Nil	0.06
0199	Trace	Nil
0200	Nil	Nil
0202 # Hand Written	0.002	0.06
0202 # Printed	Trace	0.07
0203	Trace	0.14
0204	Trace	0.08
0205	0.002	0.35
0206	0.002	0.13
0207	Nil	0.01
0208	Trace	0.16
0209	Trace	0.40
0210	0.002	Nil
0211	0.002	Nil
0212	Trace	Nil
0213	0.002	0.16
0214	Trace	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 7, 1981
Laboratory number: 033-8
Analytical method: Fire Assay
Your order number:
Invoice number: C277

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0215	Nil	Nil
0216	0.002	Nil
0217	0.002	Nil
0218	Trace	0.35
0219	0.002	Nil
0220	0.002	0.07
0221	Trace	Nil
0222	0.008	Nil
0223	0.002	Nil
0224	Trace	0.26
0225	Trace	0.03
0226	0.002	0.05
0227	Trace	Nil
0228	Trace	Nil
0229	Nil	Nil
0230	Nil	0.07
0231	Nil	Nil
0232	Trace	Nil
0233	Trace	Nil
0234	0.002	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 7, 1981
Laboratory number: 033-8
Analytical method: Fire Assay
Your order number:
Invoice number: C277

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0235	Nil	Nil
0236	Nil	Nil
0237	Trace	Nil
0238	Trace	Nil
0239	Trace	Nil
0240	Nil	Nil
0241	Trace	0.08
0242	Trace	0.43
0243	Trace	0.07
0244	0.002	Nil
0245	Trace	Nil
0246	Trace	Nil
0247	0.002	Nil
0248	Trace	0.09
0249	Nil	Nil
0250	Trace	0.09
0251	Trace	0.38
0252	Trace	0.39
0253	0.002	0.37
0254	Trace	0.01

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 7, 1981
Laboratory number: 033-8
Analytical method: Fire Assay
Your order number:
Invoice number: C277

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0255	Trace	Nil
0256	0.002	0.16
0257	Trace	Nil
0258	0.002	Nil
0259	Trace	0.05
4071	Trace	Nil
4072	Trace	Nil
4073	0.004	0.04
4074	0.002	Nil
4075	0.002	0.42
4076	0.002	Nil
4077	Trace	0.41
4078	0.010	Nil
4079	0.008	Nil
4080	Nil	0.10
4081	0.006	0.01
4082	Trace	Nil
4083	0.002	0.01
4084	Nil	0.21
4085	0.002	0.47

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B.C., Canada V7X 1K8
Attn: Will Tompson

Date: February 7, 1981
Laboratory number: 033-8
Analytical method: Fire Assay
Your order number:
Invoice number: C277

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
4086	0.002	Nil
4087	0.004	0.26
4203	0.002	0.13
4204	Trace	0.30
4205	Nil	Nil
4206	Nil	Nil

Charles Gustofson
Laboratory Manager

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B.C., Canada V7X 1K8
Attn: Will Tompson

Date: February 15, 1981
Laboratory number: 034-1
Analytical method: Fire Assay
Your order number:
Invoice number: C279

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0260	Nil	Nil
0261	Trace	Nil
0262	Trace	Nil
0263	Nil	Nil
0264	Trace	Nil
0265	Nil	Nil
0266	0.007	1.26
0267	Trace	Nil
0268	Trace	Nil
0269	Trace	Nil
0270	Nil	Nil
0271	Trace	Nil
0272	Trace	Nil
0273	0.005	0.82
0274	Trace	Nil
0275	Trace	Nil
0276	Trace	Nil
0277	Nil	Nil
0278	Nil	Nil
0279	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B.C., Canada V7X 1K8
Attn: Will Tompson

Date: February 15, 1981
Laboratory number: 034-1
Analytical method: Fire Assay
Your order number:
Invoice number: C279

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0280	Nil	Nil
0281	Nil	Nil
0282	Nil	Nil
0283	Nil	Nil
0284	Trace	Nil
0285	Trace	Nil
0286	Trace	Nil
0287	Nil	Nil
0288	Nil	Nil
0289	Nil	Nil
0290	Nil	Nil
0291	Nil	Nil
0292	Nil	Nil
0293	Trace	Nil
0294	Nil	Nil
0295	Nil	Nil
0296	Nil	Nil
0297	Nil	Nil
0298	Nil	Nil
0299	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 040-7
Analytical method: Fire Assay
Your order number:
Invoice number: C304

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0348	0.002	Nil
0349	Trace	Nil
0350	0.002	Nil
0351	Nil	Nil
0352	Trace	Nil
0353	0.002	Nil
0354	0.004	0.04
0355	Nil	Nil
0356	Nil	Nil
0357	Trace	Nil
0358	Nil	Nil
0359	Trace	Nil
0360	Nil	Nil
0361	0.002	0.61
0362	Nil	Nil
0363	Trace	Nil
0364	Nil	Nil
0365	0.002	Nil
0366	Trace	Nil
0367	0.002	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 040-7
Analytical method: Fire Assay
Your order number:
Invoice number: C304

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0368	Nil	Nil
0369	Nil	Nil
0370	Nil	Nil
0371	Nil	Nil
0372	Trace	Nil
0373	Trace	0.12
0374	Nil	0.01
0375	Nil	Nil
0376	Trace	Nil
0377	Trace	0.22
0378	Trace	Nil
0379	Nil	Nil
0380	Nil	Nil
0381	Trace	0.13
0382	Trace	Nil
0383	Trace	Nil
0384	Nil	Nil
0385	Trace	Nil
0386	Trace	Nil
0387	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 040-7
Analytical method: Fire Assay
Your order number:
Invoice number: C304

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0388	Trace	Nil
0389	Nil	Nil
0390	Nil	Nil
0391	Nil	0.08
0392	0.004	Nil
0393	Nil	Nil
0394	Nil	0.15
0395	Nil	0.11
0396	Nil	Nil
0397	Nil	0.08
0398	Nil	0.24
0399	Trace	Nil
0401	Trace	8.96
0402	0.012	7.36
0403	0.034	1.13
0404	Trace	0.51
0405	Nil	0.47
0406	0.014	1.67
0407	0.010	0.94
0408	Trace	1.87

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 040-7
Analytical method: Fire Assay
Your order number:
Invoice number: C304

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0409	0.016	0.15
0410	0.016	0.55
0411	Trace	0.46
0412	0.006	Nil
0413	0.004	Nil
0414	Nil	Nil
0415	0.024	Nil
0416	0.012	Nil
0417	Nil	Nil
0418	Nil	Nil
0419	Trace	Nil
0420	Nil	Nil
0421	Trace	Nil
0422	Trace	Nil
0423	Nil	Nil
0424	Trace	Nil
0425	0.008	Nil
0426	Nil	Nil
0427	Nil	Nil
0428	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read − as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 040-7
Analytical method: Fire Assay
Your order number:
Invoice number: C304

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0429	Nil	Nil
0430	0.002	Nil
0431	Trace	Nil
0432	Nil	Nil
0433	Nil	0.27
0434	Nil	0.22
0435	Nil	0.05
0436	Nil	Nil
0437	Nil	0.06
0438	Nil	0.04
0439	Nil	Nil
4096	0.006	0.57
4097	Trace	0.05
4098	0.006	0.07
4099	0.002	0.16
4100	Trace	Nil
4101	Trace	Nil
4102	Nil	Nil
4103	Nil	Nil
4104	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 040-7
Analytical method: Fire Assay
Your order number:
Invoice number: C304

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
4105	Trace	1.98
4106	Nil	2.86
4107	Nil	3.94
4108	Nil	0.96
4109	Nil	Nil
4110	0.004	0.24
4111	Nil	0.82
4112	Nil	Nil
4113	Trace	Nil

Charles Gustafson
Laboratory Manager

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C. Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0548	Trace	Nil
0549	Nil	Nil
0550	0.002	Nil
0551	Nil	Nil
0552	Nil	Nil
0553	Nil	Nil
0554	Nil	Nil
0555	Nil	Nil
0556	Nil	Nil
0557	0.002	Nil
0558	Nil	Nil
0559	Nil	Nil
0560	Nil	Nil
0561	Nil	Nil
0562	Nil	Nil
0563	0.004	Nil
0564	Nil	Nil
0565	Nil	Nil
0566	Nil	Nil
0567	Nil	0.01

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0568	Nil	Nil
0569	Nil	Nil
0570	Nil	Nil
0571	Nil	Nil
0572	Nil	Nil
0573	Nil	Nil
0574	Nil	Nil
0575	0.002	Nil
0576	Nil	Nil
0577	Nil	Nil
0578	Nil	Nil
0579	Nil	Nil
0580	0.006	Nil
0581	0.004	0.02
0582	Nil	Nil
0583	0.002	0.09
0584	Nil	Nil
0585	Nil	Nil
0586	0.008	Nil
0587	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0588	Nil	Nil
0589	0.002	0.36
0590	Nil	Nil
0591	Nil	Nil
0592	Nil	Nil
0593	Nil	Nil
0594	Nil	Nil
0595	Nil	Nil
0596	0.002	0.02
0597	Nil	Nil
0598	Nil	Nil
0599	Nil	0.06
0600	Nil	Nil
0601	Nil	Nil
0602	Nil	Nil
0603	Nil	Nil
0604	Trace	0.25
0605	Nil	Nil
0606	Nil	Nil
0607	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0608	Nil	Nil
0609	Nil	0.15
0610	Trace	Nil
0611	Nil	Nil
0612	Nil	0.16
0613	0.002	Nil
0614	Nil	Nil
0615	0.002	Nil
0616	Nil	Nil
0617	Nil	Nil
0618	Nil	Nil
0619	Nil	Nil
0620	Nil	Nil
0621	Nil	Nil
0622	Nil	Nil
0623	Nil	0.08
0624	Nil	Nil
0625	Nil	0.05
0626	Nil	Nil
0627	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0628	Nil	Nil
0629	Nil	0.02
0630	Nil	Nil
0631	Nil	Nil
0632	Nil	Nil
0633	Nil	Nil
0634	Nil	Nil
0635	Nil	Nil
0636	Nil	Nil
0637	0.010	Nil
0638	Trace	Nil
0639	Nil	Nil
0640	Nil	Nil
0641	Nil	Nil
0642	Nil	Nil
0643	Nil	0.11
0644	Nil	Nil
0645	Nil	0.16
0646	Nil	Nil
0648	0.002	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0649	0.004	0.41
0650	Nil	Nil
0651	Trace	Nil
0652	Trace	Nil
0653	Nil	Nil
0654	Trace	Nil
0655	Nil	Nil
0656	Nil	Nil
0657	Nil	Nil
0658	Nil	Nil
0659	Nil	Nil
0660	Nil	Nil
0661	Nil	Nil
0662	Nil	0.02
0663	Nil	Nil
0664	Nil	Nil
0665	Nil	Nil
0666	Nil	Nil
0667	Nil	Nil
0668	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0669	Trace	Nil
0670	Nil	0.24
0671	Nil	0.50
0672	Trace	Nil
0673	Trace	Nil
0674	Nil	Nil
0675	Nil	Nil
0676	Trace	Nil
0677	Nil	Nil
0678	Nil	Nil
0679	Nil	Nil
0680	0.008	Nil
0681	Nil	0.02
0682	Nil	Nil
0683	0.008	0.30
0684	Nil	0.43
0685	Trace	Nil
0686	Nil	0.12
0687	0.004	0.08
0688	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0689	Nil	0.14
0690	Trace	0.48
0691	0.006	0.02
0692	Nil	Nil
0693	0.004	Nil
0694	Nil	Nil
0695	Nil	Nil
0696	Nil	0.23
0697	Nil	Nil
0698	Nil	0.88
0699	Nil	Nil
0700	Nil	Nil
0702	Nil	Nil
0703	Nil	Nil
0704	Nil	Nil
0705	Nil	Nil
0706	Nil	Nil
0707	Nil	Nil
0708	Nil	Nil
0709	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0710	Nil	Nil
0711	Nil	Nil
0712	Nil	Nil
0713	Nil	Nil
0714	0.008	Nil
0715	Nil	Nil
0716	Nil	Nil
0717	0.002	0.02
0718	Nil	Nil
0719	Nil	8.36
0720	Nil	Nil
0721	Nil	Nil
0722	Nil	Nil
0723	Nil	1.91
0724	Nil	0.09
0725	Nil	0.14
0726	Nil	Nil
0727	Nil	Nil
0728	Nil	Nil
0729	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C. Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0730	0.028	Nil
0731	Nil	Nil
0732	Nil	0.09
0733	Nil	Nil
0734	0.008	0.15
0735	Nil	Nil
0736	Nil	Nil
0737	Nil	Nil
0738	Nil	Nil
0739	Nil	Nil
0740	Nil	0.12
0741	Nil	Nil
0742	Nil	Nil
0743	Nil	Nil
0744	Nil	Nil
0745	Nil	Nil
0746	Nil	Nil
0747	0.010	0.31
0748	Nil	Nil
0749	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0750	Nil	Nil
0751	Nil	Nil
0752	Nil	Nil
0753	Nil	Nil
0754	Nil	Nil
0755	Nil	Nil
0756	Nil	Nil
0757	0.004	Nil
0758	Nil	Nil
0759	Nil	Nil
0760	Nil	Nil
0761	Nil	0.01
0762	Trace	Nil
0764	Nil	Nil
0765	Nil	Nil
0766	Nil	Nil
0767	Nil	Nil
0768	Nil	Nil
0769	Nil	Nil
0770	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C. Canada V7X 1K8
Attn: Will Tompson

Date: February 23, 1981
Laboratory number: 041-4
Analytical method: Fire Assay
Your order number:
Invoice number: C310

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0771	Nil	Nil
0772	Nil	Nil
0773	Trace	Nil
0774	Nil	0.17
0775	Nil	Nil
0776	Nil	0.09
0777	Trace	0.21
0778	Nil	Nil
0780	Nil	Nil
4115	Nil	Nil
4116	0.004	0.25
4117	Nil	Nil
4118	0.008	Nil
4120	Nil	Nil
4121	Nil	Nil

Charles Gustafson
Laboratory Manager

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read − as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 14, 1981
Laboratory number: 041-7
Analytical method: Fire Assay
Your order number:
Invoice number: C313

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0440	0.004	0.08
0441	0.003	0.34
0442	Trace	Nil
0443	0.002	Nil
0444	0.002	Nil
0445	0.002	Nil
0446	Trace	Nil
0447	Nil	Nil
0448	Trace	1.44
0449	Nil	Nil
0450	Nil	Nil
0451	0.002	Nil
0452	0.005	Nil
0453	Nil	Nil
0454	0.002	Nil
0455	0.020	Nil
0456	0.002	Nil
0457	0.006	Nil
0458	Nil	Nil
0459	Trace	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 14, 1981
Laboratory number: 041-7
Analytical method: Fire Assay
Your order number:
Invoice number: C313

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0460	0.004	0.18
0461	0.017	0.08
0462	Nil	Nil
0463	Nil	Nil
0464	0.003	Nil
0465	0.002	Nil
0466	0.006	Nil
0467	0.005	Nil
0468	Nil	0.20
0469	0.002	Nil
0470	Nil	Nil
0471	Nil	Nil
0472	0.002	Nil
0473	Nil	Nil
0474	0.002	Nil
0475	0.002	Nil
0476	Nil	Nil
0477	0.004	Nil
0478	0.005	Nil
0479	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read − as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 14, 1981
Laboratory number: 041-7
Analytical method: Fire Assay
Your order number:
Invoice number: C313

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0480	Nil	Nil
0481	Nil	Nil
0482	Nil	Nil
0483	Nil	Nil
0484	0.014	Nil
0485	Nil	Nil
0486	Trace	Nil
0487	Trace	0.24
0488	Nil	Nil
0489	Trace	Nil
0490	Nil	Nil
0491	0.016	Nil
0492	Trace	Nil
0493	Nil	Nil.
0494	Trace	Nil
0495	0.004	Nil
0496	Trace	Nil
0497	Nil	Nil
0498	Nil	Nil
0499	Trace	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: February 14, 1981
Laboratory number: 041-7
Analytical method: Fire Assay
Your order number:
Invoice number: C313

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
4114	0.008	0.010

B.M. Clem
General Manager

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read − as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 17, 1981
Laboratory number: 055-1
Analytical method: Fire Assay
Your order number:
Invoice number: C382

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0941	0.002	0.35
0942	0.002	0.11
0943	0.056	0.10
0944	0.004	0.15
0945	Nil	0.27
0946	0.014	0.58
0947	0.024	0.40
0948	0.020	0.18
0949	0.034	0.08
0950	0.012	0.04
0951	0.016	0.81
0952	0.010	17.62
0953	Trace	0.62
0954	Trace	1.15
0955	Trace	0.35
0956	0.010	0.06
0957	0.002	0.36
0958	Trace	0.14
0959	Nil	0.14
0960	0.002	0.12

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 17, 1981
Laboratory number: 055-1
Analytical method: Fire Assay
Your order number:
Invoice number: C382

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0961	Nil	1.62
0962	0.002	7.02
0963	Trace	2.33
0964	Nil	2.29
0965	Trace	0.47
0966	0.004	0.32
0967	0.008	0.28
0968	0.050	0.32
0969	0.004	0.16
0973	Nil	0.21
0974	Nil	0.24
0975	0.002	0.22
0976	Trace	0.14
0977	Trace	0.25
0978	Nil	0.18
0979	0.040	0.02
0980	0.012	0.09
0981	0.002	Nil
0982	0.010	0.18
0983	0.008	0.05

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton
Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 17, 1981
Laboratory number: 055-1
Analytical method: Fire Assay
Your order number:
Invoice number: C382

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0984	0.004	0.19
0985	0.026	0.14
0986	0.020	0.10
0987	0.004	0.22
0988	0.024	Nil
0989	0.004	0.11
4123	Trace	0.83
4126	0.004	0.11
4128	Nil	0.19
4129	0.006	0.36
4130	Trace	0.15
4131	0.004	0.08
4132	0.006	0.22
4133	0.006	0.45
4134	0.004	0.12
4135	0.002	Nil
4136	0.008	0.28

Charles Gustofson
Laboratory Manager

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 13, 1981
Laboratory number: 048-5
Analytical method: Fire Assay
Your order number:
Invoice number: C346

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0763	Nil	0.28
0779	Nil	0.15
0782	0.018	0.09
0783	Trace	0.42
0784	0.002	0.26
0785	Trace	0.30
0786	Trace	0.34
0787	Trace	0.26
0788	Trace	0.08
0789	0.012	0.40
0790	Trace	0.18
0791	Nil	0.24
0792	0.004	0.20
0793	Nil	0.30
0794	Nil	Nil
0795	Nil	Nil
0796	Nil	Nil
0797	Nil	Nil
0798	Trace	0.38
0799	Nil	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 13, 1981
Laboratory number: 048-5
Analytical method: Fire Assay
Your order number:
Invoice number: C346

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0800	Nil	0.14
0801	Nil	Nil
0802	Nil	0.42
0803	Nil	0.10
0804	Nil	0.24
0805	Trace	0.12
0806	Nil	Nil
0807	Nil	Nil
0808	Trace	0.30
0809	Trace	4.26
0810	Nil	0.08
0811	Nil	Nil
0812	Trace	0.46
0813	Trace	Nil
0814	Nil	0.44
0815	Nil	0.16
0816	Nil	0.20
0817	Trace	0.30
0818	Trace	Nil
0819	Nil	0.68

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 13, 1981
Laboratory number: 048-5
Analytical method: Fire Assay
Your order number:
Invoice number: C346

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0820	0.005	8.52
0821	Nil	0.24
0822	Trace	0.51
0823	Trace	1.05
0824	Nil	Nil
0825	0.012	0.06
0826	Trace	Nil
0827	0.030	0.09
0828	Trace	Nil
0829	Trace	Nil
0830	0.022	4.84
0831	Trace	0.88
0832	Trace	0.38
0833	0.146	0.56
0834	Nil	7.48
0835	0.020	0.14
0836	0.004	0.85
0837	Nil	0.31
0838	0.022	0.10
0839	0.012	Nil

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 13, 1981
Laboratory number: 048-5
Analytical method: Fire Assay
Your order number:
Invoice number: C346

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0840	Nil	Nil
0841	0.004	0.12
0842	0.004	Nil
0843	Nil	0.03
0844	Nil	Nil
0845	Nil	0.01
0846	Nil	0.05
0847	0.004	0.20
0848	Nil	0.05
0849	Trace	Nil
0850	Trace	0.09
0851	Nil	0.05
0852	Trace	0.01
0853	Trace	0.09
0854	Nil	0.13
0855	Nil	Nil
0856	Trace	0.11
0857	0.002	0.06
0858	Nil	0.12
0859	Nil	0.06

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 13, 1981
Laboratory number: 048-5
Analytical method: Fire Assay
Your order number:
Invoice number: C346

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0860	Trace	Nil
0861	Nil	0.29
0862	Nil	0.76
0863	Nil	0.23
0864	Trace	0.29
0865	Trace	0.33
0866	Nil	0.07
0867	Trace	Nil
0868	Nil	0.14
0869	Nil	0.14
0870	Trace	0.16
0871	Trace	0.24
0872	Trace	0.49
0873	0.014	0.45
0874	Nil	0.45
0875	Nil	0.29
0876	0.002	Nil
0877	0.006	0.38
0878	0.006	0.93
0879	0.004	0.03

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton
Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read − as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 13, 1981
Laboratory number: 048-5
Analytical method: Fire Assay
Your order number:
Invoice number: C346

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0880	0.020	Nil
0882	0.004	0.24
0883	Nil	0.31
0884	0.002	0.35
0885	Trace	Nil
0886	Nil	0.24
0887	Nil	Nil
0888	Trace	Nil
0889	Nil	0.37
0890	Trace	0.30
0891	0.006	0.15
0892	Nil	Nil
0893	0.018	0.36
0894	0.006	0.21
0895	0.006	0.16
0896	Trace	0.24
0897	Nil	0.45
0898	Nil	0.19
0899	0.012	0.13
0900	0.020	0.25

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 13, 1981
Laboratory number: 048-5
Analytical method: Fire Assay
Your order number:
Invoice number: C346

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0901	0.010	0.27
0902	Nil	0.48
0903	0.030	0.38
0904	0.014	0.09
0905	0.004	0.14
0906	0.006	0.16
0907	0.004	0.27
0908	0.006	0.06
0909	Trace	Nil
0910	0.004	0.26
0911	Nil	0.30
0912	Trace	0.15
0913	Trace	0.52
0914	Nil	0.42
0915	Nil	0.23
0916	Nil	0.19
0917	Nil	0.23
0918	Nil	0.29
0919	Nil	Nil
0920	Nil	0.11

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 13, 1981
Laboratory number: 048-5
Analytical method: Fire Assay
Your order number:
Invoice number: C346

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
0921	Nil	0.40
0922	Nil	0.13
0923	Nil	0.19
0924	Trace	0.08
0925	Nil	0.17
0926	Nil	0.29
0927	0.008	0.11
0928	Nil	Nil
0929	0.010	0.24
0930	Trace	0.17
0931	Nil	0.10
0932	0.002	0.16
0933	Trace	0.10
0934	Nil	0.16
0935	Nil	Nil
0936	Nil	Nil
0937	Trace	0.13
0938	0.002	0.19
0939	0.006	0.75
4119	0.010	1.59

(Continued)

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Western Testing Laboratories
1080 Linda Way, No. 3
Sparks, Nevada 89431
Telephone: (702) 331-3600

Report of Analysis

Submitted by: Olympic Oil & Gas
1763-595 Burrard Street
Vancouver, B. C., Canada V7X 1K8
Attn: Will Tompson

Date: March 13, 1981
Laboratory number: 048-5
Analytical method: Fire Assay
Your order number:
Invoice number: C346

Report on: Au, Ag

Sample	Au (Oz/Ton)	Ag (Oz/Ton)
4122	Trace	63.06
4124	0.030	18.11
4125	0.014	0.67
4127	0.010	0.66
4207	0.006	0.22
4208	0.006	0.30

Charles Gustofson
Laboratory Manager

ppm = Parts per million
Percent = Parts per hundred
1 oz/ton = 34.286 ppm
1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois
Fineness = Parts per thousand
1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton
Read + as "greater than." Read – as "less than."

Clay Alteration in Volcanic Rocks
Silverton Mining District, Nye County, Nevada

Willard D. Tompson

September 20, 1982

CONTENTS

LIST OF ILLUSTRATIONS

Plates

Figures

SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

Volcanic rocks at Silverton, Nevada are intensely altered as a result of hydrothermal activity. Two zones of altered rocks are bleached nearly white and are composed largely of clay with quartz, chalcedonic quartz and quartz veins. Stibnite occurs in some quartz veins. The zones are each 1000 to 2000 feet wide by 4000 feet long and strike north-northeasterly. The silicified zones are up to 150 feet wide and strike north-northeasterly to east-west.

Buchanan (1980) shows that distinct suites of alteration minerals occur in volcanic rocks which are host rocks for gold and silver deposits. Minor precious metal production is recorded from jasperoid which is associated with Devils Gate limestone at Silverton, but very little work has been done in the volcanic rocks, even though they display extreme hydrothermal alteration.

Kaolinite, gibbsite, illite, montmorillonite, and alunite were identified in rocks from several locations throughout the altered areas. Fluid inclusion homogenziation temperatures vary from 196.3 to 236.8 degrees C.

Silverton lies at the eastern edge of Williams Ridge caldera. Brecciation of some of the volcanic rocks at Silverton reflects the near proximity to this major volcanic feature.

Silverton is believed to conform closely to the model of the low pH cap as described by Buchanan (1980).

Deep diamond drill holes supplemented with shallow rotary drill holes in areas of quartz veins and silicified zones, are recommended for further evaluation of the economic potential of the Silverton district.

Clay Alteration in Volcanic Rocks,
Silverton Mining District, Nye County, Nevada

PROPERTY AND LOCATION

Silverton lies in the southern half of the Pancake Range in east-central Nevada (Figs. 1 and 2). Small shipments of oxidized silver ore were made from Silverton in the mid 1930's which were reported to carry values in argentite, ceragyrite and native silver (Kral, 1950). According to Bonham (1967) total production was less than 10,000 ounces.

Silverton mining district takes its name from the mine. Production was from two adits and a shaft with perhaps some production from other small adits, a small inclined shaft and several small hand dug pits.

Like many other mountain ranges in the Basin and Range province of Nevada and Utah, Pancake Range strikes northerly. It is flanked on the east by Railroad Valley and on the west by Big Sand Springs Valley (Fig. 1). Railroad Valley was occupied by a lake until recent times (Hubbs and Miller, 1948) but now is dry except for drenched mud flats during periods of heavy run-off.

Near the centre of the district latitude is 38°31' north and longitude is 115°52'30" west.

Magnetic north is 16 degrees east of true north.

Railroad Valley is the most prominent landmark in the area. It strikes north-northeasterly and is 50 miles long and up to 12 miles wide. Elevations are 4700 and 4900 feet. One all-weather blacktop road, which is 6 miles long crosses the north end of the valley at the site of the Railroad Valley oil field.

Silverton is less than one mile from U.S. Highway 6. The nearest railway is at Ely, Nevada about 80 miles northeasterly. Tonopah is 86 miles southwesterly from Silverton.

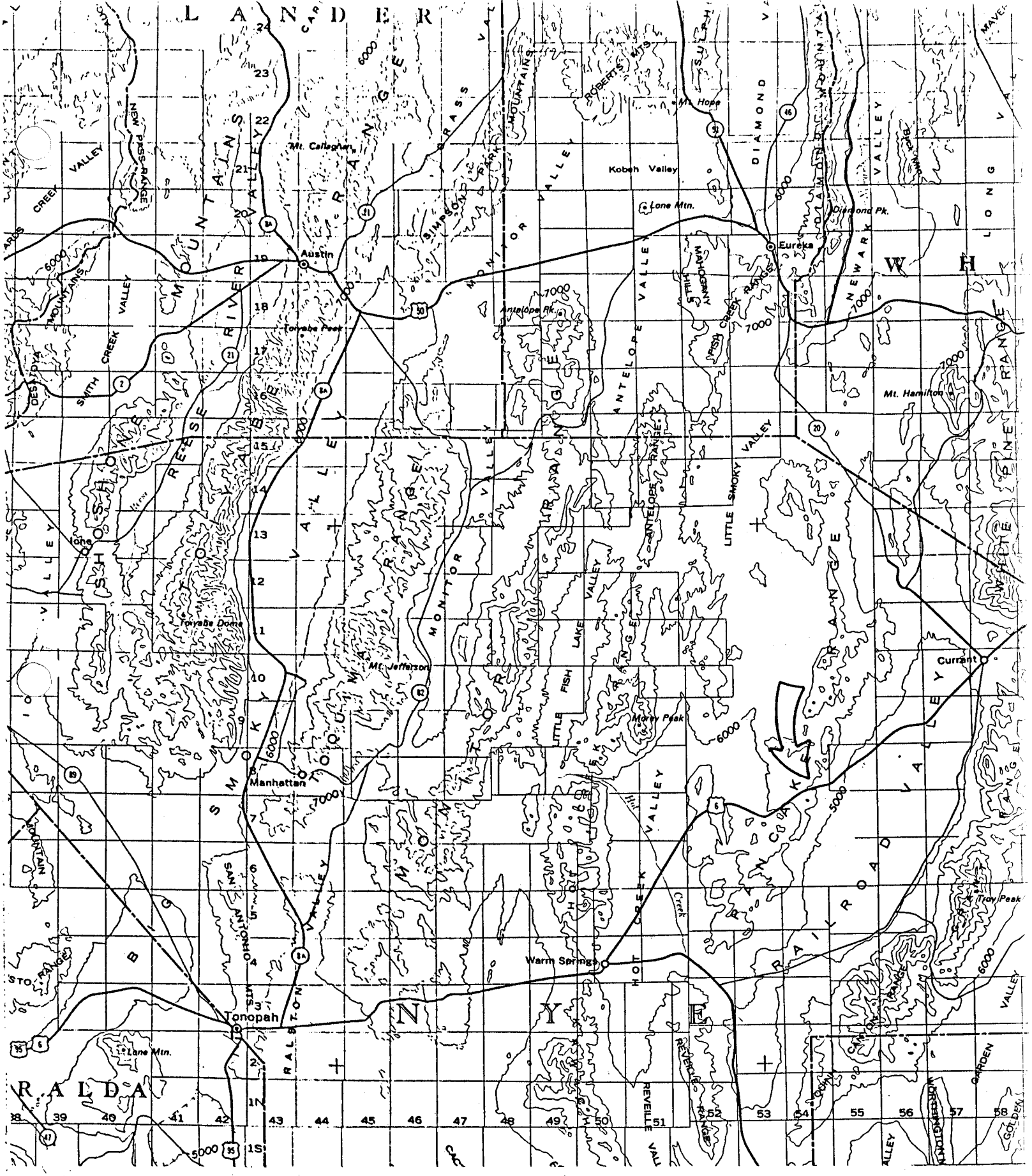


Figure 1. - Map showing location of Silverton.
Scale, 1:1,000,000

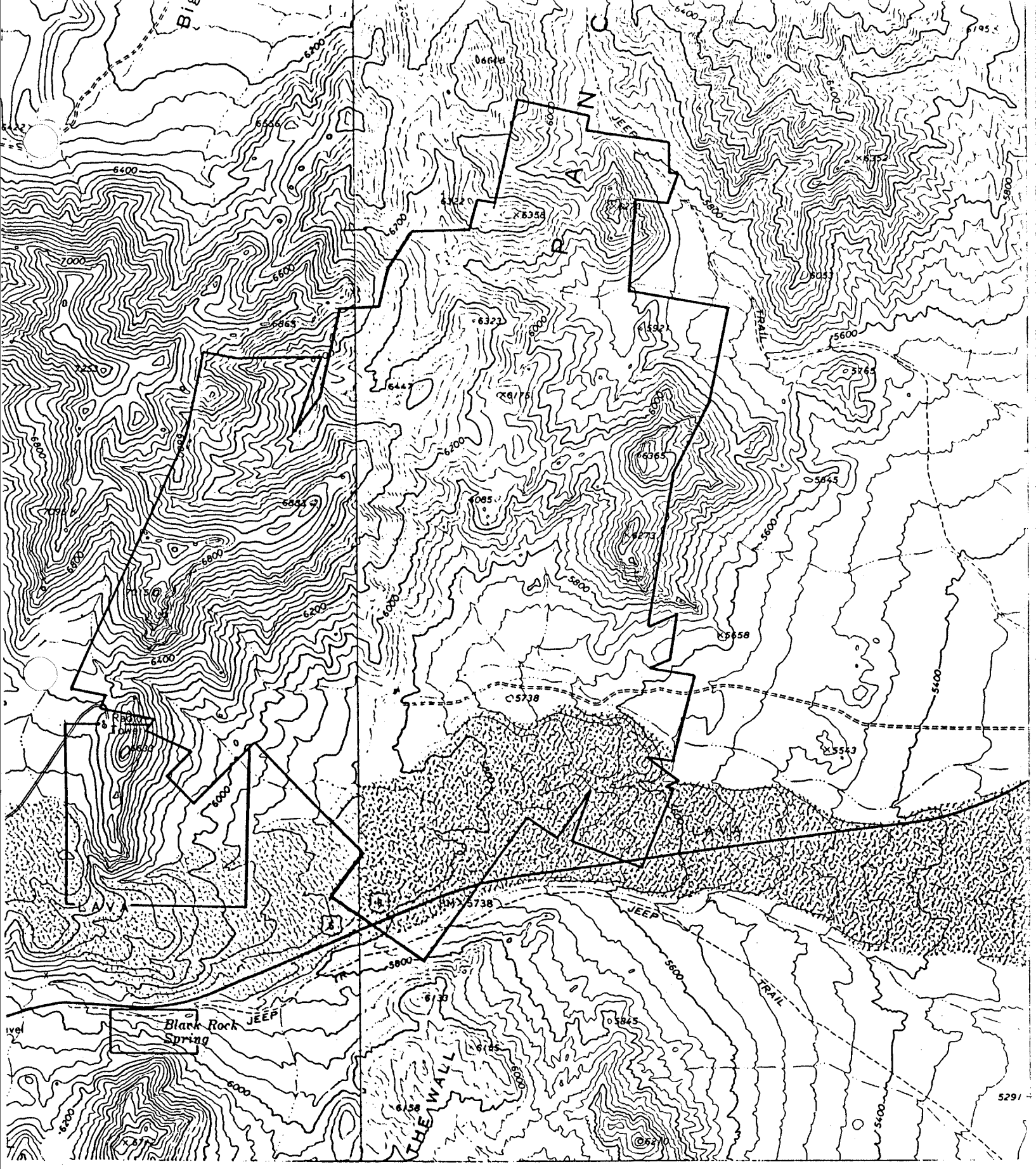


Figure 2. - Topographic map of Silverton area, showing location and shape of claim blocks
Scale, 1:24,000

OWNERSHIP AND HISTORY

Mineral Economics Corporation, a Nevada corporation, is the registered owner of 118 mining claims and 4 millsites which are held by right of location. The mining claims were located between the years of 1914 and 1945 and apparently have been maintained to this date.

35 claims,	located in 1914
12 claims,	located in 1917
19 claims,	located in 1919
24 claims,	located in 1934
4 claims,	located in 1935
24 claims,	located in 1945
4 millsites	located in 1970

A group of claims called the Pony claims were staked in 1965 by Alf. O. Westby and Madison D. Locke of Ely, Nevada. A Lease and Option agreement was acquired from Madison Locke, Alf O. Westby and Maureen Westby on the Pony claims;

Pony No. 1	-	10 inclusive
Pony No. 13	-	16 inclusive
Pony No. 50	-	55 inclusive

A map of the Pony claims, dated August 31, 1972, File Number 4417 is filed with the Nye County Recorder, Tonopah, Nevada.

Rex W. Huntley, Reno, Nevada entered into a Lease and Option agreement with Mineral Economics Corporation. Duration of the agreement is from July 1, 1979 to June 30, 1989. Southern Olympic Oil and Gas, Inc., a Texas corporation acquired an assignment from Rex W. Huntley.

	Claim Name	Date of Location	Book No.	Page No.	BLM No.
1.	Afterthought No.1	7/3/45	101	124-125	98331
2.	Afterthought No.2	8/31/45	101	125-126	98332
3.	Alto No. 1	7/27/14	248	416	98333
4.	Alto No. 2	7/27/14	248	417	98334
5.	Alto No. 3	7/37/14	248	418	98335
6.	Alto No. 4	7/27/14	248	419	98336
7.	Alto No. 5	7/27/14	248	420	98337
8.	Alto No. 6	7/27/14	248	421	98338
9.	Blackhawk No. 1	7/1/45	101	134	98339
10.	Blackhawk No. 2	7/1/45	101	135	98340
11.	Blackhawk No. 3	7/1/45	101	135-136	98341
12.	Blackhawk No. 4	7/1/45	101	136	98342
13.	Blackhawk No. 5	7/1/45	101	136-137	98343
14.	Blackhawk No. 6	7/1/45	101	137	98344
15.	Blind Pig	4/11/17	248	422	98345
16.	Butte Ex	7/24/14	248	423	98346
17.	Combernation	9/27/14	61	303-304	98347
18.	Eclipse	2/28/19	248	424	98348
19.	Eldorado	4/14/19	66	80	98349
20.	Elephant No. 1	7/24/34	91	396	98350
21.	Elephant No. 2	9/10/35	91	396-330	98351
22.	General Grant	7/24/14	61	317-318	98352
23.	General Grant No.1	7/24/14	61	318-319	98353
24.	General Grant No.2	7/24/14	61	319	98354
25.	General Grant No.3	7/24/14	61	320	98355
26.	Golden West	2/26/17	63	209	98356
27.	Golden West No. 1	2/26/17	63	210	98357
28.	Golden King	2/28/19	66	81-82	98358
29.	Grand Prize	2/28/19	66	81	98359
30.	Hermit	4/14/19	66	78-79	98360
31.	Iron Crown	7/25/14	248	425	98361
32.	Iron Crown Ex	7/25/14	248	426	98362
33.	Iron Crown Ex #1	7/25/14	248	427	98363
34.	Iron Crown No. 2	7/25/14	248	428	98364
35.	Iron King	7/25/14	248	429	98365
36.	Iron King No. 1	7/25/14	61	304-305	98366
37.	Iron King No. 2	7/25/14	61	305-306	98367
38.	Iron King No. 3	7/25/14	248	430	98368
39.	Iron King No. 5	7/25/14	61	306	98369
40.	Iron King No. 6	7/25/14	61	307	98370
41.	Jubilee No. 1	7/1/45	101	126	98371
42.	Jubilee No. 2	7/1/45	101	126-217	98372
43.	Jubilee No. 3	7/1/45	101	127	98373
44.	Jubilee No. 4	7/1/45	101	127-128	98374
45.	Jubilee No. 5	7/1/45	101	128	98375
46.	Jubilee No. 6	7/1/45	101	129	98376
47.	King of All	7/28/14	248	431	99377
48.	La Plata M.Co. No.1	8/14/34	248	433	98378

	Claim Name	Date of Location	Book No.	Page No.	BLM No.
49.	La Plata M.Co. No.2	8/14/34	248	434	98379
50.	La Plata M.Co. No.3	8/14/34	248	435	98380
51.	Little Corporal	4/14/19	66	79-80	98381
52.	Little Sergent	4/14/19	66	77-78	98382
53.	Manhattan No. 1	7/2/45	101	133	98383
54.	Manhattan No. 2	7/2/45	101	133-134	98384
55.	May Flower No. 1	5/23/34	91	392	98385
56.	May Flower No. 2	5/23/34	91	392	98386
57.	May Flower No. 3	5/23/34	91	392-393	98387
58.	May Flower No. 4	5/23/34	91	393	98388
59.	Monte Carlo City	7/28/14	61	308-309	98389
60.	Monte Carlo City No.1.	7/28/14	61	309-310	98390
61.	Pioneer	2/28/19	248	436	98391
62.	Pioneer No. 1	2/28/19	248	437	98392
63.	Pioneer No. 2	2/28/19	248	438	98393
64.	Prince Albert Fraction	7/27/14	248	439	98294
65.	Prince Albert No. 1	7/27/14	61	331	98395
66.	Prince Albert No. 2	7/27/14	61	332	98396
67.	Prince Albert No. 3	7/27/14	61	332-333	98397
68.	Prince Albert No. 4	7/27/14	61	333	98398
69.	Real Monte Carlo	7/18/14	61	307-308	98399
70.	Red Top	7/26/14	61	323-324	98400
71.	Silver	7/27/14	248	440	98401
72.	Silver Dike	7/2/45	248	441	98402
73.	Silver Ex #1	7/28/14	248	442	98403
74.	Silver Dollar	5/25/34	91	393	98404
75.	Silver Dollar No. 1	3/20/19	66	157-158	98405
76.	Silver Dollar No. 2	5/23/34	91	393	98406
77.	Silver Dollar Fraction	3/10/19	248	443	98407
78.	Silver King Mining Claim	2/24/19	65	568	98408
79.	Silver King No. 1	2/28/19	66	75	98409
80.	Silver King No. 2	2/24/19	65	568-569	98410
81.	Silver King No. 3	2/24/19	65	569-570	98411
82.	Silver King No. 5	2/28/19	66	76	98412
83.	Silver King No. 6	2/28/19	66	76-77	98413
84.	Silver King Fraction	3/10/19	248	444	98414
85.	Silver Peak Ex	4/12/17	63	405-506	98415
86.	Silver Peak Ex No.2	4/12/17	63	406	98416
87.	Silver Queen	7/26/14	61	324-325	98417
88.	Silver Queen No.1	5/25/34	91	394	98418
89.	Silver Queen No.2	5/23/34	91	394	98419
90.	Silver Queen No.3	8/10/34	91	395	98420
91.	Silver Queen Ex	8/11/34	248	445	98421
92.	Silver Queen Ex.No.1	8/12/34	248	446	98422
93.	Silver Queen Ex.No.2	8/12/34	248	447	98423
94.	Silver Queen Ex.No.3	8/12/34	248	448	98424
95.	Silver Queen Ex.No.4	8/12/34	248	449	98425
96.	Silver Queen Ex.No.5	8/12/34	248	450	98426

	Claim Name	Date of Location	Book No.	Page No.	BLM No.
97.	Silver Queen Ex No.6	8/12/34	248	451	98427
98.	Silver Queen Ex No.7	8/12/34	248	452	98428
99.	Silver Queen Fraction	9/10/35	248	453	98429
100.	Silver Queen Tunnel	9/10/35	91	394	98430
101.	Silverton	4/11/17	248	454	98431
102.	Silverton No. 1	7/2/45	101	129-130	98432
103.	Silverton No. 2	7/2/45	101	130	98433
104.	Silverton No. 3	7/2/45	101	130-131	98434
105.	Silverton No. 4	7/2/45	101	131	98435
106.	Silverton No. 5	7/2/45	101	132	98436
107.	Silverton No. 6	7/2/45	101	132-133	98437
108.	Silverton No. 7	7/2/45	248	455	98438
109.	Sunrise	4/11/17	248	456	98439
110.	Sunrise No. 1	4/11/17	248	457	98440
111.	Tip Top	4/11/17	63	458	98441
112.	Tuxedo	4/11/17	248	458	98442
113.	Tuxedo No. 1	4/11/17	248	459	98443
114.	Valley View	4/11/17	248	460	98444
115.	Woodrat No. 1	7/2/34	91	395	98445
116.	Woodrat No. 2	7/2/34	91	395	98446
117.	Woodrat No. 3	9/2/35	91	395-396	98447
118.	La Plata M.Co (Association Placer Mining Claim	8/14/34	248	432	98448
119.	J. C. Tognoni Millsite # 1	8/22/70	136	177	98449
120.	J. C. Tognoni Millsite # 2	8/22/70	136	178	98450
121.	J. C. Tognoni Millsite # 3	8/22/70	136	179	98451
122.	J. C. Tognoni Millsite # 4	8/22/70	136	180	98452

GEOLOGY

Sedimentary Rocks

The oldest rocks in the Silverton mining district are gray to smokey gray, thick bedded dolomites. They produce a fetid odor on fresh breaks and contain beds which are crowded with the remains of branching corals, giving rise to the term "spaghetti beds" as used by Westgate and Knopf (1932, pp. 16-18) in their work at Pioche. The corals are believed to be *Cladopora*. Their fossil remains at Silverton are coarsely crystalline and up to 2 centimeters long and 2 millimeters in diameter.

The dolomite is of the Devils Gate formation and is Upper to Middle Devonian in age. This writer identified the dolomite as Silverhorn in an earlier report (Tompson, 1981) but in this report conforms to the nomenclature of Quinlivan and others (1974).

The dolomite crops out over an area of about 2500 feet by 6000 feet. Bedding strikes mostly northeasterly with dips from 10 to 30 degrees southeasterly. No abrupt changes in bedding attitudes were noted.

Extrusive Rocks

M.J. Hibbard, Reno, Nevada described the rocks following a petrographic study (personal communication, 1982). The pre-alteration rock type is rhyodacite to dacite composition with some evidence (spike zoning in plagioclase) that they are of magma-mixing origin. There is no hard evidence such as glass shards, pumice or divitrified equivalents, that they are of pyroclastic origin. However, brecciation of quartz and plagioclase phenocrysts suggests explosive activity as in the throat of a volcano. Flow layering suggests flow at or near surface.

The matrix in some rocks was probably glass but is now devitrified. In other rocks the matrix was probably submicro-crystalline rather than glass. No pyrite is noted although jarosite is present in many rocks.

Many rocks contain lithic fragments of shale, dolomite and quartzite which were torn from Paleozoic rocks during explosive volcanic activity.

The volcanic rocks are shown by Stewart (1980, p.100) to be 34 to 17 million years old and thus are Eocene to Miocene in age. In the Silverton area they appear to lie upon Tertiary erosion surfaces which were developed upon Devonian dolomite (Plate II). It appears that Quaternary erosion has partially exhumed dolomite in the northwest part of the map area (Plate I).

Later Volcanic Rocks

The southern part of the Silverton district is underlain by a basalt flow which is believed to be Quaternary in age. It flowed from a vent near Black Rock Summit and down a small valley and appears to have terminated near the east side of the district.

The Silverton Fault passes into overburden near the main shaft and probably continues southerly beneath overburden and beneath the basalt. If so, the fault is clearly older than the basalt as there is no offset in the basalt.

ALTERATION AND MINERALIZATION

Alteration of the Volcanic Rocks

M. J. Hibbard, Reno, Nevada reported (personal communication, 1982) on the petrography of the rocks and that information provides the base for the rock descriptions.

Wealkly Altered Volcanic Rocks. - Rocks which are mapped as crystal lava flows (Tcl on map, Plate I) display minor alteration. Four exposures of these rocks occur about 1200 feet easterly from the radio tower (Sp.70,71, Plate I). Another exposure occurs outside the map area 1.7 miles, N82E from the radio tower (Sp.77).

Plagioclase in these rocks is 40 to 50 percent altered to illite-montmorillonite plus calcite. Hornblende is commonly replaced by calcite, chlorite and clay minerals.

Biotite is well formed, glossy and relatively fresh with some iron oxide borders.

The relatively fresh condition of these rocks suggests that they were deposited after the events which produced the hydrothermal alteration of other volcanic rocks and sedimentary rocks, and it is suggested that the crystal lava flow is younger in age than rocks mapped as tuff of Black Rock Summit (Tbr on map) and older than the basalt flow (Ob on map).

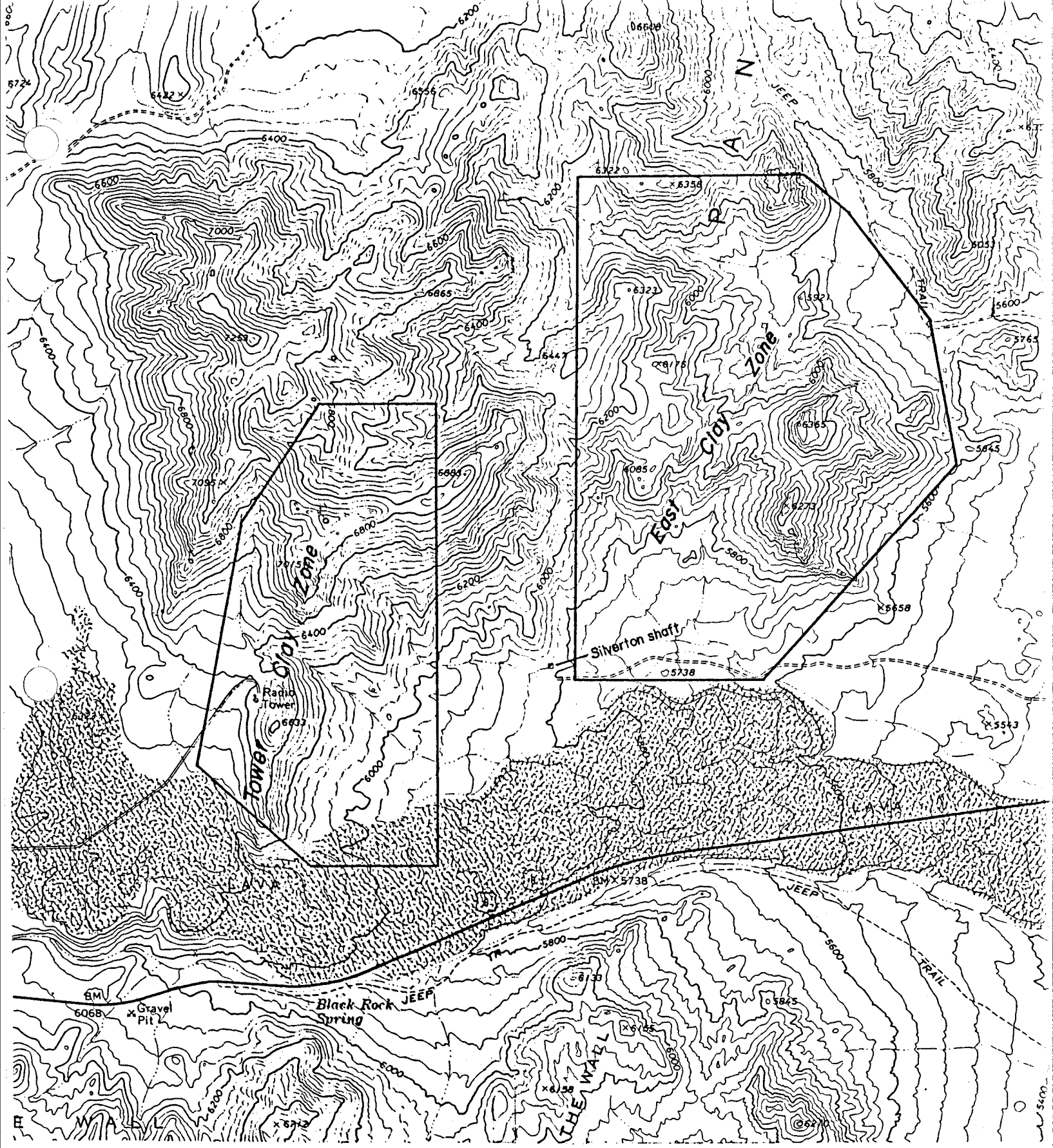


Figure 3. - Index map showing location of the map areas.

Intensely Altered Volcanic Rocks. - Three principal subgroups of intensely altered volcanic rocks are identified:

1. Illite-montmorillonite after plagioclase
2. Kaolinite after plagioclase
3. Weak to intense silicification.

Illite-Montmorillonite After Plagioclase and Kaolinite After Plagioclase. - Rocks which possess alteration products of the first two groups are not readily distinguishable in the field. The rocks are whitish gray to buff colour on the fresh surface and are brown to gray in outcrops. They are believed to be ash flow tuffs with lithic fragments and are mapped as "Tuffs of Williams Ridge and Morey Peak", in conformance with mapping with Quinlivan and others (1974). They are identified in this report by the map symbol, "Twm".

Weak to Intense Silicification. - An attempt was made to map volcanic rocks in which clay alteration is predominant. These rocks bear map symbol, "Cl" on Plates I and II of this report.

The rocks are white in outcrop and white on the fresh surface. Plagioclase is replaced by kaolinite and also has a border zone of quartz. Mafic silicates are replaced by illite. Quartz occurs as matrix in some rocks, indicating more intense silicification. Veinlets of barite occur in some rocks and siderite(?) occurs with limonite.

Volcanic rocks in which brecciation and intense silicification are prominent, occur throughout the property. They commonly contain fine grained chalcedonic quartz and jasperoid and are strongly brecciated. They are dark brown to rusty, reddish brown in colour and form topographic highs. Limonite and hematite contribute to the dark colour of the rocks and hematite-rich(?) chalcedony (or jasperoid?) makes them resistant to weathering. Brecciated, silicified rocks are shown on the maps (Plates I and II) with map symbol, "Bq".

Quartz Veins. - Silicified zones strike about N60E to N70E across the area of alteration in the East Clay zone (Plate II). Dip is 40° N to vertical. The quartz varies from fine grained, brecciated chalcedonic quartz to well formed vein quartz with some subhedral, freely grown crystals.

Individual quartz veins vary in width from a fraction of an inch up to about three feet and several veins commonly occur over the width of the silicified zone, which may be more than 50 feet. Quartz veins with well defined walls occur in the zones with other quartz concentrations which are diffuse and have poorly defined walls. The quartz concentrations which have diffuse contacts are commonly fine grained, brecciated quartz and may be jasperoid replacement of the volcanic rock. At the location of sample 10, 17,110N-12, 800E, jasperoid is transected by a 10 inch quartz vein which contains about 10 to 15 percent stibnite. Large masses of fluorite occur in the wallrocks of the quartz vein. These two types of quartz at the location of sample 10 probably represent successive emplacements of silica into the volcanic rocks.

Temperature of Formation of Quartz. - Fluid inclusion homogenization temperatures were measured on quartz specimens from location number 49, coordinates 16,490N-11,700E (Plate II). The determinations were made by Doug Bruha of Reno, Nevada. Temperatures vary from 196.3 to 236.8 degrees C., a range of 40.5 degrees. No daughter minerals or salts were found in any of the inclusions, which is typical of high level epithermal systems.

Bruha noted (1982, personal communication) that many of the inclusions have morphologies similar to those from Casapalca, Peru as described by Kamilli and Ohmoto (1977) and from Guanajuato, Mexico as described by Buchanan (1980a). Some of the quartz crystals are composed of optically discontinuous layers ("feather quartz"). This coupled with distinct morphological character of the inclusions indicates boiling of the hydrothermal fluids.

Buchanan (1980b, p.251) states that,

"The temperature of formation related to the precious metal ore interval is from around 200°C (the lower temperature postulated for Goldfield) to over 300°C, but averages around 240°C."

A chip sample of the 3 foot quartz vein from which specimen 49 (noted above) was taken assayed;

Au, 0.010 oz/T
Ag, 7.79 oz/T
Sb, 0.93 oz/T
Hg, less than 0.5 ppm.

Clay Alteration of the Volcanic Rocks

There are two principal zones of clay alteration in which the rocks are so intensely bleached as to be readily mapable. Both are more than 4000 feet long, are more than 2000 feet wide and both strike north-northeasterly. The clay zones lie about 3500 feet apart.

X-ray studies of the clay minerals were conducted by L.C. Hsu of Nevada Bureau of Mines and Geology. Results of these studies are included with Appendix II of this report.

For purposes of reference the clay zones are herein referred to as the Tower clay zone, because of the near proximity to the microwave tower (Plate I) and the East clay zone, because it is on the east side of the property (Plate II).

Tower Clay Zone. - The Tower clay zone consists of two parts which are seperated by a fault (Plate I). The northern part strikes about N15E and is about 4000 feet long and up to 2000 feet wide. It has a very irregular outcrop pattern, which is at least partly due to talus which covers the clay zone. In addition, part of the zone is covered by Devonian Devils Gate limestone which was thrust over the Tertiary rocks.

X-ray studies of the clay minerals from the northern part of the Tower clay zone show that they are a mixture of kaolinite and quartz. Some gibbsite and some sericite also occur.

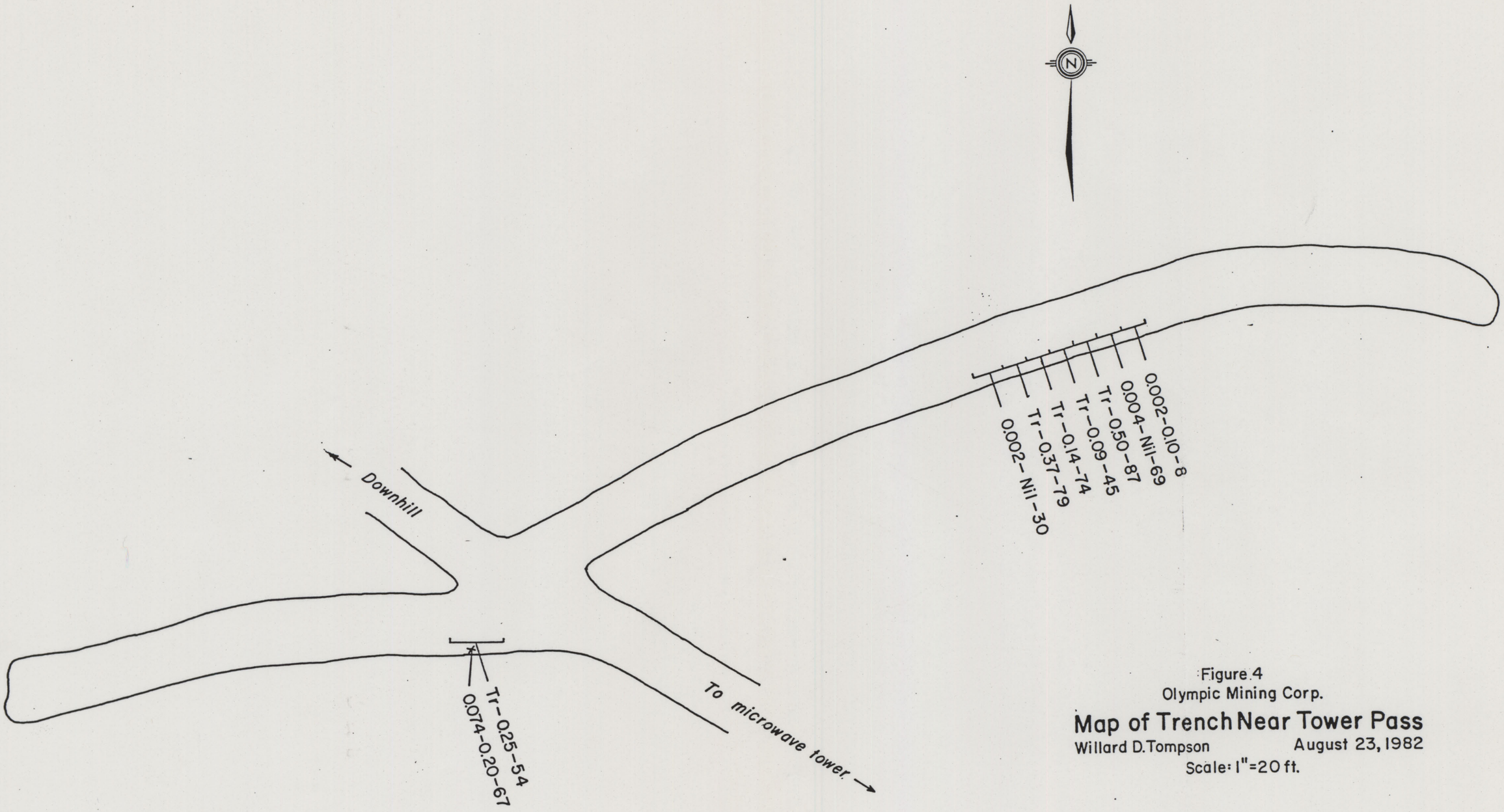


Figure 4
Olympic Mining Corp.

Map of Trench Near Tower Pass

Willard D. Tompson August 23, 1982

Scale: 1" = 20 ft.

Assay order: Au(oz./T)-Ag(oz./T)-Sb(ppm)

4440 0012

Clays from the trench north of Tower pass are mostly kaolinite with minor quartz and mix-layer clay (illite and montmorillonite) with a trace of alunite.

The south part of the Tower clay zone strikes about N. 8 E., is 1800 feet long and 250 feet wide (Plate I). The clay zone crops out beneath silicified volcanic rocks which are 100 to 200 feet thick. Rocks along the walls of steep fractures which transect the silicified rocks are strongly leached which suggests that the fractures may have carried hydrothermal solutions to the surface.

X-ray studies of clay minerals from the south part of the Tower clay zone show that they are a mixture of quartz and kaolinite.

East Clay Zone. - The East clay zone strikes about N. 25 E. and is exposed over a length of 4100 feet. At its south end it is 1500 feet wide where it passes under overburden (Plate II). The zone has a very irregular shape and has a width of 1700 feet at its widest exposure. Talus covers the eastermost part of the zone and it may be up to 2100 feet wide where it is covered by talus.

X-ray studies of clay minerals from the East clay zone show that most of the clays are a mixture of kaolinite and quartz. Others are a mixture of illite-montmorillonite with kaolinite and quartz and kaolinite and quartz with lesser amounts of alunite and calcite. Clay from one sample was mostly dickite with minor quartz.

Siliceous Sinter Deposits

Chalcedonic siliceous sinter deposits cap limestone hills throughout the eastern part of the area (Plate II). The chalcedony is gray on the fresh surface and brown on weathered surfaces. Minor amounts of pyrite are present and produce a rusty brown colour on many outcrops.

Jasperoid

Jasperoid occurs at the Silverton shaft along the Tower Clay zone (Plate I) and in volcanic rocks in the East clay zone (Plate II).

At the Tower clay zone, the principal jasperoid body is about 1300 feet long and is up to 300 feet wide. The rock has a honeycomb texture and is dark gray on outcrop and gray on the fresh surface.

On the East clay zone jasperoid occurs in intensely silicified dacite (Plate II, Sp.41, 15,170 N. - 13,130 E.). Contacts of the jasperoid zone are diffuse and it merges with strongly brecciated, silcified volcanic rocks.

Mineralization

Stibnite occurs in several quartz veins in the East clay zone and in quartz in clay at the road cut southwest of Tower Pass. Sixty samples were cut from bedrock and most contain significant amounts of antimony:

1 to 40 ppm	29 samples
40 to 150 ppm	19 samples
160 to 640 ppm	6 samples
0.27 percent to 13.00 percent (or 2700 ppm to 130,000 ppm)	6 samples

Pyargyrite(?) occurs in jasperoid at the site of the Silverton shaft (Figure 3). Geology of this area is described in other reports (Tompson, 1980, 1981).

Other than these occurrences noted above, metallic mineralization is detected only by assay.

From 65 samples which are shown on maps, the distribution of values for gold and silver are as follows:

Nil	oz.Au/T	4 samples
Tr.-0.005	oz.Au/T	48 samples
0.006-0.010		6
0.011-0.020		4
0.021-0.040		none
greater than 0.040		3
Total		65 samples

Nil	oz.Ag/T	28 samples
0-0.25	oz.Ag/T	33
0.26-0.50		5
0.51-1.00		2
0.01-2.00		1
greater than 2.00		2
Total		65 samples

These samples were all cut from bedrock from several rock types within the map area. Metallic minerals were not observed in any of the samples, with the exception of stibnite as noted above.

RESULTS OF DRILLING IN VOLCANIC ROCKS

Record of Drilling

Two holes were drilled during the period July 13 to July 18, 1982 using a Bettle-Gill track mounted drill with a 10 foot mast. A down-the-hole hammer was used with 3 7/8 inch bit and 3 1/2 inch reverse circulation pipe.

Drill hole 82-1 was inclined at minus 45 degrees, S.10 E. and was drilled to a depth of 460 feet (Plate II). The hole was designed to test the quartz-stibnite-fluorite zone which occurs at surface near coordinates 17,000 N. - 12,600 E. (Plate II).

Drill hole 82-2 was inclined at minus 45 degrees to N.74 W. for the purpose of testing the contact between volcanic rocks and dolomite.

Cuttings were split in a Jones type splitter and 1/8 of the cuttings were saved for assay. The sample interval is 5 feet. Cuttings were collected from each sample for lithologic evaluation.

Geology of Drill Holes

Drill hole 82-1 collared in intensely altered volcanic rocks which are silicified and contain abundant clay. The drill entered dolomite at 245 feet and remained in dolomite throughout, except for a dike(?) at 275 to 280 feet.

Descriptive Log of Drill Hole 82-1

Interval (feet depth)	Description
0 - 35	Volcanic rock with intense clay alteration. Altered rock is white in colour and contains abundant quartz. Some limonite at 25-35.
35 - 95	Volcanic rock, buff colour. Intense clay alteration. Abundant quartz, some subhedral crystals.
95 - 170	Volcanic rock, buff colour, as above but limonite occurs up to 5 percent in some intervals. Also some geothite and some jarosite. Minor jasperoid. Limit of oxidation is 170 feet.
170 - 240	Volcanic rock, white colour. Abundant quartz. Intense clay alteration. Pyrite occurs in amounts from trace to about 0.3 percent. Minor occurrence of dolomite probably reflects presence of lithic inclusions.
240 - 250	Mixed volcanic rocks and dolomite.
250 - 260	Volcanic rocks, white colour with abundant clay.
260 - 275	Dolomite. Pink in colour with some cleavage fragments and some quartz.
275 - 280	Volcanic rocks with intense clay alteration.
280 - 300	Dolomite, gray in colour with some cleavage fragments. Minor pyrite at 295 feet.
300 - 375	Dolomite, pink in colour. Minor hematite occurs from 335 to 370. A soft, gray metallic minerals which occurs at 350 feet - may be stibnite.
375 - 400	Dolomite, gray to pinkish in colour.
400 - 440	Dolomite, white in colour.
440 - 460	Dolomite, light gray to slightly pinkish. End of hole.

Drill hole 82-2 collared in intensely altered volcanic rocks and continued in volcanic rock to a depth of 90 feet where the rock changed to clay for 5 feet and a mixture of clay and crushed rock for 5 feet more. Then the drill entered dolomite and remained mostly in dolomite to 455 feet of depth.

Descriptive Log of Drill Hole 82-2

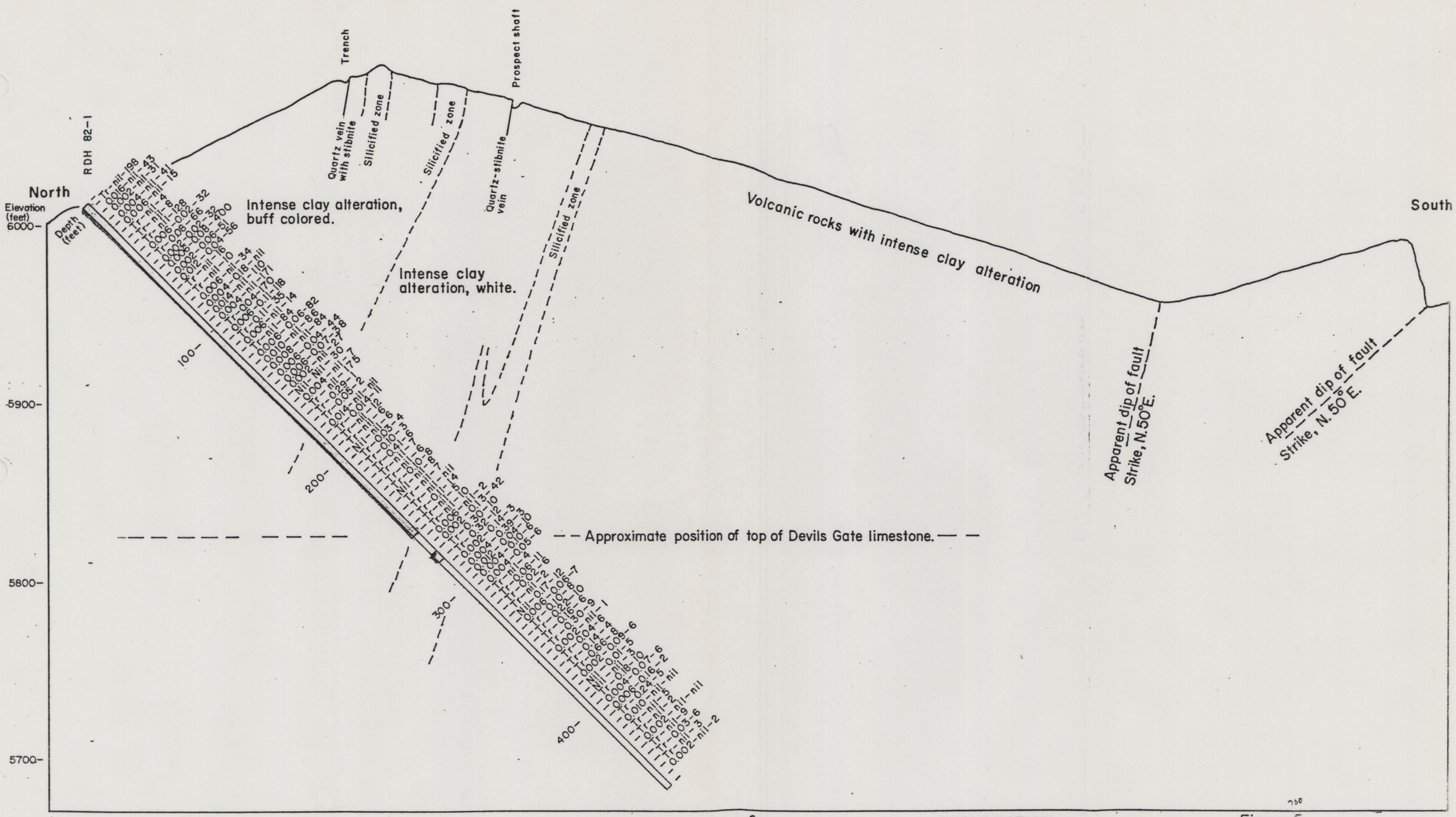
Interval (feet depth)	Description
0 - 30	Volcanic rock with intense clay alteration. Rock is buff colour and contains some siderite with limonite and goethite. Quartz is abundant and some quartz is subhedral.
30 - 45	Volcanic rock with intense clay alteration. Rock is buff colour and contains more limonite and goethite than previous interval, up to 2 percent. Quartz also more abundant.
45 - 50	Volcanic rock with intense clay alteration. Rock is brown colour, abundant quartz and limonite.
50 - 90	Volcanic rock with intense clay alteration. Rock is white colour. Abundant quartz, some jasperoid, trace jarosite.
90 - 95	Volcanic rock is nearly 100 percent clay.
95 - 100	Volcanic rock is about 50 percent clay. Balance is jasperoid with some pink dolomite and limonite.
100 - 110	Mostly jasperoid with some dolomite and limonite and a trace of clay.
110 - 115	No sample
115 - 135	Dark gray dolomite and minor buff coloured dolomite. Some jasperoid and cleavage fragments of dolomite.
135 - 145	Volcanic rock with intense clay alteration. Some dolomite and jasperoid. Cleavage fragments of dolomite.
145 - 160	Dolomitic limestone, light gray colour with calcite cleavage fragments.
160 - 170	Dolomite, dark gray with about 0.5 percent limonite and hematite and some cleavage fragments of dolomite.

Log of Drill Hole 82-2 continued

Interval (feet depth)	Description
170 - 180	Dolomite, light gray with many cleavage fragments.
180 - 185	Sample missing.
185 - 200	Dolomite, light gray with many cleavage fragments.
200 - 215	Dolomite, dark gray
215 - 240	Dolomite, light gray with minor buff coloured clay.
240 - 255	Caving ground, no return, no sample.
255 - 320	Dolomite, various light and dark intersections.
320 - 345	Dolomite, dark colour with dolomite cleavage fragments.
345 - 360	Dolomite, mixed dark and light gray.
360 - 385	Dolomite, dark gray, with minor clay and trace of hematite.
385 - 420	Dolomite, mixed dark and light gray
420 - 440	Dolomite, light gray with dolomite cleavage fragments and some dark dolomite. Some gypsum at 440.
440 - 450	Dolomite, dark gray
450 - 455	No sample. End of hole.

Interpretation of Drill Data

The volcanic rocks are underlain by dolomite at a depth of 100 to 250 feet. At drill hole 82-1, which is collared at 6010 feet elevation (Plate II and Figure 5) dolomite lies at a depth of 260 feet below outcrop or at an elevation of 5845 feet. In drill hole 82-2 the drill collar is at elevation 5845 feet (Plate II and Figure 6). Dolomite lies 90 feet below outcrop at an elevation of 5755 feet. At coordinates 14,000 N. - 13,000 E. (Plate II) dolomite crops out at elevation 5700 feet to 5750 feet and on the east side of the map area (Plate II) dolomite crops out at elevation 5700 feet. Thus it appears that the volcanic rocks of the East Clay zone are



Section Looking N.80°E.

EXPLANATION

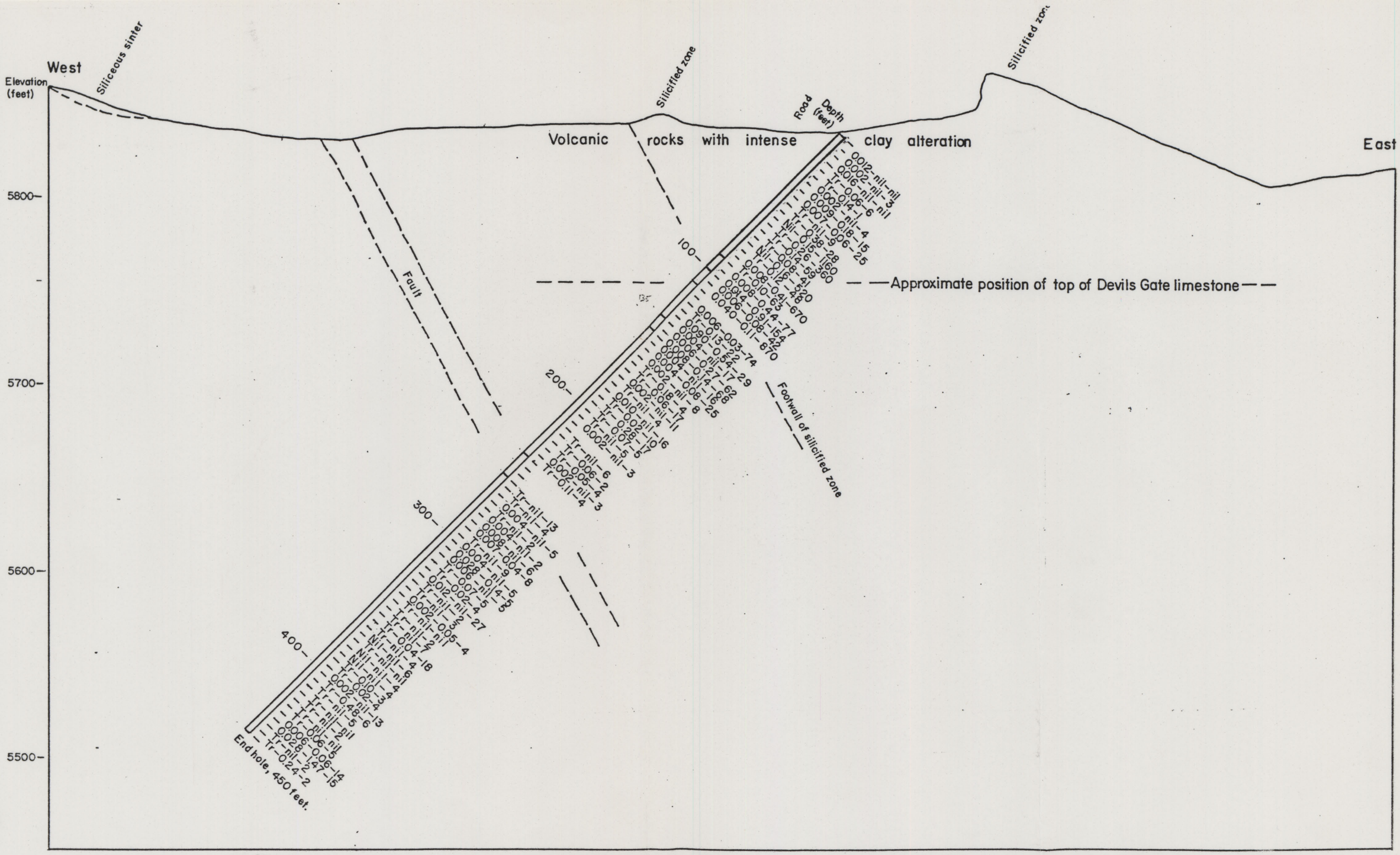
Volcanic rock, intense alteration

Dolomite

Assay order: Au(oz./T)-Ag(oz./T)-Sb(ppm)

Figure 5
Olympic Mining Corp.
Cross Section Through RDH 82-1
Silverton, Nevada
Willard D. Tompson
August 22, 1982
Scale: 1" = 50 ft.

4440 0012



Section Looking N.16° E.

EXPLANATION

Volcanic rock, intense alteration

Dolomite

Jasperoid

Assay order Au(oz./T)-Ag(oz./T)-Sb(ppm)

Figure 6
Olympic Mining Corp.
Cross Section Through RDH82-2
Silverton, Nevada
Willard D. Thompson
September 8, 1982
Scale: [illegible] ft.

4440.0012

underlain by dolomite, the top of which lies at an elevation of about 5750 feet to 5850 feet.

The intense alteration of the volcanic rocks, quartz-stibnite veins, and large silicified zones were produced by hydrothermal solutions which penetrated the dolomite and the volcanic rocks. Principal conduits for the hydrothermal solutions are believed to be fracture systems which strike about N.30 E. and N.70 E. Dips are believed to be mostly to the north and northwest.

CONCLUSIONS

The vein systems and the large silicified zones are important structures which may have functioned in the transportation and concentration of ore minerals.

Large silicified breccia zones which are shown on Plates I and II may be near-surface silica deposits which formed near vents of a hydrothermal system. They lie on strike and easterly from the quartz veins and silicified zones in the area of the East Clay zone, and cover broad areas, the largest of which is nearly 1000 by 2000 feet. They are resistant to weathering and form topographic highs which are up to 250 feet higher than the surrounding terrain.

Alteration of the volcanic rocks at Silverton conforms to the model described by Buchanan (1980). Clay alteration and chalcedonic silicification suggest that Silverton lies near the top of the hydrothermal system.

Gold and silver are nearly ubiquitous in at least trace amounts throughout the volcanic rocks and in jasperoid. Stibnite occurs in quartz veins and antimony occurs in anomalous amounts in the volcanic rocks as shown in surface samples and in the drill holes (Plates I and II and Figures 5 and 6).

nian dolomite underlies the volcanic rocks and the frac systems which transect the volcanic rocks must also trans the dolomite.

ee principal environments exist at Silverton in which ore mi ralization may occur:

1. Quartz veins and silicified zones or ledges which occupy fracture systems in volcanic rocks
2. The contact area between volcanic rocks and underlying dolomite
3. Replacement deposits or fracture filling in dolomite. These may occur in fractures which appear at surface as quartz veins or silicified zones.

RECOMMENDATIONS

The Tower Clay zone and the East Clay zone should be tested with shallow drill holes in order to evaluate mineralized structures to a depth of 500 feet. Rotary drilling will be suitable for most of this work, but some diamond drill holes should also be drilled in order to examine structural detail.

Several deep diamond drill holes are recommended to test the structures at depth. These should be drilled to a depth of up to 3000 feet in order to determine the bottom of the precious metal mineralization.

Willard D. Tompson

Willard D. Tompson

CERTIFICATE

I, Willard D. Tompson of Smithers, British Columbia do hereby certify:

1. That I am a consulting geologist, residing at Van Gaalen Road, Smithers, British Columbia
2. That I hold a Master of Science degree from Montana State University
3. That I have practiced my profession for more than 23 years
4. That I conducted the geological field work and the drill program described herein, during the period of June 6, 1982 to July 22,1982
5. That I have no financial interest in the claims which are described herein.

Willard D. Tompson

Willard D. Tompson
Consulting Geologist

REFERENCES CITED

Bonham, H.F., 1967; Silver producing districts of Nevada: Nevada Bur. Mines, Map 33

Buchanan, L.J., 1980; Ore controls of vertically stacked deposits, Guanajuato, Mexico: Amer. Inst. Mining Engineers Preprint 80-82, 26 pp.

Buchanan, L.J., 1980; Precious metal deposits associated with volcanic environments in the southwest: Society of Mining Engineers of the AIME, preprint

Hubbs, C.L. and Miller, R.R., 1948; The Great Basin with emphasis on glacial and post glacial times: Bull. Univ. Utah, V. 38, no. 20, p. 90-94

Kamilli, R.J., and Ohmoto, H., 1977; Paragenesis, zoning fluid inclusions and isotopic studies of the Finlandia vein, Colqui, Peru: Econ. Geol., v. 72, no.6, p.950-982

Kral, V.E., 1950; Mineral resources of Nye County, Nevada: Nevada Bur. Mines and Geol., Bull.50, Vol.45, no.3

Quinlivan, W.D., Roger, C.L., Doge, Harry W.Jr., 1974; Geologic map of the Portugese Mountain Quadrangle, Nye County, Nevada: U.S. Geol. Survey, Misc. Inv. Series Map I-804

Stewart, John H., 1980; Geology of Nevada: Nevada Bur.Mines and Geol., Spec. Pub. 4

Tompson, Willard D., 1980; Geology of the Silverton Mine, Silverton mining district, Nye County, Nevada: private report for Olympic Oil and Gas, Ltd.

Tompson, Willard D., and Crooker, Grant C., 1981; Geology of the Silverton Mining district, Nye County, Nevada: private report for Olympic Mining Corporation

Westgate, L.G., and Knopf, A., 1932; Geology and ore deposits in the Pioche district, Nevada: U.S. Geol. Survey Prof. Paper 171.

APPENDIX I

Petrographic Descriptions of Rock Specimens
Locations Shown on Plates I and II

PETROGRAPHIC NOTES ON SILVERTON ROCKS

Carbonate Rock

Specimen 73. - This is a silicified carbonate rock. Colitic texture with chalcedonic quartz chiefly in the colites along with sparry calcite (coarse crystalline calcite). Matrix is micrite carbonate.

Volcanic Rock Group

The pre-alteration rock type of all the samples described below is rhyodacite to dacite in composition with some evidence (spike zoning in plagioclase) that they are of magma-mixing origin (probably not significant to the alteration). There is no hard evidence (glass shards nor pumice fragments, or devitrified equivalents) that these are pyroclastic in origin. However, brecciation of quartz and plagioclase phenocrysts suggest some explosive activity - perhaps in the throat of a volcano. The flow layering suggests flow at or near the surface. Similar rocks in the Ely area are both extrusive crystal-lava flows and shallow pipe-like intrusives. Prior to alteration the rocks contained the following phenocrysts: Quartz (still present in all samples unaltered), plagioclase (oligoclase-andesine with zoning), biotite, hornblende, sanidine (note: the occurrence of sanidine with hornblende further suggests magma-mixing). The matrix in some samples was probably glass (vitrophyric) but now is devitrified. In other samples the matrix may have been simple submicroscopic crystalline rather than glass. None of the samples contain pyrite although some jarosite occurs as noted. Most samples have some magnetite (with associated hematite and limonite). Some of this occurs as magmatic-looking grains, other magnetite seems to associate with altered mafic silicates (hornblende especially). The following groups are based

on alteration characteristics since the basic rock type is the same.

Least Altered Rock. Essentially Unaltered.

Specimen 77. - Quartz, plagioclse, biotite, hornblende phenocrysts. No sanidine in this particular section. This is the only hornblende surviving in the entire volcanic rock group. The hornblende is slightly altered to chlorite and clays and has hematite oxidation rims. The matrix has some kaolinite and a few disseminated magnetite grains.

Weakly Altered Rocks

Specimen 71. - Quartz unaltered. Plagioclase is about 50% altered to illite-montmorillonite plus calcite. Biotite has some Fe oxide borders. Sanidine is rare, veinlets of illite-montmorillonite. Hornblende is completely replaced by calcite plus chorite plus clays. Magnetite-hematite is about 1%. Matrix has some kaolinite and limonite, probably originally glassy.

Intensely Altered Rocks

Illite-montmorillonite after plagioclase subgroup (note: the microscopic identification of these clays is an estimate and is compared with kaolinite alteration which is distinct from the higher birefringent illite-montmorillonite).

Specimen 14. - Plagioclase is completely replaced by illite-montmorillonite. More illite-montmorillonite occurs as whispy lenses (suggestive of pumice fragments but not a positive identification). Some illite-montmorillonite probably is replacement of original biotite phenocrysts. Kaolinitic alteration in former hornblende positions. Matrix of rock is clear submicrocrystalline. Quartz phenocrysts survive as in all samples. Jarosite occurs near one edge of the slide.

Specimen 51. - Similar to specimen 14 except that matrix is kaolinitic.

Specimen 66. - Plagioclase altered to illite-montmorillonite but some plagioclase is replaced by kaolinte, making a link with subgroup two below. Matrix contains some spots of kaolinite and some limonite.

Kaolinite after plagioclase subgroup (note: the kaolinite is a very fine-grained, very low birefringent, moderate refractive index mineral, not a positive identification but very probable).

Specimen 22. - Plagioclase replaced by kaolinite. Kaolinite also occurs in matrix, and in replaced mafic silicates. Quartz phenocrysts are well fragmented.

Specimen 34. - Plagioclase altered to the kaolinite plus some calcite. Hornblende completely replaced by calcite and magnetite-hematite. Biotite positions marked by more Fe oxides. Matrix is clear submicrocrystalline with local illite (?) alteration. Magnetite-hematite occurs only at locations of original mafic silicates, no veins.

Specimen 38. - Similar to above except some suggestion of illite alteration of original biotite and hornblende. Also matrix has some kaolinitic alteration.

Weakly to intensely silicified volcanic rocks make up this subgroup.

Specimen 10. - Plagioclase is replaced by kaolinite but also has a border zone of quartz (not all crystals have the border zone). Mafic silicates are replaced by illite(?) chiefly. The matrix is clear submicrocrystalline.

Speicmen 78. - Similar to specimen 10 but the bordering quartz may also occur as blebs in the kaolinite replacing plagioclase. Illite alteration after mafic silicates especially biotite. Magnetite-hematite is 1%. Carbonate (siderite?) has close association with limonite.

Specimen 41. - Plagioclase is altered to kaolinite with bordering quartz. Quartz also occurs in matrix indicating somewhat more intense silicification. Magnetite-hematite occurs especially in association with altered biotite and hornblende. Magnetite-hematite is up to 1%. Jasper fragments occur along with some autoliths (volcanic fragments).

Specimen 42. - This is very similar to specimen 41 except this sample contains two veins of barite.

Specimen 43. - Masses of volcanic rock highly altered to kaolinite plus hematite (spots), plus limonite that is brecciated and surrounded by clear submicrocrystalline matrix. Plagioclase replaced by kaolinite occurs in both matrix and breccia fragments. Jarosite occurs, at least 1%. Silicification quartz in matrix.

Specimen 80. - Plagioclase replaced by kaolinite with bordering quartz. Matrix is highly silicified and kaolinitized. (Note: most of the kaolinite gets plucked out of the plagiocase cores during this sectioning - this is true of the other sections as well).

Specimen 12. - Plagioclase replaced with kaolinite and bordering quartz. Good comb structured quartz with associated carbonate (siderite?). Matrix is clear submicrocrystalline. Minor illite(?) alteration. Limonite tends to be "oolitic". Barite crystal occurs in comb quartz zone. Trace magnetite.

Specimen 18. - Nearly complete silicification. Original quartz phenocrysts have overgrowths of new quartz. Illite-montmorillonite lenses and patches represent original plagioclase and mafics (silicates). Trace of magnetite.

APPENDIX II

Descriptions From X-Ray Studies. Rock Locations Shown on Plates I and II.

X-RAY STUDY OF CLAY MINERALS

Specimen 10. - The majority is quartz with illite-montmorillonite mix-layer clay and trace kaolinite.

Specimen 17. - Essentially mixture of kaolinite and less quartz.

Specimen 19. - The majority is quartz with less kaolinite. Also minor amounts of alunite and calcite are observed.

Specimen 24. - Essentially kaolinite with much less quartz.

Specimen 44. - Essentially dickite with much less quartz.

Specimen 46. - Essentially quartz with minor to trace amounts of kaolinite and illite-montmorillonite mix-layer clay.

Specimen 55. - Essentially quartz and less kaolinite with minor amount of alunite and less calcite.

Specimen 57. - Essentially mixture of quartz and kaolinite

Specimen 61. - Same as specimen 57.

Specimen 63. - Mixture of gibbsite, geothite and quartz with calcite veins.

Specimen 64. - Mixture of hematite, geothite, quartz and calcite; the last one also occurs as veins.

Specimen 69. - Mixture of kaolinite and quartz with trace sericite.

Specimen 75. - Mixture of quartz and kaolinite.

Five samples were collected from the bulldozer trench north of Tower Pass.

Specimen 1. - Essentially quartz with minor kaolinite and mix-layer clay (illite-montmorillonite) and trace alunite.

Specimen 2. - Essentially quartz with minor mix-layer clay.

Specimen 3. - Same as specimen 2.

Specimen 4. - A box-work of silica with minor calcite filling.

Specimen 5. - Fractured dolomite with quartz as impurity and white powdery calcite coating.