PRELIMINARY REPORT

Geology of the Afterthought Area, Walker River Paiute Reservation Mineral County, Nevada

The Afterthought area lies approximately eight miles northwest of Schurz, Nevada, and extends from highway U.S. 95 westwards for three miles, covering approximately 12 square miles. The area is gentle in the Afterthought area itself, but the topography is rugged to the west, especially in the area of Mesa peak. The elevation varies from 4500 feet on the Weber Reservoir road to 5000 feet at the Afterthought shaft, and 6042 feet on Mesa peak. The area is somewhat more complicated than the Calico area to the east, but appears to be an extension of the geologic features.

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Numbers were assigned to the volcanic units as they were mapped, and do not have any age connotation. The age relationships are shown in the geologic column, however some are tentative, especially the volcanic flows and intrusives. Further work in the area to the north and west will probably clarify the correlation of these units.

Pre-Tertiary Rocks

Metamorphics - (M) The Afterthought area appears to have been covered by Mesozoic sediments consisting of shales, shaly limestone, limestones, sand-stones, and limey shales. Some of the limestone have been merely recrystal-dized, keeping its original bedding. These rocks have been metamorphosed to a series of recrystallized limestone, calc-silicates, skarn, schist, slates, and quartzite. These rocks occur in the area of the IP anomaly west of the Afterthought shaft, and around the flanks of the granitic-aplitic intrusive mile to the northeast. They also appear in drill holes AF 1 and 2.

Diorite and Gebbro (Di) - occurs in the area 3,000 feet north of the Afterthought shaft and along the west flank of the granitic-aplitic intrusive, and extend approximately 1 mile west to the base of Mesa peak. It is medium to coarse grained, and varies from gabbro to diorite in composition. One specimen of gabbro taken from the small pit in the saddle and 200 feet east of the road contained 65% plagioclase (andesine), 20-30% hornblende, 5-10% augite, 2-3% biotite, 3-5% chlorite, and traces magnetite, the magnetite replacing fe-mags along crystallographic planes and boundaries. A specimen of diorite 500 feet west of the road contained 60% palgioclase, 15-20% brown hornblende, 2-3% biotite, 5% actinolite, 1-2% chlorite, and with small amount magnetite replacing the fe-mags along crystallographic planes and boundaries. Another specimen of diorite near the road and along the southwest flank of the granitic-aplitic intrusive showed 50% plagioclase, 30% orthoclase, 3-5% biotite, 3-5% actinolite, 10-15% hornblende, and with magnetite replacing the femags. This magnetite occurs interstitial and along crystallographic boundaries. The diorite and gatbro contains varying amounts of magnetite, and in places the rock is magnetic, especially at "O" E-W and 35N. Hematite with traces of copper carbonates occurs in this area, and a small pit has been dug on it in the past. This diorite appears to continue to the west under the overlying tuffs and volcanic flows.

Granodiorite (GD) - occurs in the area of the Afterthought shaft and to the south covering an area of approximately one square mile. It is fine to medium grained and fairly uniform in composition. One specimen taken above the shaft in thin section showed 30% plagioclase, 40% orthoclase, 15% quartz, 7% hornblende, and 1% pyroxene. It has been silicified in some areas, and in places cut by quartz veins containing traces of copper, being slightly altered in these areas. Otherwise the granodiorite shows no wide spread alteration.

Fine-grained intrusive (FGI) - This rock occurs along the northwest flank of the granodiorite, and also across the wash from the Afterthought shaft against the metamorphics. It may be a border facies of the granodiorite, but more likely represents a border facies of a quartz monzonite intrusive later than the granodiorite. - Spatially it is related to the granodiorite and may have been a border facies of it that has been silicified by later solutions. It is separated from the granodiorite by a fault running N 50°E. This rock is intercalated with calc-silicates and skarn of the metamorphics across the wash from the Afterthought shaft, and also in drill holes AF 1 and 2. It contains considerable sulfides in these drill holes near the surface. Thinsections of the core shows this rock to vary from granite to quartz monzonite and diorite (Lawrence, Rept thin-sections, Afterthought Area). This variation probably is partially due to assimilation of country rock at the time of intrusion. One small outcrop in the area of the V21 flow at 350 feet northeast of drill hole AF 3 is completely silicified. In thin section it shows ghost cutlines of feldspar with rims of secondary biotite aound corroded quartz phenocrysts. One large feldspar phenocryst shows pericline twinning.

Quartz monzonite (QM) - This rock outcrops in an area 1,500 feet north of the shaft and along the southwest flank of the granitic-aplitic intrusive. It occurs only as small patches and may be merely local variations of the other intrusives. It is medium to coarse grained, and is usually slightly iron stained with yellow-brown iron oxide. There is a larger area of quartz monzonite, medium to coarse grained, approximately 3,000 feet northeast of Mesa peak in Long Valley, which will be discussed in more detail in the B-6 report.

Granitic and aplitic intrusive (G) — occurs approximately ½ mile north of the Afterthought, and is 2,500 feet long and 1,000 feet wide, being elongated in a northeasterly direction. This rock contains 55% orthoclase and microcline, 20% plagioclase, 5% quartz, 5-10% green hornblende, 3-10% augite, and 1% sphene. Another specimen shows 45% microcline, 2-5% plagioclase, and 30-45% quartz, being alaskitic in composition. This intrusive is usually highly siliceous and fine grained. There are several quartz "blow-outs" around this hill. On the west side it is associated with rose quartz and large crystals of microcline. Numerous veins of quartz cut the diorite to the west, and may be genetically related to this granitic-aplitic intrusive. This granite has metamorphosed the Mesozoic sediments to schists, recrystallized limestone, slates, quartzite, calc-silicates, and skarn. There are numerous small propspects along the contact zone. Antimony has been mined in one prospect (Lawrence, 1963). Copper occurs as green stains and coatings

Lawrence, Edmond F., (1960) Antimony deposits of Nevada, Nevada Bureau of Mines, Bull. 61, p. 124.

in the metamorphics along the flanks of the granite.

Tertiary Rocks

Tuffs (VI) - There is a thick section of tuffs in the Afterthought area varying in composition from crystal tuff, lapilli tuff, vitric tuff, welded tuff to agglomerates, with interbedded vitrophyres and glassy flows. These rocks appears to have covered most of this area at one time, occuring overlying the granodicrite in the basin 1,000 feet east of the Afterthought shaft at an elevation 300 feet above the shaft. This unit is the same as the VI tuff in the Calico area to the east, with local variations in the glassy units. These vitrophyres and glassy flows probably had a local origin. The coloration in the tuff appears to be thermal in origin, and associated with later intrusives and extrusives. It would be possible to work out a detailed section for correlation with the Calico area, but this did not appear desirable in the present investigation. These tuffs are usually well indurated, especially near the intrusives and extrusives. Two horizons in the tuff contain considerable petrified wood.

Andesite flows (V 6, V 21) - These flows and intrusives are similar to the V 6 andesite intrusives in the Calico area. They are composed of up to 40% plagic clase laths and 10-20% hornblende phenocrysts in an aphanitic groundmass.

Rhyolite flows and intrusives (V 8, V 20) - These flows and intrusives occur only as small outcrops along northwesterly faults near U.S. 95. They are aphanitic with occasional phenocrysts of feldspar and quartz, and with flow structure.

Andesite flows and intrusives (V 22) - This unit occurs chiefly west of U.S. 95 and north of the Weber Reservoir road, around the south and east flanks of the granodiorite. It is somewhat similar to the V 21 in composition and texture, but contains less plagicalse phenocrysts. The vents for the flows appear to be in the basin southeast of the Afterthought shaft, and along the south flank. One such plug cuts the granodiorite-V 1 tuff contact, changing the tuff to lavender and greenish in color and the granodiorite to a reddish brown up to 50 feet wide. This V 22 appears to be partially correlative with the V 22 flows.

Andesite flows (V 18) - Thei flow is magnetic, and may account for the magnetic anomaly over U.S. 95. It is dense, dark gray to black, with phenocrysts up to 1/8 inch of hornblende, biotite, and plagicclase, and with 1-2% magnetite.

Andesitic to intermediate flows (V 26) - This unit occurs in the area south and southwest of the mine area. It is usually thin-bedded, with hornblende and plagioclase phenocrysts.

Quaternary Rocks

Basaltic flows (V 37) - Restricted to the northeast side of the area, but similar to V 19 on the southwest side. It is thin-bedded, dense, with occasional plagioclase phenocrysts and magnetic in some areas. Appears to be from a local vent.

Bassitic flow (V 19) - Same as V 37 above, except on southwest side of area.

Trachybasalt (V 29) - This unit occurs 1 mile northwest of the Afterthought

shaft and south of Mesa peak. It is dense, dark gray to black in color, with a glassy matrix.

Andesite flow (V 36) - This unit occurs as a distinct flow 1,000 feet wide and 3,000 feet long, northest of Mesa peak in Long Valley. It is lighter in color than V 35, aphanitic, with a few phenocrysts of plagioclase and hornblende.

Basalt - Andesite flow (V 35) - This flow, overlying V 36 in part, is 100 to 500 feet wide and at least 4,000 feet long. It is dense, black in color, with occasional phenocrysts of plagioclase and hornblende. It is overlained by V 31.

Basic flows - undifferentiated (V 34) - These flows north of Long Valley were not mapped in-detail, but may be correlative with some of the basic flows in this report. They will be described in reports B-6 and C-7.

Andesite and basalt flows and intrusives (V 31) - This unit occurs around Mesa peak and appears to originate in a vent on its side. The basal part of this unit is an agglomerate up to 600 feet thick on the northeast slope of Mesa peak and 50 feet thick on the southwest slope. In places this rock is prophyritic, and partially trachybasalt and trachyandesite. Basalt flows of this unit may account for the aerial magnetic anomaly southwest of Mesa Peak, but probably not account for the larger magnetic anomaly covering the Afterthought area and extending west and southwest of Mesa Peak.

Basalt flows and intrusives (V 30) - This unit occurs co-extensively with V 31, and may be partly intercalated. It is usually dense, black in color, with few phenocrysts, but in places porphyritic, with phenocrysts of plagioclase, sanidine, and hornblende. It contains some andesite and trachybasalt. The vents for these flows appears to be on the side of Mesa peak.

Lacustrine deposits (QS) - Lake sediments, Lahontan in age, occurs along the southwest side of the area, and are up to 280 feet in thickness. They contain a vitric tuff bed that has been mined for pumice, and used locally for pumice blocks. These beds have been tilted and faulted. They extend within 2,500 feet of the Afterthought shaft, to an elevation of 4800 feet.

Alluvium and Sand (Al, S) - Much of the area of interest is obscured by alluvium and wind-blown sand.

Structure

This area lies along the same strike-slip fault zone as the Bounder, Hottentot, and Calico previously mapped and described (1966, Calico Report, Walker Martel files; 1965, Hottentot Report, ATME meeting, Reno). Faulting along this zone since Miocene time appears to be in the order of 2,000 feet with a right lateral movement. Movement of this magnitude could not be detected in the Calico and Afterthought areas. However there is evidence of smaller increments of movement of a right lateral nature in this area. These N 20°N to N 40°N faults are off-set in places by northeasterly faults, part of which is left lateral. This northeasterly set of faults may be equally important in the Afterthought area. There is some evidence that these faults have step-faulted the granitic rocks downwards to the east

towards the Calico area. These two sets of faults mutually cut each other. The IP anomaly in the Afterthought area appears to be along such a N 50°E structure, and the granitic-aplitic intrusive is elongated northeasterly between a N 40°E and a N 50°E fault. Both sets of faults cut the Lahontan lake sediments, with displacements up to 20 feet. There is some evidence of movement along the N 40°W faults in the past few years.

There is a strong possibility that this northwesterly-trending zone has been the structural control for the emplacement of the Mesozoic granitic bcdies as well as the Tertiary intrusives and extrusives, and the Quaternary vents and flows. The Calico area appears to have been a center of volcanic activity throughout Tertiart and Quaternary time, while the Mesa peak area appears to have been most active in late Tertiary and Quaternary time.

Doming and other features might be suspected, but must await further study of the areas to the west and north.

Summary

The Afterthought area lies in an area of Mesozoic, intruded by a series of granitic and aphanitic igneous rocks, metamorphosing the sediments to a series of schists, slates, recrystallized limestone, calc-silicates, and skarn. The igneous complex consists of gabbro, diorite, granodiorite, quartz monzonite, fine-grained intrusive(?), granite, alaskite, and pegmatite. These rocks are probably an extension of the dioritic bodies of the Calico area, and may represent a topographic high in Tertiary time. The differentiation of this magma may have provided a mineral-rich solution to form an ore-deposit. The area immediately west of the Afterthought shaft provides a good environment and structural centrol for such a deposit. IP data indicates an anomaly along this zone, and recent IP work (Oral Com., Redmond) indicates this anomaly bends around to the south. Exploration to the north across the granitic and dioritic areas with IP produced weak to negative results.

Drilling in this area at AF 1, 2, and 3 drill holes indicates interesting mineralization, confirming the ealrier IP enomalies, although not of economic significance. Further drilling should be done in this area and to the southwest and south along the anomaly to adequately test it.

Edmond F. Lawrence

Mining Geologist Reno, Nevada

April 16, 1966

Afterthought

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Reports on Walker Indian Reservation- Borrowed by the Bureau of Mines

- 1. Property Evaluation, by R.J. Garcia, 8/29/63
 - 2. Report on the Induced Polarization and Resistivity Survey on the Calico and Hottentot Prospects, Walker River Area, Paiute Reservation, Nevada, 10/10/63
- 3. Report on the Induced Polarization and Resistivity Survey on the Hottentot Prospect, Walker River Area, Paiute Reservation, Nevada, 3/6/64
- 4. Report on Induced Polarization and Resistivity Surveys, Walker Rivar Area, Paiute Reservation, Nevada, 8/13/64
 - 5. Report on the Induced Polarization and Resistivity Survey on the Bounder Prospect, Mineral County, Nevada, 3/20/64
 - X 6. Supplement to Report on the Induced Polarization and Resistivity on the Bounder Prospect, Mineral County, Nevada, 7/28/66
- 7. Projects: Afterthought, Bounder (CU Claims), Copper Hill (Delta Claims), Wild Horse Canyon (RHO Claims), 1965 Under Separate cover
 - \times \times 9. Calico and West Calico Projects, 2/13/66, Mcphar Geophysics Ltd.
 - \bigvee 10. Little Calico: Induced Polarization, 7/28/66, Mcphar Geophysics Ltd.
 - X 11. Supplementary Report on the Further Induced Polarization Results from the Calico Prospect and the Little Calico Prospect, Mineral County, Nevada, 7/28/66, Mcphar Geophysics Ltd.
- 12. Supplementary Report on the Induced Polarization and Resistivity Results from the Afterthought Prospect, Mineral County, Nevada, 2/23/66, Mcphar Geophysics Ltd.
 - 13. Report on the Induced Polarization and Resistivity Survey at the Copper Hill Prospect and Wild Horse Canyon Prospect, Mineral County, Nevada, Mcphar Geophysics Ltd., 2/23/66
 - 14. Memorandum on the Induced Polarization Results from Aspiring Prospect, West Calico Prospect and Badger Prospect for Walker-Martel Co., 2/23/66, Mcphar Geophysics Ltd.
 - 15. Report on Beneficiation of a Magnetite-Pyrrhotite-Chalcopyrite Ore for Walker-Martel Mining Co., Project No. 260211, 4/8/66, M.P. Jameson, Project Engineer, Colorado School of Mines
 - 16. Seismic Refraction Study, Calico Area, J. Cooksley, Jr., 9/66
 - 17. Analysis of Geophysical Data from the Walker Indian Reservation, Mineral County, Nevada, 11/25/66, by John S. Sumner
 - X 18. Inferred Iron Ore Reserves for the Calico Prospect, Walker Reservation, Nevada, 12/66, by Ron Haxby
 - 20. Possible Mineralized Areas as Indicated by Aerial Magnetics, Walker-Martel Mining Co., 3/27/67, by Robert L. Redmond

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Included in Redmond Copy of
Warch 1967/ Calico & W. Calico
Arojects

- 21. Walker Reservation Geology, by Ed Lawrence, March 1967

X22. Hottentot Complex, 4/19/68, R.L. Redmond

- 23. Interpretation of Aeromagnetic Data in West-Central Nevada(Project No. 1) Feb. 1969, Huntec Ltd.
 - 24. Review of all Geophysical Data, Calico Prospect, Schurz, Mineral County, Nevada, by Chas L. Elliot, 4/10/69
 - 25. Interpretation of Airborne Magnetic Data, Calico Area, Schurz, Mineral County,
 - X >26. Ground Magnetic Survey, Black Eagle North Area, Churchill County, Nevada, by Charles L. Elliot, 5/16/70
 - 27. Geophysical Evaluation of the Hottentot Prospect, Walker River Indian Reservation Mineral County, Nevada, by Elliot Geophysical Co., 6/1/70
 - (LLX) 29. Ore Reserves on the Walker Reservation by S. Sargis, 5/11/66
 - \times X 30. Induced Polarization and Resistivity Survey, Calico Hills Area, Little Calico and Black South, Mineral County, Nevada, by Canadian Aero Mineral Surveys, Ltd. 3/16/70
 - 33. Interpretation of Induced Polarization, Resistivity and Ground Magnetic Data, Black Eagle South Area, Walker River Indian Reservation, Mineral County, Nevada, by Elliot Geophysical Co., 5/30/70
 - 34. A Geophysical Report on Induced Polarization Surveys, Calico Prospect and Copper Hill Prospect, Walker Indian Reservation, Nevada by W.A.Finney, May 1969
 - ackslash35. Interpretation of Airborne Magnetic Data, Walker Indian Reservation, Mineral County, Nevada, by Charles L. Elliot, 12/19/69
 - X 36. Copper Hill: Induced Polarization, 7/28/66, Mcphar.
- 37. Induced Polarizatio and Resistivity Survey, Calico Hills, Afterthought and Weber Reservoir Areas, Mineral and Lyon Counties, Nevada by Mining Geophysical Surveys
 - 39. Calico Iron Pellet Study, Colorado School of Mines, 12/70
 - 40. Unpublished Reports by Holt, 2/25/66

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TO:

FILES

FROM:

WLW

RE:

W.R.P.R. AFTERTHOUGHT PROSPECT

Date:

October 25, 1979

A significant amount of drilling had been done previously by Walker-Martel on this prospect; however, little of economic interest was indicated by this drilling. The following information was developed by Idaho:

- 1. In 1974, Idaho drilled a number of shallow holes to attempt to better define the suspected buried mineralization. These were labeled AF-7 through AF-20.
- 2. Gamma logs of holes AF-6, AF-8, AF-10, AF-11, AF-15, AF-17, AF-18, AF-19 and AF-20 were run (copies attached). These were the only holes open at that time.
- Copies of the Driller's logs for these holes are attached.
- 4. Hole numbers AF-7 through AF-18 were drilled on an induced polarization anomaly, and their location is shown on one of the attached maps, utilizing the McPhar IP map for a base.

- 5. Holes 19 and 20 were drilled on magnetic anomalies, and their location is shown on a separate magnetic map.
- 6. Geochemical analyses of the drill cuttings are attached. We were not encouraged by the results of this drilling, and thereafter abandoned the prospect.
- 7. Geochem analysis of selected sections of previously drilled holes AF-1, AF-2, AF-3 and AF-4 was performed.
 Results are attached.

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SUPPLEMENTARY REPORT

ON THE

INDUCED POLARIZATION

AND RESISTIVITY RESULTS

FROM THE

AFTERTHOUGHT PROSPECT

MINERAL COUNTY, NEVADA

FOR

WALKER-MARTEL MINING COMPANY

1. INTRODUCTION

A previous report dated August 13, 1964 describes the original IP results from the Afterthought Area. A definite anomaly was outlined, and the zone has been tested with two vertical drill holes on Line 3+00E. Sulphide mineralization was intersected in both drill holes; some copper was present, but not in enough quantity to be of economic interest.

The original results from the Afterthought did not determine the strike length of the zone. The rocks, alteration and mineralization intersected on Line 3+00E could indicate the nearby presence of mineralization of more economic interest. The measurements described in this report were made to determine the strike length, and the character, of the zone.

2. PRESENTATION OF RESULTS

The induced polarization and resistivity results are shown on the

following enclosed data plots. The results are plotted in the manner described in the notes preceding this report.

Scarn Line	200' electrode intervals	Dwg. IP1
Line 27E	500' electrode intervals	Dwg. IP2
Line 21E	500' electrode intervals	Dwg. IP3
Line 15E	500' electrode intervals	Dwg. IP4
Line 15W	500' electrode intervals	Dwg. IP5
Line 18W	500' electrode intervals	Dwg. IP6
Line 21W	500' electrode intervals	Dwg. IP7
Line 27W	500' electrode intervals	Dwg. IP8
Line 33W	500' electrode intervals	Dwg. IP9

Also enclosed with this report is Dwg. Misc. _____, a plan map of the Afterthought Prospect Area. The definite and possible induced polarization anomalies are indicated by solid and broken bars respectively on this plan map as well as the data plots. These bars represent the surface projection of the anomalous zones as interpreted from the location of the transmitter and receiver electrodes when the anomalous values were measured.

Since the induced polarization measurement is essentially an averaging process, as are all potential methods, it is frequently difficult to exactly pinpoint the source of an anomaly. Certainly, no anomaly can be located with more accuracy than the spread length; i. e. when using 500' spreads the position of a narrow sulphide body can only be determined to lie between two stations 500' apart. In order to locate sources at some depth, larger spreads must be used, with a corresponding increase in the uncertainties

of location. Therefore, while the center of the indicated anomaly probably corresponds fairly well with source, the length of the indicated anomaly along the line should not be taken to represent the exact edges of the anomalous material.

3. DISCUSSION OF RESULTS

The IP results from this survey show that the mineralized zone at the Afterhtought extends from Line 21E to at least Line 33W. The source is therefore at least a mile long. It seems fairly clear that further drilling on other lines is necessary before the zone can be dismissed as being unimportant.

There are no anomalous effects on Line 27E, and the anomaly on Line 21E is not definite. On Line 21E, the pattern suggests a relatively broad zone of weak mineralization. To the west, the anomaly is of larger magnitude, and more definite.

The patterns suggest a zone of more disseminated mineralization with local zones of more concentrated mineralization. The drilling on Line 3+00E confirms this type of mineralization, although there is perhaps not as much concentrated mineralization as would be expected. However, vertical holes were used for the drilling and the sampling may not have been complete.

The narrow, large magnitude part of the anomaly appears to be striking slightly south of west. On Line 21W the source appears to be strong, and relatively narrow. The tabular source would be centered at about 5S.

A second source is indicated to be at considerable depth at about 30S on this line. Recent sediments cover the surface in this area, and the apparent

resistivities are low. The surface rocks may also be the reason for the depth indicated.

On Line 27W, the entire area is covered by recent sediments. The anomalous pattern still shows the two sources, although there could be just one broad anomaly. Both sources appear to be at considerable depth, although the source centered at 10S to 5S could have ended to the east.

The only anomaly on Line 33W is centered at 25S to 20S; this position correlates best with the southern anomaly on the lines to the east.

The source is indicated to be at considerable depth, but since 1.25 cps was used for the measurement there is no difficulty from inductive coupling. The depth to the top of the source may be as 1.5 electrode intervals; i. e. 750 feet.

4. CONCLUSIONS AND RECOMMENDATIONS

These further results show that the anomalous zone at the After-thought is at least a mile long. To the east the source terminates at about Line 21E; to the west the source is double, and is very deep in the sediment covered area west of Line 33W.

On Line 21W, the source appears to be stronger, and of less width, then on Line 3+00E. Further drilling is recommended on this line.

Angle holes would be desirable, but if vertical holes are necessary, the first hole should be at 4+00S. The next holes should be 200 to 250 feet to the north and south. The source of the strong IP effects is at moderate depth, so that the holes should only go to 500 feet.

The source at depth to the south also warrants a drill hole, probably on Line 33W where it is strong. The first hole should be at about

- 5 -

22+50S. The source is at considerable depth, and the holes should go to a depth of 900 to 1,000 feet; however, rotary drilling can be used in the overburden to reduce the cost.

The drilling recommended above is planned to complete a thorough testing of the anomalous zone at the Afterthought Prospect. Further drilling will depend upon the economic interest of the mineralization intersected in the holes planned.

McPHAR GEOPHYSICS LIMITED

Philip G. Hallof, Geophysicist.

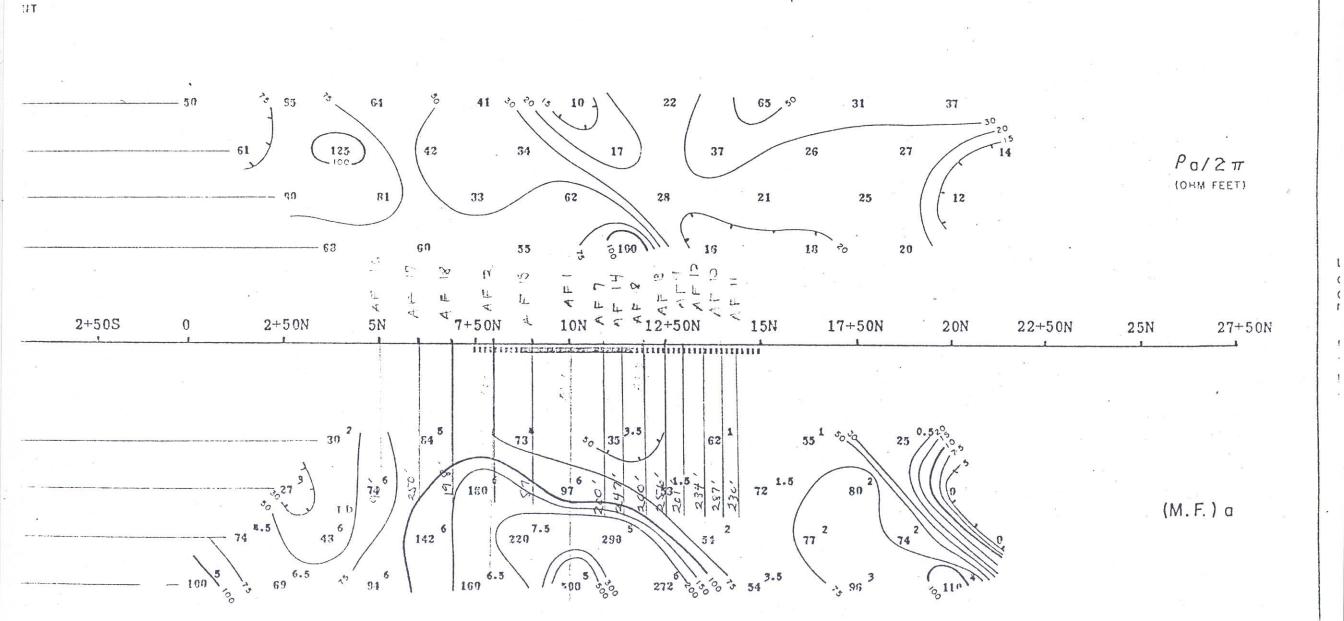
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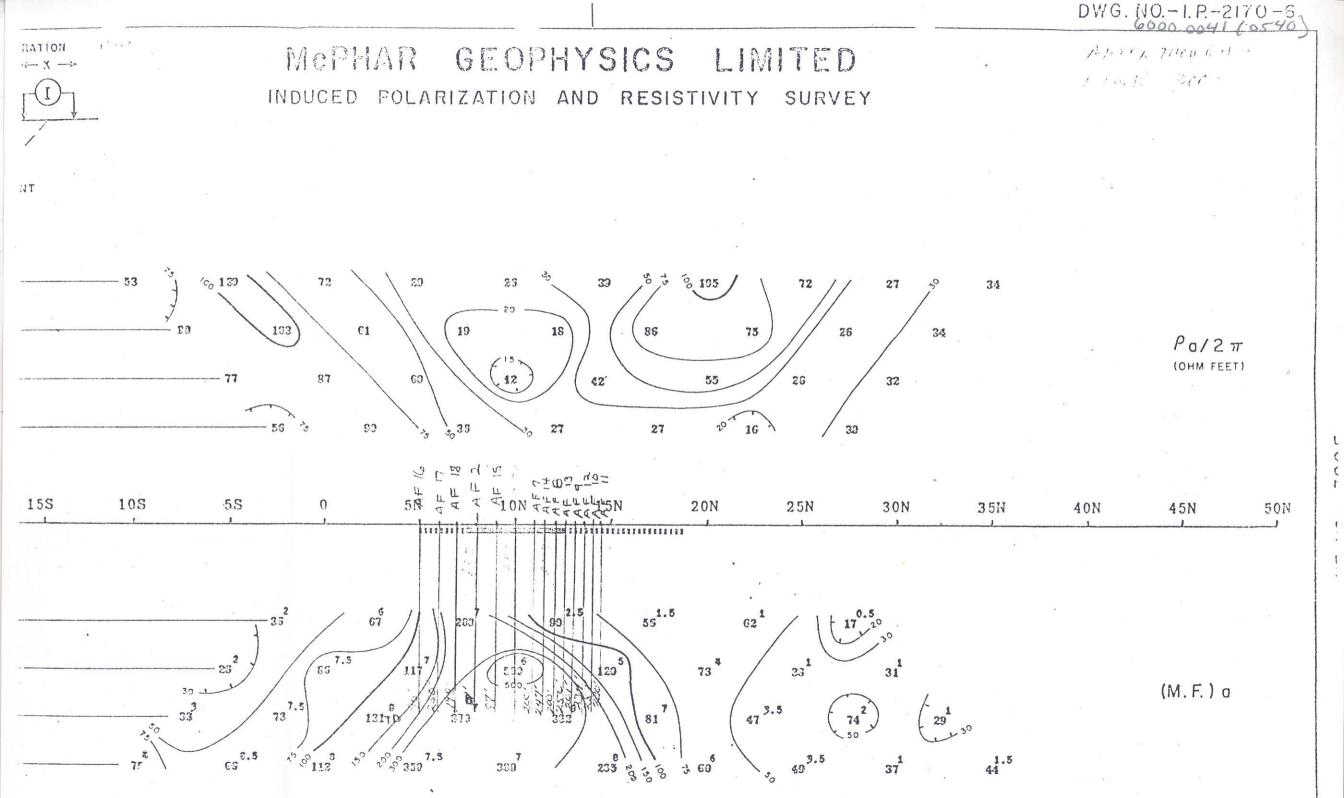
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INDUCED POLARIZATION AND RESISTIVITY SURVEY

AFTER THEORY





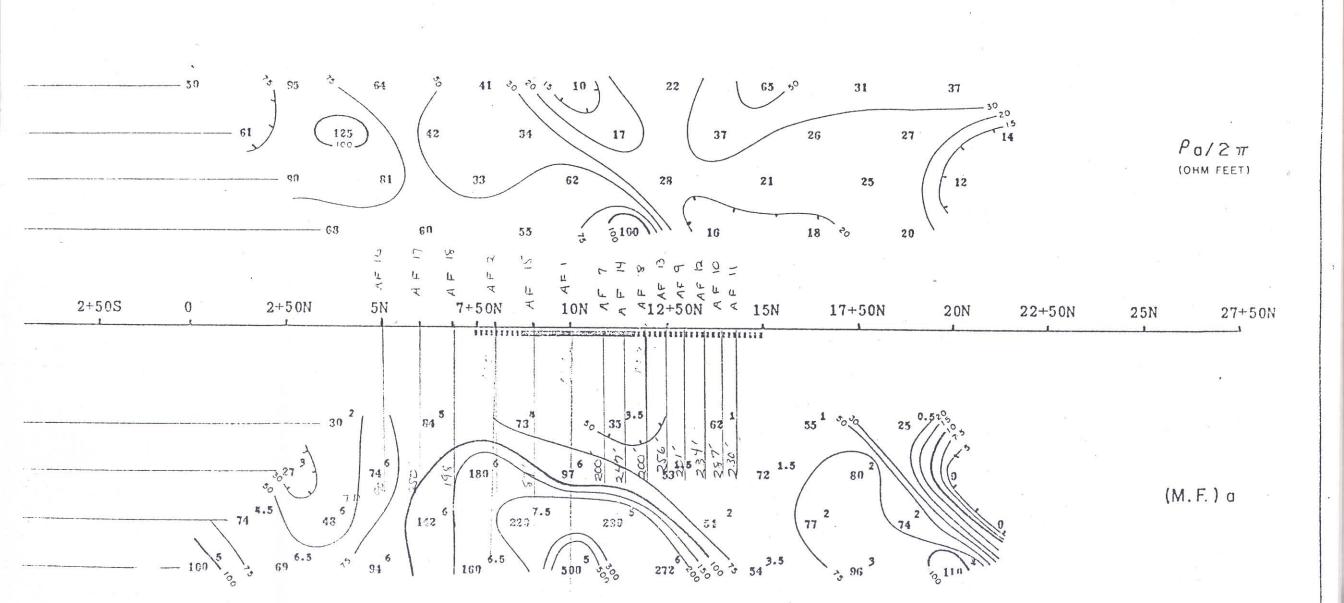
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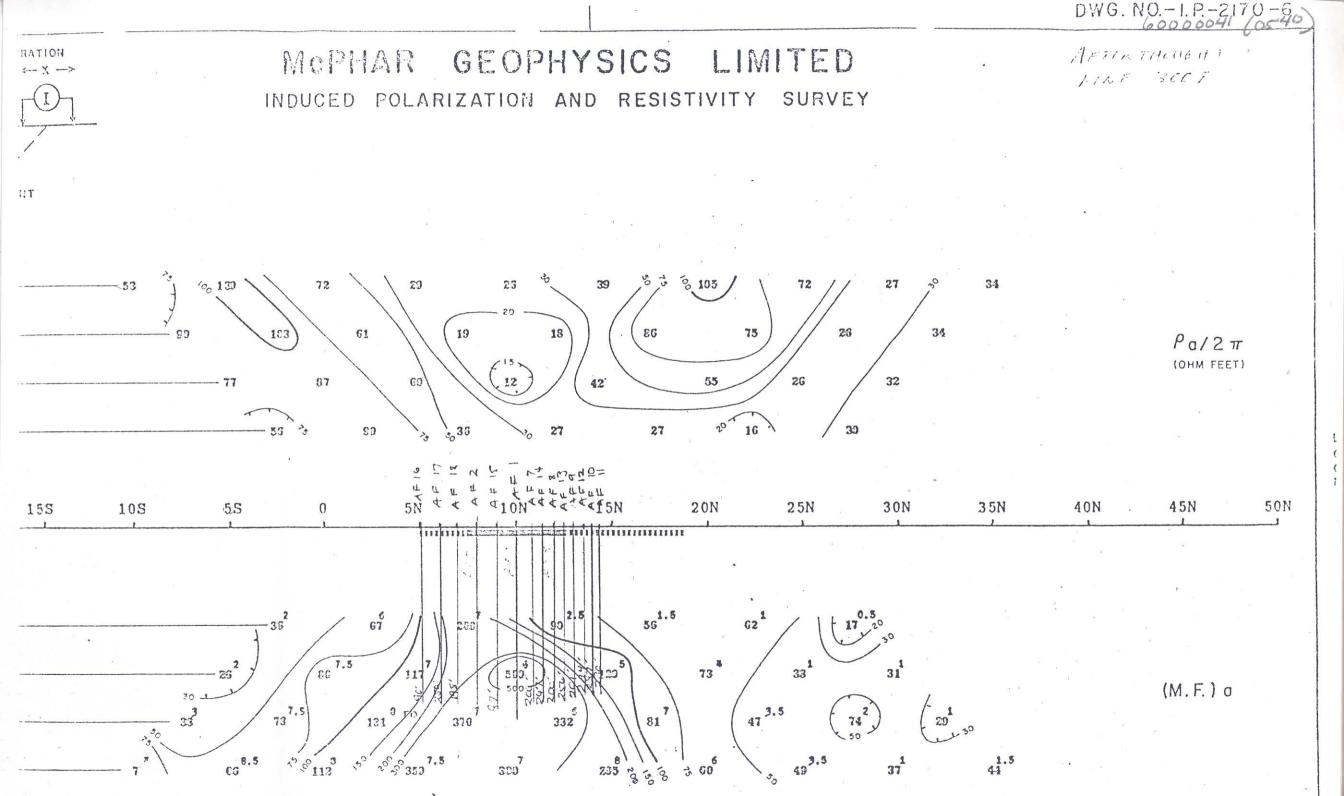
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INDUCED POLARIZATION AND RESISTIVITY SURVEY

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PRELIMINARY REPORT

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Numbers were assigned to the volcanic units as they were mapped, and do not have any age connotation. The age relationships are shown in the geologic column, however some are tentative, especially the volcanic flows and intrusives. Further work in the area to the north and west will probably clarify the correlation of these units.

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Metamorphics - (M) The Afterthought area appears to have been covered by Mesozoic sediments consisting of shales, shaly limestone, limestones, sandstones, and limey shales. Some of the limestone have been merely recrystallized, keeping its original bedding. These rocks have been metamorphosed to a series of recrystallized limestone, calc-silicates, skarn, schist, slates, and quartzite. These rocks occur in the area of the IP anomaly west of the Afterthought shaft, and around the flanks of the granitic-aplitic intrusive in in the area of the IP anomaly west of the Afterthought shaft, and around the flanks of the granitic-aplitic intrusive in the northeast. They also appear in drill holes AF 1 and 2.

Diorite and Gabbro (Di) - occurs in the area 3,000 feet north of the Afterthought shaft and along the west flank of the granitic-aplitic intrusive, and extend approximately ! mile west to the base of Mesa peak. It is medium to coarse grained, and varies from gabbro to diorite in composition. One specimen of gabbro taken from the small pit in the saddle and 200 feet east of the road contained 65% plagioclase (andesine), 20-30% hornblende, 5-10% augite, 2-3% biotite, 3-5% chlorite, and traces magnetite, the magnetite replacing fe-mags along crystallographic planes and boundaries. A specimen of diorite 500 feet west of the road contained 60% palgioclase, 15-20% brown hornblende, 2-3% biotite, 5% actinolite, 1-2% chlorite, and with small amount magnetite replacing the fe-mags along crystallographic planes and boundaries. Another specimen of diorite near the road and along the southwest flank of the granitic-aplitic intrusive showed 50% plagioclase, 30% orthoclase, 3-5% biotite, 3-5% actimolite, 10-15% hornblende, and with magnetite replacing the femage. This magnetite occurs interstitial and along crystallographic boundaries. The diorite and gathro contains varying amounts of magnetite, and in places the rock is magnetic, especially at "O" E-W and 35N. Hematite with traces of copper carbonates occurs in this area, and a small pit has been dug on it in the past. This diorite appears to continue to the west under the overlying tuffs and volcanic flows.

Granodiorite (GD) - occurs in the area of the Afterthought shaft and to the south covering an area of approximately one square mile. It is fine to medium grained and fairly uniform in composition. One specimen taken above the shaft in thin section showed 30% plagioclase, 40% orthoclase, 15% quartz, 7% hornblende, and 1% pyroxene. It has been silicified in some areas, and in places cut by quartz veins containing traces of copper, being slightly altered in these areas. Otherwise the granodiorite shows no wide spread alteration.

Fine-grained intrusive (FGI) - This rock occurs along the northwest flank of the granodicrite, and also across the wash from the Afterthought shaft against the metamorphics. It may be a border facies of the granodiorite, but more likely represents a border facies of a quartz monzonite intrusive later than the granodiorite. Spatially it is related to the granodiorite and may have been a border facies of it that has been silicified by later solutions. It is separated from the granodiorite by a fault running N 50°E. This rock is intercalated with calc-silicates and skarn of the metamorphics across the wash from the Afterthought shaft, and also in drill holes AF 1 and 2. It contains considerable sulfides in these drill holes near the surface. Thinsections of the core shows this rock to vary from granite to quartz monzonite and diorite (Lawrence, Rept thin-sections, Afterthought Area). This variation probably is partially due to assimilation of country rock at the time of intrusion. One small outcrop in the area of the V21 flow at 350 feet northeast of drill hole AF 3 is completely silicified. In thin section it shows ghost cutlines of feldspar with rims of secondary biotite aound corroded quartz phenocrysts. One large feldspar phenocryst shows pericline twinning.

Quartz monzonite (QM) - This rock outcrops in an area 1,500 feet north of the shaft and along the southwest flank of the granitic-aplitic intrusive. It occurs only as small patches and may be merely local variations of the other intrusives. It is medium to coarse grained, and is usually slightly iron stained with yellow-brown iron oxide. There is a larger area of quartz monzonite, medium to coarse grained, approximately 3,000 feet northeast of Mesa peak in Long Valley, which will be discussed in more detail in the B-6 report.

Granitic and aplitic intrusive (G) — occurs approximately ½ mile north of the Afterthought, and is 2,500 feet long and 1,000 feet wide, being elongated in a northeasterly direction. This rock contains 55% orthoclase and microcline, 20% plagioclase, 5% quartz, 5-10% green hornblende, 3-10% augite, and 1% sphene. Another specimen shows 45% microcline, 2-5% plagioclase, and 30-45% quartz, being alaskitic in composition. This intrusive is usually highly siliceous and fine grained. There are several quartz "blow-outs" around this hill. On the west side it is associated with rose quartz and large crystals of microcline. Numerous veins of quartz cut the diorite to the west, and may be genetically related to this granitic-aplitic intrusive. This granite has metamorphosed the Mesozoic sediments to schists, recrystallized limestone, slates, quartzite, calc-silicates, and skarn. There are numerous small propspects along the contact zone. Antimony has been mined in one prospect (Lawrence, 1963). Copper occurs as green stains and coatings

Lawrence, Edmond F., (1960) Antimony deposits of Nevada, Nevada Bureau of Mines, Bull. 61, p. 124.

in the metamorphics along the flanks of the granite.

Tertiary Rocks

Tuffs (V1) - There is a thick section of tuffs in the Afterthought area varying in composition from crystal tuff, lapilli tuff, vitric tuff, walded tuff to agglomerates, with interbedded vitrophyres and glassy flows. These rocks appears to have covered most of this area at one time, occuring overlying the granodicrite in the basin 1,000 feet east of the Afterthought shaft at an elevation 300 feet above the shaft. This unit is the same as the V1 tuff in the Calico area to the cast, with local variations in the glassy units. These vitrophyres and glassy flows probably had a local origin. The coloration in the tuff appears to be thermal in origin, and associated with later intrusives and extrusives. It would be possible to work out a detailed section for correlation with the Calico area, but this did not appear desirable in the present investigation. These tuffs are usually well indurated, especially near the intrusives and extrusives. Two horizons in the tuff contain considerable petrified wood.

Andesite flows (V 5. V 21) - These flows and intrusives are similar to the V 5 andesite intrusives in the Calico area. They are composed of up to 40% plagic clase laths and 10-20% hornblende phenocrysts in an aphanitic ground-mass.

Rhyolite flows and intrusives (V 8, V 20) - These flows and intrusives occur only as small outcrops along northwesterly faults near U.S. 95. They are aphanitic with occasional phenocrysts of feldspar and quartz, and with flow structure.

Andesite flows and intrusives (V 22) - This unit occurs chiefly west of U.S. 95 and north of the Weber Reservoir road, around the south and east flanks of the granodiorite. It is somewhat similar to the V 21 in composition and texture, but contains less plagicalse phenocrysts. The vents for the flows appear to be in the basin southeast of the Afterthought shaft, and along the south flank. One such plug cuts the granodiorite—V 1 tuff contact, changing the tuff to lavender and greenish in color and the granodiorite to a reddish brown up to 50 feet wide. This V 22 appears to be partially correlative with the V 22 flows.

Andesite flows (V 18) - Thei flow is magnetic, and may account for the magnetic anomaly over U.S. 95. It is dense, dark gray to black, with phenocrysts up to 1/8 inch of hornblende, biotite, and plagioclase, and with 1-2% magnetite.

Andesitic to intermediate flows (V 26) - This unit occurs in the area south and southwest of the mine area. It is usually thin-bedded, with hornblende and plagioclase phenocrysts.

Quaternary Rocks

Basaltic flows (V 37) - Restricted to the northeast side of the area, but similar to V 19 on the southwest side. It is thin-bedded, dense, with occasional plagioclase phenocrysts and magnetic in some areas. Appears to be from a local vent.

Basaltic flow (V 19) - Same 23 V 37 above, except on southwest side of area.

Trachybasalt (V 29) - This unit occurs I mile northwest of the Afterthought

shaft and south of Mesa peak. It is dense, dark gray to black in color, with a glassy matrix.

Andesite flow (V 36) - This unit occurs as a distinct flow 1,000 feet wide and 3,000 feet long, northest of Mesa peak in Long Valley. It is lighter in color than V 35, aphanitic, with a few phenocrysts of plagicclass and hornblende.

<u>Basalt - Andesite flow (V 35)</u> - This flow, overlying V 36 in part, is 100 to 500 feet wide and at least 4,000 feet long. It is dense, black in color, with occasional phenocrysts of plagic clase and hornblende. It is overlained by V 31.

Basic flows - undifferentiated (V 34) - These flows north of Long Valley were not mapped in detail, but may be correlative with some of the basic flows in this report. They will be described in reports B-6 and C-7.

Andesite and basalt flows and intrusives (V 31) - This unit occurs around Mesa peak and appears to originate in a vent on its side. The basal part of this unit is an agglomerate up to 600 feet thick on the northeast slope of Mesa peak and 50 feet thick on the southwest slope. In places this rock is prophyritic, and partially trachybasalt and trachyandesite. Basalt flows of this unit may account for the aerial magnetic anomaly southwest of Mesa Peak, but probably not account for the larger magnetic anomaly covering the Afterthought area and extending west and southwest of Mesa Peak.

Basalt flows and intrusives (V 30) - This unit occurs co-extensively with V 31, and may be partly intercalated. It is usually dense, black in color, with few phenocrysts, but in places porphyritic, with phenocrysts of plagioclase, sanidine, and hornblende. It contains some andesite and trachybasalt. The vents for these flows appears to be on the side of Mesa peak.

Lacustrine deposits (QS) - Lake sediments, Lahontan in age, occurs along the southwest side of the area, and are up to 280 feet in thickness. They contain a vitric tuff bed that has been mined for pumice, and used locally for pumice blocks. These beds have been tilted and faulted. They extend within 2,500 feet of the Afterthought shaft, to an elevation of 4800 feet.

Alluvium and Sand (Al, S) - Much of the area of interest is obscured by alluvium and wind-blown sand.

Structure

This area lies along the same strike-slip fault zone as the Bounder, Hottentot, and Calico previously mapped and described (1966, Calico Report, Walker Martel files; 1965, Hottentot Report, ATME meeting, Reno). Faulting along this zone since Miocene time appears to be in the order of 2,000 feet with a right lateral movement. Movement of this magnitude could not be detected in the Calico and Afterthought areas. However there is evidence of smaller increments of movement of a right lateral nature in this area. These N 200N to N 400N faults are off-set in places by northeasterly faults, part of which is left lateral. This northeasterly set of faults may be equally important in the Afterthought area. There is some evidence that these faults have step-faulted the granitic rocks downwards to the east

towards the Calico area. These two sets of faults mutually cut each other. The IP anomaly in the Afterthought area appears to be along such a N 500E structure, and the granitic-aplitic intrusive is elongated northeasterly between a N 400E and a N 500E fault. Both sets of faults cut the Lahontan lake sediments, with displacements up to 20 feet. There is some evidence of movement along the N 400W faults in the past few years.

There is a strong possibility that this northwesterly-trending zone has been the structural control for the emplacement of the Mesozoic granitic bodies as well as the Tertiary intrusives and extrusives, and the Quaternary vents and flows. The Calico area appears to have been a center of volcanic activity throughout Tertiart and Quaternary time, while the Mesa peak area appears to have been most active in late Tertiary and Quaternary time.

Doming and other features might be suspected, but must await further study of the areas to the west and north.

Summary

The Afterthought area lies in an area of Mesozoic, intruded by a series of granitic and aphanitic igneous rocks, metamorphosing the sediments to a series of schists, slates, recrystallized limestone, calcilicates, and skarn. The igneous complex consists of gabbro, diorite, granodiorite, quartz monzonite, fine-grained intrusive(?), granite, alaskite, and pegmatite. These rocks are probably an extension of the dioritic bodies of the Calico area, and may represent a topographic high in Tertiary time. The differentiation of this magma may have provided a mineral-rich solution to form an ore-deposit. The area immediately west of the Afterthought shaft provides a good environment and structural control for such a deposit. IP data indicates an anomaly along this zone, and recent IP work (Oral Com., Redmond) indicates this anomaly bends around to the south. Exploration to the north across the granitic and dioritic areas with IP produced weak to negative results.

Drilling in this area at AF 1, 2, and 3 drill holes indicates interesting mineralization, confirming the ealrier IP anomalies, although not of economic significance. Further drilling should be done in this area and to the southwest and south along the anomaly to adequately test it.

Mining Geologist

Reno, Nevada

April 16, 1966

MEMORANDUM

From: WLW To: Kay

Re: Afterthought

On July 22nd, we visited the Afterthought and staked out some drill holes North and South of Drill Hole AF-3. We also decided to run geochem for copper, moly, and gold, and possibly silver, on Drill Holes AF-1, -2, -3 and -4.

We decided not to drill any holes at the present time on the South side of the main canyon; however, we should sample as many dumps as can be done on the South side of the canyon, and the dumps in the main canyon, and to take a traverse on the ridge just East of the After-thought shaft on 50' centers, taking soil and/or rock samples from the intrusive down into the alluvium, and to run those samples also for gold, arsenic, and mercury, and possibly silver. The dump samples should be run for arsenic and mercury, as well as gold.

In sampling the dumps, etc., be sure to sample the workings on the extreme East end, which are in the light felsic volcanics, and to which there is no road. I want to look through the aerial photography, particularly the enlargements, to see if we have any enlargements of the photography in this area. If not, we could order some, but I could also send the contact prints to you and mark this area on the East end that we want to make sure to sample.

Check the Cartwright photography to see if any photos were taken of the Afterthought area.

AFTERTHOUGHT PROJECT DATA.

Drill Hole information:

DH AF-1 Narrative log.

Graphic log.

Assay tabulation, (includes spectographic work)

DH AF-2 Narrative log.

Graphic log.

Geochemical work on drill samples.

Assay tabulation.

DH AF-3 & DH AF-4

Narrative and graphic logs for each hole

DH AF-5 & DH AF-6

Logging is in progress. Assay tabulation is enclosed.

Reports:

Preliminary geological report

Carrier Armenda

Page size, 2" = 1 mile Aeromagnetic map, 500' av. terrain clearance.
Maps:

Geochemical survey, surface rock chip samples located on I.P. survey grid. Rocky Mountain Geochem tabulation. With map 1" = 100'

l" = 1000', Geologic, includes I.P. grid.

Comparison sheet of I.P., S.P., Magnetics, AFMAG, all on I.P. North and South Zero line. 1" = 200 '.

Geologic map with I.P. Grid lines. 1"= 2 00'

Drill Hole information:

DM AF-L Marrative log.

Graphic log. 70 |022

Austav tabulation, (includes spectographic work)

DN AF-2 Harracive Log.
Graphic log.
Sectionical work on drill samples.
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Marrative and graphic logs for each hole.

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DEAS Narra-ve Log
Reports: Graphic Log

Preliminary geological report.

Page size, 2" = 1 mile Aeromagnetic map, 500' av. terrain clearance.
Maps:

Geochemical survey, surface rock chip samples located on I.P. survey grid. Rocky Mountain Geochem tabulation. With map 1'' = 100'

1" = 1000', Geologic, includes I.P. grid.

Comparison sheet of I.P., S.P., Magnetics, AFMAG, all on I.P. North and South Zero line. 1'' = 200'.

Geologic map with I.P. Grid lines. 1"= 2 00'

Hole Designation	Date started	Date Completed	Hole Diameter	De _l	p th to	Type drilling
AF-1	9-1-65	11-8-65	5 ⁵ /8"	0	102 535	Rotary
AF=2	9-8-65	11-24-65	NX BX	0 412	412 638	Core Core
AF-3	9-13-65	9-14-65	5 ⁵ /8"	0	105	Rotary
AF-4	9-15-65	10-28-65	6" 5 ⁵ /8"	0 20	20 180	Rotary
AF-5	6-15-66	6-23-66	55/811	0	924	Rotary
AF-6	6-24-66	7-25-66	5 ⁵ /8"	238	238 8 98	Rotary Core

6629

-10 - No. AF 1	Cu	Mo	Au	Aq	Pb.	Zn		Geochem	Spectogueph.	SAMPLE NO.	1	Depth.
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WAIKER RIVER PAIUTE RESERVATION

Walker Martel Mining Company

Bottom: 535 feet

Rotary to 102'
DDH 102-

Vertical

0.0 - 15.0 Blow sand

- 15.0 102.0 Fine grained intrusive, quartz-monzonite(?), tan to buff in color due to staining by iron oxides; 5-10% quartz, 15-25% plagioclase, 10-20% orthoclase, 5-10% biotite; 3% muscovite, considerable limonite, with ½ to 3% pyrite; ½% green copper carbonate at 78'; several grains chalcopyrite at 80-85'; dark hexagonal grains at 25-30' and 85-90' probably graphite; slightly argillized and silicified.
- Diorite(?), fine-grained, dark grey in color, fairly fresh, slightly to moderately chloritized, and slightly silicified; 5% quartz, 30% plagioclase, 10% orthoclase(?), 3-10% biotite, hornblende, and pyroxene; small amount calc-silicates at 102.0-102.8; somewhat coarser-grained at 109.8-110.9; 3% pyrite at 111' and 106', and 5% at 109', balance up to ½% pyrite; 35 quartz at 106', 1% at 112', and ½% at 107'; green copper stain at 105', grains of tetrahedrite(?) at 106', and several grains chalcopyrite and tetrahedrite at 111'; 15-25% chloritized; 3-15% carbonate.
- 119.2 131.9 Calc-silicates, white, brownish, greenish in color.

 Banded, occasional veinlets tremolite; considerable tremolite at 126-128, along with ½-1% biotite; chlorite and limonite on fractures; 5-10% biotite at 128.0-130.5°; occasional plagioclase; ½% magnetite at 126.4; fair to moderately amounts calcite; several grains chalcopyrite and tetrahedrite at 120.9.
- Fine-grained intrusive, quartz-diorite to quartz monzonite in composition; dark gray in color; approximately 35% palgioclase, 10-20% orthoclase, 5-10% quartz, 3-5% biotite, 5-15% amphiboles, traces sphene, magnetite; 10-25% chloritization, 2-15% calcite in altered zones, 5-40% silicification at 131.9-177.0; argillized at 134-136; highly silicified at 137.8-13819 with pyrite, pyrrhotite, and chalcopyrite; several grains chalcopyrite at 156 and 197; quartz as veinlets and pods in groundmass at several intervals; pyrite from trace to 3%; 1-3% pyrite at 132-139; ½-1% at 139-172; and ½-1% at 172-210; pyrrhotite in varying amounts mixed with pyrite, not estimated separately; small to moderate amounts chlorite on fractures; small amount scapolite at 168; occasional veinlets quartz and calcite from 1/16 -½" wide; increased amounts calcite at 218.0-219.8.
- 219.8 234.7 Calc-silicates, with recrystallized calcite and epidote; veinlets of calcite with pyrite with dark green to apple-green chlorite; small amounts pyrite on fractures and in coatings.

- 234.7 242.2 Same as 131.9-219.8; fine-grained intrusive, quartz diorite to quartz monzonite in composition; phenocrysts plagioclase finer grained; trace to 1% pyrite.
- 242.2 285.6 Calc-silicates; banded; banding at 45°; considerable wollastonite, occasional kyanite; small amount biotite; trace to 2% pyrite, including pyrrhotite, pyrrhotite being present in varying amounts; 2.3% graphite, and 10% graphite at 246°; several grains chalcopyrite at 256, 261, and 285°; small amounts grossularite at 260-263 and 270.6; pyrite, pyrrhotite, and chalcopyrite in quartz veinlet at 273.1; black sulfide(?) at 271.8; pyrite and pyrrhotite occur as single grains, small pods, and veinlets; chlorite along fractures; brecciated at 263.4-264.4; some granitic material at 264.8; 10-45% calcite.
- 285.6 295.8 Calc-silicates; finer-grained, hornsfelic; up to 15% epidote; more silicification; 1-3% biotite; considerable chlorite along fractures; ½-1% pyrite and pyrrhotite; 1-5% quartz as pods and veinlets.
- 295.8 302.0 Calc-silicates, medium grained; sililar to 242.2-285.6 above; considerable wollastonite, some biotite; banded; pink marble; 5% pyrite and pyrrhotite at 301.0-302.1, with trace chalcopyrite and molybdenite(?); occasional calcite and quartz veinlets; banding at 50°.
- 302.0 315.6 Fine-grained calcasilicates; hornsfelic; bended at 40-50°; fine grained biotite; 3% carbonate; 10-15% chloritized; / 2-2% pyrite and pyrrhotite; chalcopyrite at 314-315; trace graphite;
- 315.6 317.5 Fine grained intrusive, quartz diorite, ½% pyrite, trace chalcopyrite.
- 317.5 322.5 Calc-silicate, same as 302.0-315.6; small amount pyrite.
- 322.5 324.8 Quartz diorite (Quartzmonzonite?); same as 315.6-317.5.
- 324.8 341.5 Calc-silicates; hornsfelic; considerable chlorite; ½-1% pyrite. 5% pyrite and phyrrhotite at 329.
- 341.5 369.0 Quartz diorite, fine grained, dark gray in color; plagioclase phenocrysts up to 1/8"; approximately 45% plagioclase, 5-15% quartz, % orthoclase, 5% biotite; 10% chloritization; trace pyrite;
- 369.0 412.5 Very fine grained intrusive mixed with skarn; hornsfeltc; varying amounts calcite and epidote; banded at 30 45°; 2-3% pyrite and pyrrhotite; banded with chlorite and calcsilicates; numerous calcite veinlets, occasional quartz veinlets; traces bornite at 405.8; black sulfide at 405.8; brecciated at 374.0-377.5, recemented with calcite and chlorite; occasional grains chalcopyrite; 1% graphite at 412'.

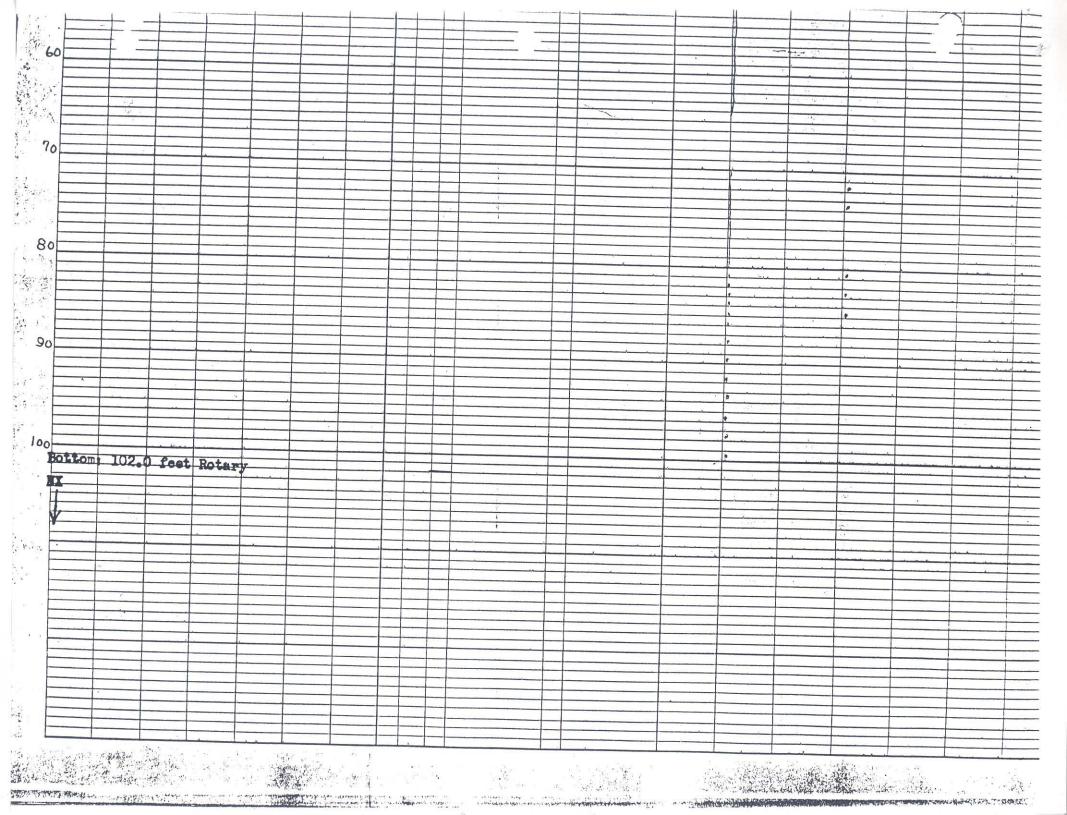
Afterthought AF-1

- 412.5 422.0 Quartz diorite, granitic texture, banded at 20-25°; medium grained with plagioclase, orthoclase, quartz, biotite; up to 35% chloritization; considerable calcite and dark green chlorite on fractures, with some pyrite; 35% calcite at 417-422.
- 422.0 454.8 Calc-silicates; banded 45°; some granitic material, with pink orthoclase; considerable wollastonite at 441.0-454.8; trace to ½% pyrite and pyrrhotite; 5=20% calcite; 10-25% chloritization;
- 454.8 461.5 Fine grained intrusice, quartz diorite in composition;
 40% plagioclase, 15-20% quartz, 20%(?) ortoclase, 5% amphibole;
 trace to 1% pyrite.
- 461.5 464.6 Calo-silicates, white and gray; 1-1% pyrite.
- 464.6 500.0 Quartz diorite (quartz monzonite?), dark gray in color, medium to coarse grained; 40% plagioclase, 25(?)% orthoclase, 10-15% quartz, 10% chlorite replacing biotite and amphiboles; numerous calcite veinlets; highly chloritized 494-500°; Brecciated at 503.4 505.5; trace to ½% pyrite; fine grained at 494-495°; several grains chalcopyrite at 479; 10-20% argillized at 490-505°.
- 500.0 511.0 Clay and gouge, faulting dipping 650(?).
- 511.0 535.0 Quartz monzonite(?), dark gray in color; brecciated at 516-527; highly chloritized 511-527; fairly fresh at 527.6-535; trace to 1/2 pyrite; at 528; 35-45% plagioclase, 10-10% orthoclase, 10-20% quartz, 3-10% biotite, 10% amphibole; 20-40% chloritization.

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CABLE: HANX

Assay-Chemical Division

ABBOT A. HANKS

ESTABLISHED 1866

1300 SANSOME STREET . SAN FRANCISCO, CALIFORNIA 94111 . TELEPHONE (415) 397-2464

Assayers
Chemists
Spectrographers
Mining Consultation
Representatives
Inspectors
Samplers

LABORATORY REPORT

ab. No.

1717

ubmitted by

Mr. Robert L. Redmond 1080 Pine Ridge Drive Reno, Nevada Date September 22, 1965

Sample Mark 823 R - Sample of Drill Core

QUALITATIVE SPECTROGRAPHIC ANALYSIS Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3 % to 30 %	30% to 100%
Molybdenum	Manganese	Aluminum	Silicon	
Vanadium	Titanium	Magnesium	Calcium	
Copper	Strontium	Iron		
Lirconium		Sodium	manage /	To experimental sources and the second
Nickel		Barium		
Chromium				
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C. J. Taylor

Walker Martel Mining Company

Walker Martel Mining Company

DDH - Vertical

Bottom: 412 feet

- 0.0 59.5 Granite, fine-grained, highly silicified; with up to 10-15% limonite pseudomorphic after pyrite; pyrite had been in crystals, and veinlets; small pheocrysts of feldspar remnant in ground-mass; numerous veinlets of quartz; approximately 20% limonite at 6.0; 5% altered biotite; small amount unoxidized pyrite at 10.5; considerable jarosite; up to 5% pyrite at 16.8-16.9, 20% at 57.8-58.6; trace to 1% pyrite balance of section; sporadic grains of molybdenite at 22.0-59.5; highly brecciated at 22.0-40.0; In thin-section rock is a granite, fine-grained; with 40-65% K-feldspars, 10% plagioclase, 50-15% quartz, 3-5% biotite, 5% amphiboles, and 1-3% apatite.
- 59.5 61.8 Quartz-mcnzonite, grey in color, fine-grained; in thin-section 35% plagicclase, 30% orthoclase, 7% quartz, 8% amphiboles, 4% pyroxenes, 3% chlorite; 1%+ pyrite.
- 61.8 66.0 Sheared zone, argillized with considerable limonite.
- 66.0 69.7 Same as 59.5-61.8 above; 2-1% pyrite.
- 69.7 119.4 Calc-silicates; with garnet, epidote, plagioclase; scattered veinlets of calcite; some exotic limonite along fractures; 2-10% graphite; trace to 2% pyrite; 10-15% chloritization.
- 119.4 125.5 Quartz-monzonite, same as above; with up to 10% pyrite as pods and veinlets, averaging \frac{1}{2}-2%.
- 125.5 131.8 Calc-silicates, same as 69.7-119.4 above; 2% graphite.
- 131.8 152.8 Quartz-monzonite, same as above, with $\frac{1}{2}$ -3% pyrite.
- 152.8 164.6 Calc-silicates, same as above, with 1-2% pyrite and 2-5% graphite.
- 164.6 176.5 Quartz-monzonite, same as above, with 2-3% pyrite.
- 176.5 184.5 Calc-silicates, same as above, with 2-5% pyrite and 3-8% graphite. Small amount chalcopyrite.
- 184.5 189.6 Gouge and breccia.
- 189.6 194.8 Calc-silicates, same as above, with 2-5% pyrite and 5% graphite.
- 194.8 199.0 Quartz-monzonite, same as above; with 2% pyrite.
- 199.0 209.8 Calc-silicates, same as above; with 3-5% pyrite and 3-4% graphite; considerable green chlorite.
- 209.8 267.5 Quartz-monzonite, fine-grained, grey in color; in thin-section 30% plagioclase, 30% orthoclase, 10% quartz, 2% biotite, 12% hornblende, 8% pyroxene, 2% apatite, and 5% pyrite, part of pyrite is pyrrhotite. 7% pyrite at 214; 2-1% pyrite balance of section; partially silicified.

- 267.5 296.0 Calc-silicate, same as above; with 1% pyrite, and 3-10% graphite at 267.5-274.0°, and 6-10% at 293-296°, and 2% balance of section.
- Quartz-monzonite, fine- to medium-grained, grey to dark grey in color; in thin section variable in composition, with sections at 303', 396', and 409'; at 303' approximately 25% plagioclase and 40% orthoclase, at 396' 50% plagioclase and 20% orthoclase, and at 409' 15% plagioclase and 45% orthoclase; 5-15% quartz, 2-5% biotite, 6-12% amphiboles, 7-13% pyroxenes, \(\frac{1}{2}\)-3% apatite; slightly silicified.

 Some calc-silicates at 407.0-409.0 and 411-412.

 7% pyrite at 305'; 3% at 320-340', and \(\frac{1}{2}\)-1% balance of section; grains of molybenite at 313 and 339'. Sporadic grains chalcopyrite at 299, 316, 337, and 359'.

 Slightly chloritized, with fair amount dark green chlorite along fractures; slightly to moderately silicified.

Bottom

Walker Martel Mining Company

DDH 0.0 - 412.0 412.0 - 638.0

Bottom: 638.0

Vertical

- 412.0 433.8 Calc-silicates; considerable pyroxene at 420.8-421.5; some garnet, epidote, zoisite, chlorite, and wollastonite; considerable wollastonite at 423-424°; banding at 45°; small amount pyrite and pyrrhotite; considerable chlorite at 426.8-427.5°, and along fractures; somewhat hronsfelic; occasional calcite veinlet.
- 433.8 439.0 Quartz-diorite, medium grained; small rosette of molybdenite.
- 439.0 492.0 Calc-silicates, hornsfelic; considerable wollastonite; trace to 2% pyrite and pyrrhotite as grains, crystals, and minute veinlets; banding at 40-50°; dark green chlorite along fractures.
- 492.0 494.9 Quartz-diorite, medium grained, fresh; pyrite and chlorite along fractures.
- 494.9 543.0 Calc-silicates, hornsfelic; considerable epidote and calcite and fair to moderate amounts wollastonite; occasional veinlet biotite at 526-535'; banding at 45-50°; apple-green chlorite at 509.6; small amount granitic rock at 519.7; 2-2% pyrite and pyrrhotite, considerable pyrrhotite at 535'.
- 543.0 547.7 Quartz-diorite
- 547.7 558.0 Calc-silicates, hornsfelic, banding at 40-45°; considerable biotite.
- 558.0 560.0 Quartz-diorite, medium grained.
- 560.0 596.0 Calc-silicates with 4" granitic rock at 592.2-592.7"; fineto medium grained; considerable chlorite along fractures
 with associated calcite; fair to moderate amounts biotite;
 banding at 40-50°; trace to 2% pyrite and pyrrhotite as
 grains and veinlets; highly chloritized at 586-596°.
- 596.0 625.4 Calc-silicates; up to 3% sulfides at 605.611; \(\frac{1}{2}\)-2% balance of section; traces of chalcopyrite; 5-15% pyroxenes at 596-605; traces molybdenite at 603.5; trace sphalerite at 609.5; considerable wollastonite at 596-605; pyrite and pyrrhotite in grains, minute pods, and veinlets; veinlets of quarts and calcite; heavy green chlorite on fractures.
- 625.4 638.0 Quartz-diorite, fine to medium grained; highly chloritized; brecciated and recemented by calcite; numerous veinlets calcite; heavy clay at 629.4-631.0; brecciated at 633-638.
- Bottom: 638.0 11/24/65

DRILL LOG COMPANY NAME Walker Martel Mining Company MINE AFTERTHOUGHT _____COORDINATES OF COLLAR:_______SHEET_1_OF_5___SCALE_____ HOLE NO. AF-2 DATE 11/65 LENGTH OF HOLE 638.0 feet _____CASING___ Boyles Bros. Drilling Co. ACCOMPANIED BY NARRATIVE LOG YES X NO ALTERATION LOG AND ROCK TYPE MINERALIZATION Alb Ortho S DIP S Chlor Garb Arg | Ser | Sili REMARKS DESCRIPTION Qtz Ca Mo As Exer G: Granite 20 30 75 40 55 - 20

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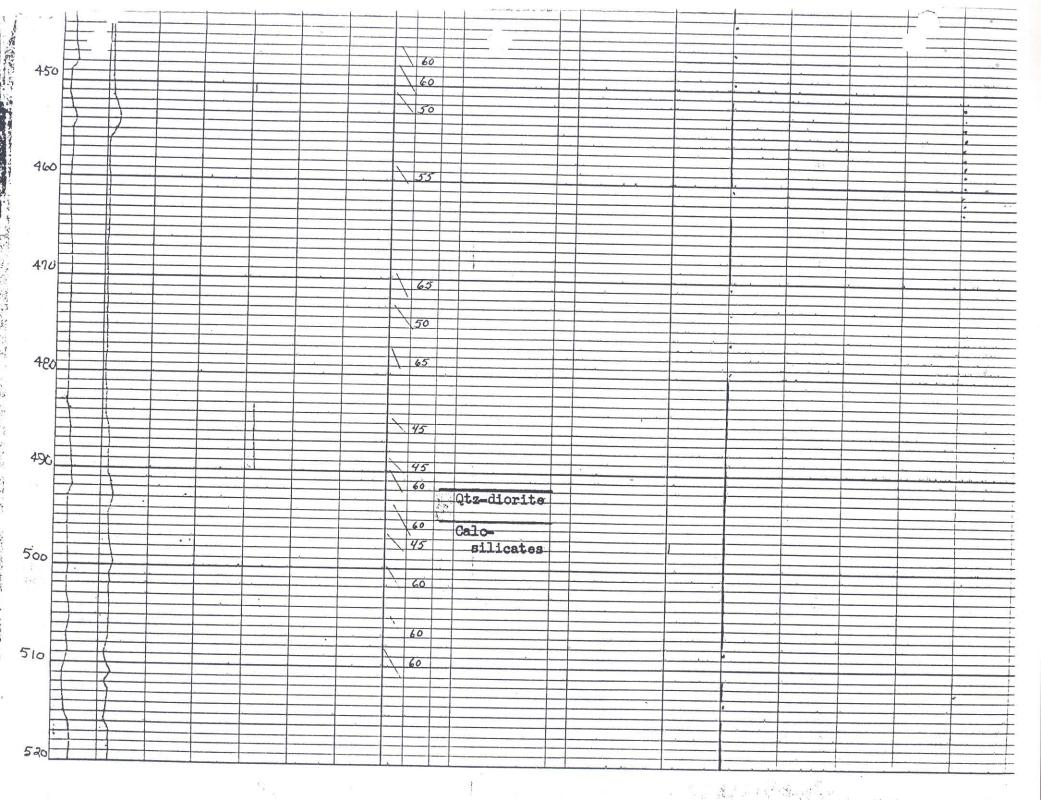
COMPANY NAME	Walker	Martel	Mining	Company
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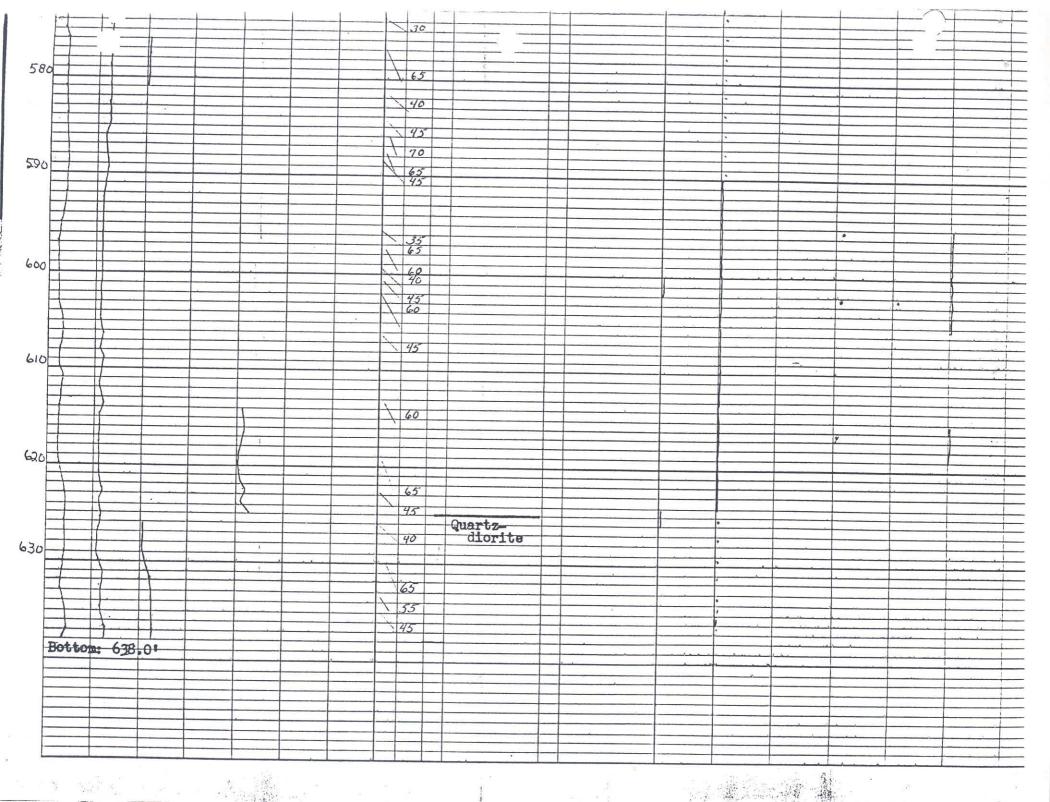
COMPANY NAME Walker Martel	Mining	Company
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	COMPANY NAME	Walker	Martel	Mining	Company
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ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

P. O. Box 2217, 1870 South 2nd West St.
SALT LAKE CITY, UTAH 84110

ANALYTICAL REPORT

Phone 466-9172 Area Code: 801

Date 10-27-55

AFTERTHOUGHT

Client Mr. William Wilson Walker-Martel Mining Company 1080 Pine Ridge Drive Reno, Nevada

Report on: 10 large drill core samples

Submitted by: Mr. Wilson Date: October, 1965

Analysis: Copper & Molybdenum

Remarks: All analyses done colorimetrically.

cc: Enc. file

JJJ:ab

All values are reported in parts per million unless specified otherwise. A minus sign (-) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

AF-2

	Samp	le No.	Copper	Molerholomum
	1	Footas	and the same of the same	Molybdenum
	835R	390-400	20/	2
	837R	380-390	15	3
	838R	370-380	120	2
	839R	360-370	150	8
	840R	350-360	20	5
	841R	340-350	55	12 /
	842R	330-340	265	10 /
	843R	320-330	280	- 8
	844R	310-320	330	5
1	845R	300-310	1340 = 0.0340%	25 /

Rocky Mountain Geochemical Laboratories Salt Lake City, Utah October 27, 1965

James L. Johnson

Walker Martel Mining Company

Rotary 0.0 - 105.0

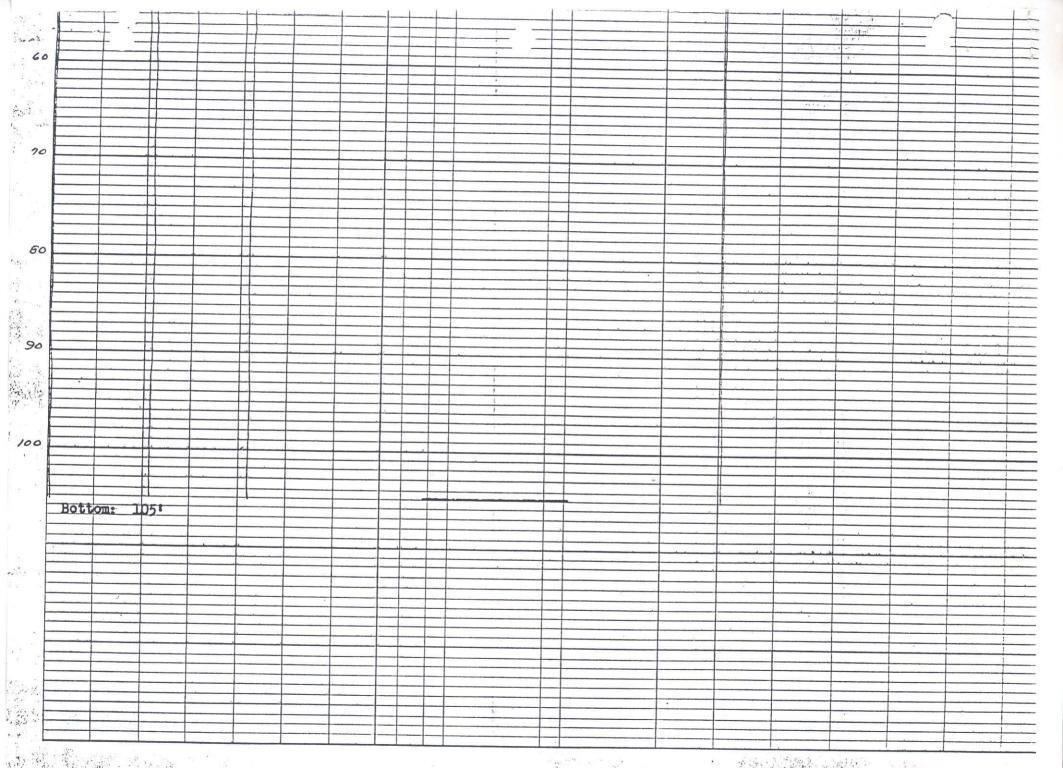
Bottom: 105'

Vertical

- 5 5 Quartz-monzonite(?), fine grained; with 10-15% quartz, 20-25% plagioclase, 15-20% orthoclase, 5-10% biotite, 3-5% hornblende, and 2-1% pyrite replaced by limonite; 20% silicified and 15% argillized.
- 5 30 Same as above, bleached, with some scattered pyrite replaced by limonite.
- 30 35 Same as above, stained reddish by hematite.
- 35 40 Same as above, bleached, with 25 pyrite.
- 40 95 Same as above, bleached, stained brownish by limonite; limonite pseudomorphs after pyrite; 3-5% gypsum at 85-90.
- 95 105 Same as above, gray in color, fairly fresh; 3% pyrite at 95-100; and 5% at 100-105.

Bottom: 105 feet.

SRILL LOG COMPANY NAME Walker Martel Mining Company Afterthought ___COORDINATES OF COLLAR:_______SHEET____OF_____SCALE_____ LOCATION 6 miles northwest of Schurz, Nevada N_____ BY EFL AU. @____ HOLE NO. AF 3 ____LENGTH OF HOLE___105 feet Vertical HOLE SIZE Rotary 0-105 Boyles Bros. Drilling Co. ACCOMPANIED BY NARRATIVE LOG YES T ALTERATION LOG AND ROCK TYPE MINERALIZATION Ch lor Carb Arg Ser Sili Alb DESCRIPTION REMARKS Qtz Py Cu Quartzmonzonite(?) 10 30



AFTER TYPES SAMPLE (Comment) - Street Comment (Comment) - Street (Comme

J. K dayes, Supervisor - Field Exploration

4. W. Morgen, Supervisor - Chemical Usbarustry

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FURCT: Iron Ore

R. L. Redmond

AF3

	Sample No.	Semple 10.				
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R. W. Morgan Supervisor - Chemical Laborators

WALKER RIVER PAIUTE RESERVATION

Walker Martel Mining Company

Rotary: 0.0 - 180.0

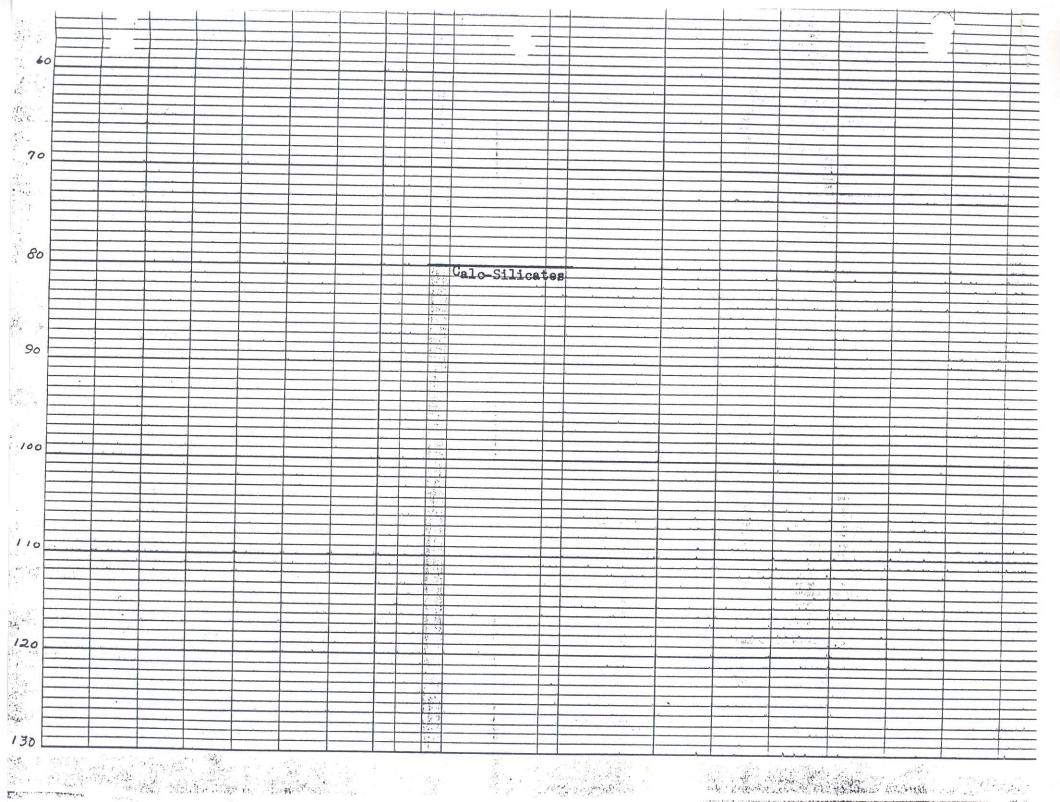
Bottom: 180 feet

Vertical

- 0 25 Alluvium sand
- 25 60 Quartz-monzonite(?), bleached, stained brown by limonite; highly argillized; occasional quartz veinlet; some limonite pseudomorphs after pyrite; part of limonite exotic; small amount gypsum.
- 60 80 Same as above; slightly more silicified; arsenopyrite(?) at 70-75; trace molybdenite at 75-80; small amounts pyrite at 65-70.
- 80 140 Same as above, but with small amount skarn and epidote.
- 140 155 Same as abovem but stained reddish by hematite.
- 155 180 Same as above but less argillized; 10-15% quartz, 35% plagioclase, 20% orthoclase, biotite; limonite pseudomorphs after pyrite.

Bottom: 180 feet.

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- 1014.0 1028.0 Quartz monsonite, medium grained, gray, with 30-40% plagioclase, 15-30% orthoclase, 5-15% quartz, 3% biotite; with 1/2-1% pyrite disseminated in groundmass; slightly chloritized.
- 1028.0 1040.8 Calc-silicates, light gray; with several veinlets of calcite containing vugs of calcite crystals; 1-2% graphite; ½-3% pyrite; traces hematite at 1038; traces chalcopyrite,
- 1040.3 1068.0 Calc-silicates derived from black carbonaceous limestone; dark gray; numerous calcite with pyrite; 12-3% pyrite; occasional grains chalcopyrite; brecciated at 1042-47:
- 1068.0 1073.0 Calc-silicates, lighter in color; dipping 200; 156 pyrite,
- 1073.0 1074.0 Granodiorite, gray, fine-grained,
- 1074.0 1171.3 Calc-silicates, light gray in color; 12-25 pyrite; traces pyrhotite; occasional traces chalcopyrite; small amounts graphite; occasional grains of galena; traces to 125 sphalerite at 1143-55; bedding dips 20°; small amounts intrusive at 1107; several small veinlets gypsum at 1160'; occasional copper carbonates; numerous small veinlets calcite and pyrite; 24" gouge at 1079-81.
- 1171.3 1179.8 Elack calc-silicates; small amounts garnet and hematite.
 1-3% graphite; traces pyrite.
- 1179.8 1331.0 Calc-silicates, gray in color; numerous random veinlets calcite; occasional veinlets apple-green chlorite; 12-3% pyrite; traces chalcopyrite; trace to 3% sphalerite at 1186-1201', with occasional traces sphalerite; averages 2-3% graphite; 20% garnet at 1184; small amounts brown chlorite, with dark green chlorite on fractures; pyrite occurs as veinlets, pods, and disseminated; several veinlets calcite, and pyrite; at 1330-31' several minute veinlets calcite, galena, sphalerite; some apple-gree chlorite on fractures.

Bottom: 1331.0

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6000 OOHI (0540)

WALKER RIVER PAIUTE RESERVATION

Walker Martel Mining Company

Total depth: 898 feet

Rotary: 0.0 - 238,0° IIX: 238,0 - 898.0°

Vertical

- 0.0 50.0 Alluvium, mostly wind-blown sand, no sample.
- 50.0 90.0 Decomposed granitic rock with thin layer lacustrino sediments(?) covering the top; samples badly contaminated in upper part; fragments contains plagicalese, orthoclase, quarts, biotite, hornblende; with 3-10% limonitic and jerositic material replacing sulfides and partly exotic; numeroud pseudomorphs limonite after pyrite.
- 90.0 238.0 Quartz monzonite(?) with layers(?) metamorphics including calcollicates; probably quartz monzonite intruding along bedding of calcareous sediments; 5-15% limonitic and jarositic material both replacing sulfides and exotic, part of limonitic dark brown and pitchy; small amounts gypsum; some pseudomorphs of limonite after pyrite; fresh pyrite at 170-238*from 2-5%; traces galena(?), at 215*; some epidote and garnet at 155*.

Bottom of rotary at 238.0 feet.

- 238.0 247.0 Calc-silicates with small amount silicified fine-grained intrusive; hornfelsic texture; with garnet, epidote, zoisite; bedding at 40-50°; small amounts gypsum and chlorite on fractures; \$\frac{1}{2}-2\pi\$ pyrite disseminated in groundmass, some partially oxidized to limonite; a few pseudomorphs limonite after pyrite; traces graphite; small amounts chlorite and carbonate in groundmass.
- 247.0 254.0 Quartz monzonite, medium grained; with plagioclase, orthoclase, 5-15% quartz, 3-5% hornblende; 2-3% pyrite disseminated and as veinlets, slightly ozidized; groundmass slightly chloritized with small amount carbonate;
- 254.0 265.0 Calc-silicates; banding at 45°; some wollastonite at 254-55'; darker bands of femags; small amount clay and green chlorite along fractures.
- 265.0 294.0 Quartz monzonite, silicified; up to 5% biotite at 269°;
 25-45% silicified, slightly argillized and chloritized, with
 small amounts carbonate in groundmass; traces to 2% pyrite,
 partly oxidized, up to 2% psoudomorphs after pyrite in places;
 some gypsum and exotic brown limonite on fractures; a few
 minute pods magnetite in places; brecciated at 29C-93°.
- 294.0 296.6 Calc-silicates; banding at 70°; some minute veinlets of gypsum and limonite, 2% graphite; slightly argillized and chloritized with small amounts carbonate.
- 296.6 298.0 Quartz monzonite, silicified; traces pyrite.

- 298.0 300.0 Gale-silicates; stained brown by limonite; traces graphite; 20% argillized with some chlorite and carbonate.
- 300.0 302.6 Quartz monsonito, silicified; 25% silicified groundmass and partially argillized and chloritized; 1% pyrite with tracco arsenopyrito; considerable limenite with up to 10% limenitic pseudomorphs after pyrite at 300-01°.
- 302.6 303.5 Calc-vilicates; with 3% pyrite, traces argenceyrite, trace graphite.
- 303.5 314.0 Quarts monzonite, fairly fresh; slightly silicified and argillized with some chlorite and carbonate; \$\frac{1}{2}-5%\$ pyrite with traces arsenopyrite; pyrite as veinlets and disseminated; 2-5% femags.
- 314.0 365.0 Calc-silicates; with alternating bands recrystallized limestone and calc-silicates; small amount wollastonite at 336-7', garnet and epidote at 345-47', wollastonite at 345-54'; anthophyllite asbestos at 368-72'; slightly chloritized with varying amounts carbonate in groundmass; banding at 70° at 318', 55° at 322', 55° at 335', 40° at 350'; 12" gouge at 339-40'; 3" gouge at 55° at 363'; traces blue copper carbonate at 347' and 354'; up to 5% brown mica at 357-63'; traces to 1% pyrite at 314-58' and 2-5% at 358-65'; traces arsenopyrite and pyrrhotite at 357-63'; arsenopyrite associated with pyrite.
- 365.0 389.0 Quartz monzonite, fairly fresh; moderately silicified with small amounts chlorite and carbonate; 1-5% pyrite averaging 2½%; trace to 1% arcenopyrite at 372-80°; trace chalcopyrite and pyrrhotite at 379°; at 389° 2" veinlet of 45% pyrite with small amount arsenopyrite.
- 389.0 559.0 Calc-silicates; with garnet, epidote, wollastonite, zoisite, calcite, and brown mica; appears to be from fairly pure carbonate beds with interlayers of clayey calcareous sediments; small amount quartz monzonite at 397-98; up to 15% brown mica at 485-862; bending at 60° at 420;, 35° at 4251, 35° at 440°, and 35° at 4551; small amount quartz monzonite at 431-32°, 545°, and 550°; slightly argillized with some chlorite and carbonate in groundmass; occasional veinlet and pods of quartz; traces to 1% pyrite, with 1-2% at 480-84%; traces to 5% graphite at 413-519', 1% at 549-553', and 3-15% at 553-591; traces arsenopyrite at 410-221, 429-491, 490-911; with 1% at 390-98, and traces to 1% at 549-55; trace chalcopyrite at 545°; ; 4° gouge on fracture at 459° dipping 60°; traces sphalorite and chalcopyrite at 450'; small amount specularite at 5131; a few grains rhodocrosite at 5331; dark green chlorito on fractures.
- 559.0 563.0 Quartz monzonite, fairly fresh; with 45-55% plagioclase, 10-30% fomags, 20% quartz; up to 20% silicified; with ½-2% pyrite, trace to 3% pyrrhotite, trace chalcopyrite, and up to 1% molybdenite at 559-60'.

- 563.0 590.0 Galc-silicates; with epidote garnet, calcite, upliastonite, brown mica; banding at 45-50°; traces to 1% pyrite; traces to 1% pyrrhotite with 3% at 569'; traces to 2% graphite; trace chalcopyrite at 578°; pyrite and pyrrhotite in voinlets and disseminated; dark green chlorite on fractures.
- 590.0 593.0 Quarta monsonito with calc-silicates; with 2% quarts, traces pyrito and pyrrhotite.
- 593.0 621.0 Calc-silicatos; bandod at 35-40°; traces pyrito, traces to 1% pyrrhotito, traces to 2% graphito, trace chalcopyrito at 578°; veinlots quarts, pyrite, pyrrhotite, and calcite; apple-green chlorite on fractures.
- 621.0 632.0 Quartz monzonite, slightly silicified, chloritized; trace to 1% pyrite; traces to 1% pyrrhotite; 12" gouge at 631' dippng 55°.
- 632.0 688.0 Calc-silicates, gray; with epidote, wellastenite, calcite, amphiboles; slightly chloritized; \$-25 pyrite with 10% at 643°; \$-3% pyrrhetite; 5-20% graphite; traces chalcopyrite at 649° and traces molybdenite at 683°; part of pyrite and pyrrhetite along bedding planes; pyrite usually in veinlets associated with calcite and pyrrhetite; dark colloidal chlorite on some fractures; calcite as crystals in vugs in places.
- 688.0 701.0 Quartz monzonite with calc-silicates; slightly silicified; 2-3% pyrite disseminated and as veinlets; 2-5% pyrrhotite; trace chalcopyrite at 696; moderate amount black concoidal chlorite on fractures.
- 701.0 717.0 Calc-silicates; same composition as above; gray in color; with 2-1% pyrite as veinlets and disseminated; 2-2% pyrrhotite associated with pyrite; 2-15% graphite; some apple-green chlorite on fractures.
- 717.0 721.0 Quarts monzonito, medium grained; some plagloclase visible showing albite twinning; 2% pyrite, 1% pyrinotite.
- 721.0 822.0 Calc-pilicates, gray; with wellastonite, epidete, garnet, calcite, brown mica; with trace to 1% pyrite; 1-3% pyrrhotite; 1-5% graphite with up to 15% in places; numerous calcite veinlets, some with pyrite and pyrrhotite; traces chalcopyrite at 807 and 814; copper carbonate at 814; brocciated and recemented by calcite at 814-15; small amount piedmontite at 801; banding at 35-65°.
- 822.0 848.0 Quartz monsonite; with plagioclase, orthoclase, quartz, biotite, and hornblende; slightly silicified; considerable biotite at 823'(20%) and at 838'; some calc-silicates at 844'; trace to 1% pyrite at 822-37' and 5-16% at 837-48'; 2-5% pyrrhotite; slightly magnetic; at 836-844' 1% galona, 3% arsenopyrite, 7% pyrite, 5% pyrrhotite; numerous veinlets calcite with pyrite and pyrrhotite, a few scattered veinlets of quartz and calcite with pyrite and pyrrhotite; 8" gouge at 836' dipping 60°; dark green chlorite on fractures.

AF-6

- 848.0 897.0 Calc-silicates, gray; at 865-74° 80-90% wollactonite; 90% calcite at 885-88°; alternating layers gray and white calc-silicates, probably from slightly impure careous sediments; 1-2% pyrite, traces pyrrhetite; 2-5% graphite; numerous voinfets calcite with pyrite and pyrrhetite; random veinfets at 692-97°; curts voinfets at 692-97° with pyrite and pyrrhetite; banding at 35-55°;
- 897.0 898.0 Quartz monzonito; with plagioclase, orthoclase, quartz, biotite, and amphiboles; moderately silicified; minute veinlets quartz with small amounts pyrite and pyrrhotite; some pyrite and pyrrhotite disseminated in groundmass.

Bottom: 898.0 foot

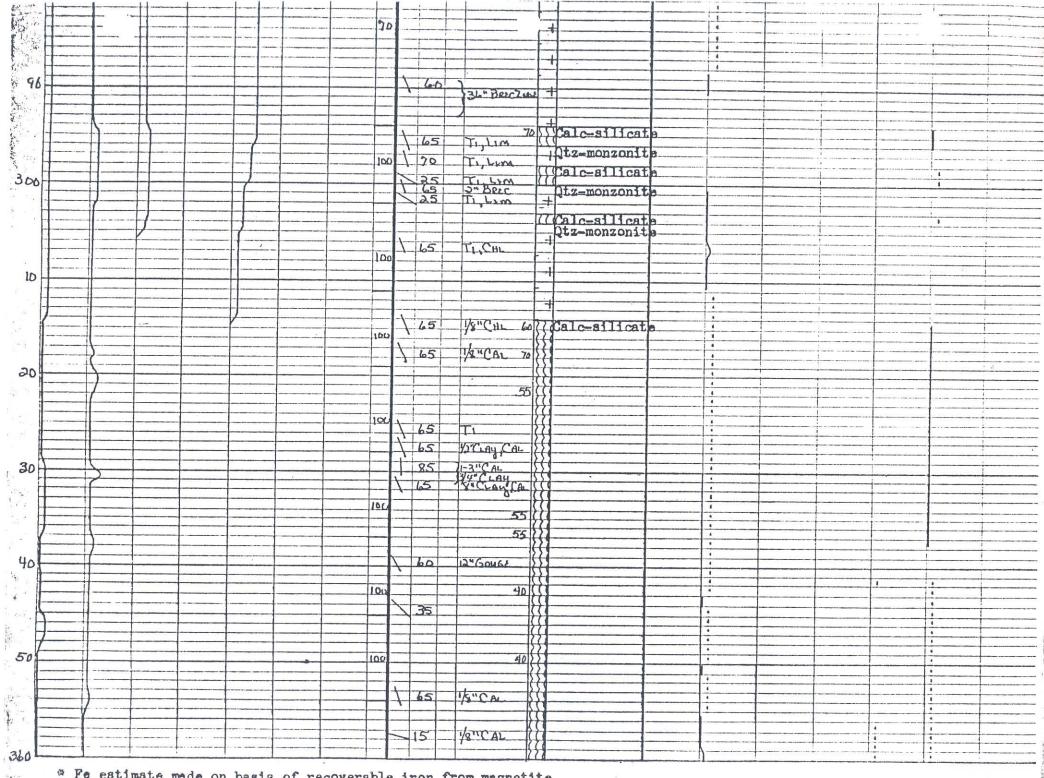
Note: See visual log for fractures and other structures, and for estimations of percentage of minerals per foot.

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DRILL LOG

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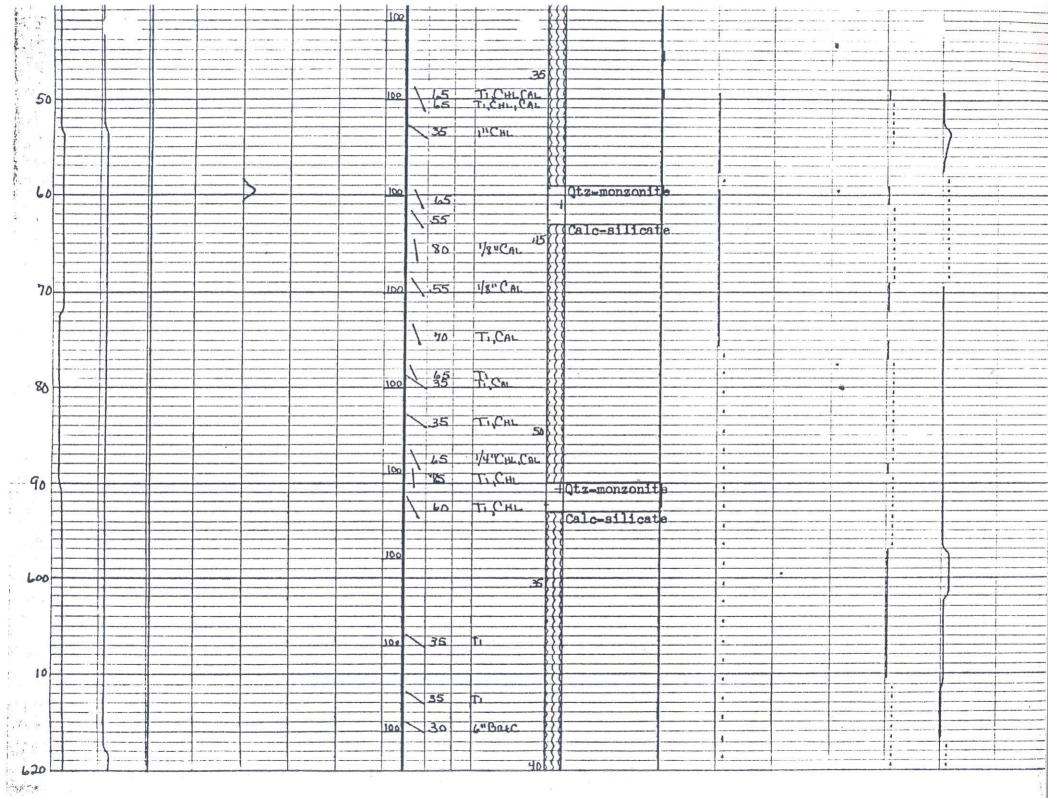


Fe estimate made on basis of recoverable iron from magnetite.
Cu estimate made on basis of percentage of copper minerals present, usually chalconvrite.

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Date 7/28/24	Hole No. AF-7
District After There	Claim
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TATUM EXPLORATION DRIL 'NG

WAGON DRILL REPORT

Date 7/28/Det District Africa There of I	Hole No. AF-8 Claim pth 2=0
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TAI'UM EXPLORATION DRILLING

Hole No. 1 - 7

Claim

REMARKS

Total Depth

Footage

FROM

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Description

TATUM EXPLORATION DRIL NG

WAGON DRILL REP	OR	T
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Date 7 30/74	Hole No. 4- 1-10
District After through	Claim
Total Depth	

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TAIUM EXPLORATION DRILLING

WAGON DRILL REPORT

Date 7/3//74	Hole No.	-11_
District 1/2 1/20/11	Claim	
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TATUM EXPLORATION DRIL ING

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Prol	oe Depth			Driller Litum		
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TAIUM EXPLORATION DRILLING

WAGON DRILL REPORT Total Depth 256 Description Probe Reading Footage TYPE FROM COLOR Driller ___ Probe Depth _____ Remarks: _

TATUM EXPLORATION DRIL NG

WAGON DRILL REPORT

1	te	12/	7cf Korney 1	Hole No. AF-	-14	
Dis	strict 4		Total D	Pepth 247		
Foot	tage			Description	Probe 1	Reading
FROM	TO	TYPE	COLOR	REMARKS	DEPTH	SCALE
0	40			ky Skattery	Race	Q.
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						1
			See Later (Liver)	:		
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			10			
	bbe Depth marks: _			Driller Later		
	7.					_

TA'I UM EXPLORATION DRILLING

WAGON DRILL	REPORT	
Date 8/7/74	Hole No. AF-15	-
District after thought	Claim	_
Total Depth 57		180

Footage		Description			Probe Reading	
FROM	то	TYPE	COLOR	REMARKS	DEPTH	SCALE
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Probe Depth		Driller_	Station		
Remarks:				 	September 1
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TATUM EXPLORATION DRIL NG

	te	8/3	AGON 194 Total D	$(\mathcal{A}_{\mathcal{A}})$	-16	
Foot	age			Description	Probe P	Reading
FROM	то	TYPE ROCK	COLOR	REMARKS	DEPTH	BCALE
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TAIUM EXPLORATION DRILLING

WAGON DRILL REPORT Claim. Total Depth 256 Description Probe Reading Footage TYPE FROM COLOR REMARKS DEPTH SCALE Driller Jakeurs Probe Depth _____ Remarks: _

TATUM EXPLORATION DRILI IG

		, WA	GON	DRILL REPORT		
	te_8	1819	124	Hole No. AF-	18	
Dis	trict O	Cert	hong			
			Total D	epth 178		
Foot	age			Description	Probe R	eading
FROM	то	TYPE	COLOR	REMARKS	DEPTH	SCALE
0	44		,	med Soft Shotley	Geres	9
44	60			Cut And	12	
60	160			light Est lord	Conce	
60	198			Est Ruel		
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D	ha Danti	n		Driller Kalium		o levi
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Rei	marks: _	192				- 1
150	3	· · · · · · · · · · · · · · · · · · ·				_

TATUM EXPLORATION DRILLING

WAGON DRILL REPORT

Date	Lettrought Claim	F 19
	Total Depth 202	
Footage	Description	Probe Readi

Footage		Description			Probe Reading	
FROM	TO	TYPE	COLOR	REMARKS	DEPTH	8CALI
0	5			allunium San		
0	208			sherium, Sas Govely Bouly		
				Rosales		
				, , , , , ,		
				9		
		<u> </u>			7.	
Pr	obe Depth			Driller Taken		

Probe Dept	h	Driller Latur	
Remarks: _	×		

TATUM EXPLORATION DR' LING

WAGON DRILL REPORT

Date 9/20 /74 District af latheught	Hole No. #F20
Total Depth	

Footage			Probe I	Probe Reading		
FROM	70	TYPE	COLOR	REMARKS (DEPTH	8CAI
0	5			blue Sand		
5	208			hard		
•						
	7					
				D		
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Natural Parameter						
55						
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Pro	obe Depti	1	::	Driller Lalus	n	

PRELIMINARY REPORT

Geology of the Afterthought Area, Walker River Paiute Reservation Mineral County, Nevada

The Afterthought area lies approximately eight miles northwest of Schurz, Nevada, and extends from highway U.S. 95 westwards for three miles, covering approximately 12 square miles. The area is gentle in the Afterthought area itself, but the topography is rugged to the west, especially in the area of Mesa peak. The elevation varies from 4500 feet on the Weber Reservoir road to 5000 feet at the Afterthought shaft, and 6042 feet on Mesa peak. The area is somewhat more complicated than the Calico area to the east, but appears to be an extension of the geologic features.

Numbers were assigned to the volcanic units as they were mapped, and do not have any age connotation. The age relationships are shown in the geologic column, however some are tentative, especially the volcanic flows and intrusives. Further work in the area to the north and west will probably clarify the correlation of these units.

Pre-Tertiary Rocks

Metamorphics - (M) The Afterthought area appears to have been covered by Mesozoic sediments consisting of shales, shaly limestone, limestones, sandstones, and limey shales. Some of the limestone have been merely recrystallized, keeping its original bedding. These rocks have been metamorphosed to a series of recrystallized limestone, calc-silicates, skarn, schist, slates, and quartzite. These rocks occur in the area of the IP anomaly west of the Afterthought shaft, and around the flanks of the granitic-aplitic intrusive mile to the northeast. They also appear in drill holes AF 1 and 2.

Diorite and Gabbro (Di) - occurs in the area 3,000 feet north of the Afterthought shaft and along the west flank of the granitic-aplitic intrusive, and extend approximately 1 mile west to the base of Mesa peak. It is medium to coarse grained, and varies from gabbro to diorite in composition. One specimen of gabbro taken from the small pit in the saddle and 200 feet east of the road contained 65% plagioclase (andesine), 20-30% hornblende, 5-10% augite, 2-3% biotite, 3-5% chlorite, and traces magnetite, the magnetite replacing fe-mags along crystallographic planes and boundaries. A specimen of diorite 500 feet west of the road contained 60% palgioclase, 15-20% brown hornblende, 2-3% biotite, 5% actinolite, 1-2% chlorite, and with small amount magnetite replacing the fe-mags along crystallographic planes and boundaries. Another specimen of diorite near the road and along the southwest flank of the granitic-aplitic intrusive showed 50% plagioclase, 30% orthoclase, 3-5% biotite, 3-5% actinolite, 10-15% hornblende, and with magnetite replacing the femage. This magnetite occurs interstitial and along crystallographic boundaries. The diorite and gatbro contains varying amounts of magnetite, and in places the rock is magnetic, especially at "O" E-W and 35N. Hematite with traces of copper carbonates occurs in this area, and a small pit has been dug on it in the past. This diorite appears to continue to the west under the overlying tuffs and volcanic flows.

Granodiorite (GD) - occurs in the area of the Afterthought shaft and to the south covering an area of approximately one square mile. It is fine to medium grained and fairly uniform in composition. One specimen taken above the shaft in thin section showed 30% plagioclase, 40% orthoclase, 15% quartz, 7% hornblende, and 1% pyroxene. It has been silicified in some areas, and in places cut by quartz veins containing traces of copper, being slightly altered in these areas. Otherwise the granodiorite shows no wide spread alteration.

Fine-grained intrusive (FGI) - This rock occurs along the northwest flank of the granodiorite, and also across the wash from the Afterthought shaft against the metamorphics. It may be a border facies of the granodiorite, but more likely represents a border facies of a quartz monzonite intrusive later than the granodiorite. Spatially it is related to the granodiorite and may have been a border facies of it that has been silicified by later solutions. It is separated from the granodiorite by a fault running N 50°E. This rock is intercalated with calc-silicates and skarn of the metamorphics across the wash from the Afterthought shaft, and also in drill holes AF 1 and 2. It contains considerable sulfides in these drill holes near the surface. Thinsections of the core shows this rock to vary from granite to quartz monzonite and diorite (Lawrence, Rept thin-sections, Afterthought Area). This variation probably is partially due to assimilation of country rock at the time of intrusion. One small outcrop in the area of the V21 flow at 350 feet northeast of drill hole AF 3 is completely silicified. In thin section it shows ghost cutlines of feldspar with rims of secondary biotite aound corroded quartz phenocrysts. One large feldspar phenocryst shows pericline twinning.

Quartz monzonite (QM) - This rock outcrops in an area 1,500 feet north of the shaft and along the southwest flank of the granitic-aplitic intrusive. It occurs only as small patches and may be merely local variations of the other intrusives. It is medium to coarse grained, and is usually slightly iron stained with yellow-brown iron oxide. There is a larger area of quartz monzonite, medium to coarse grained, approximately 3,000 feet northeast of Mesa peak in Long Valley, which will be discussed in more detail in the B-6 report.

Granitic and aplitic intrusive (G) - occurs approximately $\frac{1}{2}$ mile north of the Afterthought, and is 2,500 feet long and 1,000 feet wide, being elongated in a northeasterly direction. This rock contains 55% orthoclase and microcline, 20% plagioclase, 5% quartz, 5-10% green hornblende, 3-10% augite, and 1% sphene. Another specimen shows 45% microcline, 2-5% plagioclase, and 30-45% quartz, being alaskitic in composition. This intrusive is usually highly siliceous and fine grained. There are several quartz "blow-outs" around this hill. On the west side it is associated with rose quartz and large crystals of microcline. Numerous veins of quartz cut the diorite to the west, and may be genetically related to this granitic-aplitic intrusive. This granite has metamorphosed the Mesozoi'c sediments to schists, recrystallized limestone, slates, quartzite, calc-silicates, and skarn. There are numerous small propspects along the contact zone. Antimony has been mined in one prospect (Lawrence, 1963). Copper occurs as green stains and coatings

Lawrence, Edmond F., (1960) Antimony deposits of Nevada, Nevada Bureau of Mines, Bull. 61, p. 124.

in the metamorphics along the flanks of the granite.

Tertiary Rocks

Tuffs (VI) - There is a thick section of tuffs in the Afterthought area varying in composition from crystal tuff, lapilli tuff, vitric tuff, welded tuff to agglomerates, with interbedded vitrophyres and glassy flows. These rocks appears to have covered most of this area at one time, occuring overlying the granodicrite in the basin 1,000 feet east of the Afterthought shaft at an elevation 300 feet above the shaft. This unit is the same as the VI tuff in the Calico area to the east, with local variations in the glassy units. These vitrophyres and glassy flows probably had a local origin. The coloration in the tuff appears to be thermal in origin, and associated with later intrusives and extrusives. It would be possible to work out a detailed section for correlation with the Calico area, but this did not appear desirable in the present investigation. These tuffs are usually well indurated, especially near the intrusives and extrusives. Two horizons in the tuff contain considerable petrified wood.

Andesite flows (V 6, V 21) - These flows and intrusives are similar to the V 6 andesite intrusives in the Calico area. They are composed of up to 40% plagic clase laths and 10-20% hornblende phenocrysts in an aphanitic ground-mass.

Rhyolite flows and intrusives (V 8, V 20) - These flows and intrusives occur only as small outcrops along northwesterly faults near U.S. 95. They are aphanitic with occasional phenocrysts of feldspar and quartz, and with flow structure.

Andesite flows and intrusives (V 22) - This unit occurs chiefly west of U.S. 95 and north of the Weber Reservoir road, around the south and east flanks of the granodiorite. It is somewhat similar to the V 21 in composition and texture, but contains less plagicclase phenocrysts. The vents for the flows appear to be in the basin southeast of the Afterthought shaft, and along the south flank. One such plug cuts the granodiorite-V 1 tuff contact, changing the tuff to lavender and greenish in color and the granodiorite to a reddish brown up to 50 feet wide. This V 22 appears to be partially correlative with the V 22 flows.

Andesite flows (V 18) - Thei flow is magnetic, and may account for the magnetic anomaly over U.S. 95. It is dense, dark gray to black, with phenocrysts up to 1/8 inch of hornblende, biotite, and plagioclase, and with 1-2% magnetite.

Andesitic to intermediate flows (V 26) - This unit occurs in the area south and southwest of the mine area. It is usually thin-bedded, with hornblende and plagioclase phenocrysts.

Quaternary Rocks

Basaltic flows (V 37) - Restricted to the northeast side of the area, but similar to V 19 on the southwest side. It is thin-bedded, dense, with occasional plagicclase phenocrysts and magnetic in some areas. Appears to be from a local vent.

Bassitic flow (V 19) - Same as V 37 above, except on southwest side of area.

Trachybasalt (V 29) - This unit occurs 1 mile northwest of the Afterthought

shaft and south of Mesa peak. It is dense, dark gray to black in color, with a glassy matrix.

Andesite flow (V 36) - This unit occurs as a distinct flow 1,000 feet wide and 3,000 feet long, northest of Mesa peak in Long Valley. It is lighter in color than V 35, aphanitic, with a few phenocrysts of plagioclass and hornblende.

Basalt - Andesite flow (V 35) - This flow, overlying V 36 in part, is 100 to 500 feet wide and at least 4,000 feet long. It is dense, black in color, with occasional phenocrysts of plagioclase and hornblende. It is overlained by V 31.

Basic flows - undifferentiated (V 34) - These flows north of Long Valley were not mapped in detail, but may be correlative with some of the basic flows in this report. They will be described in reports B-6 and C-7.

Andesite and basalt flows and intrusives (V 31) - This unit occurs around Mesa peak and appears to originate in a vent on its side. The basal part of this unit is an agglomerate up to 600 feet thick on the northeast slope of Mesa peak and 50 feet thick on the southwest slope. In places this rock is prophyritic, and partially trachybasalt and trachyandesite. Basalt flows of this unit may account for the aerial magnetic anomaly southwest of Mesa Peak, but probably not account for the larger magnetic anomaly covering the Afterthought area and extending west and southwest of Mesa Peak.

Basalt flows and intrusives (V 30) - This unit occurs co-extensively with V 31, and may be partly intercalated. It is usually dense, black in color, with few phenocrysts, but in places porphyritic, with phenocrysts of plagioclase, sanidine, and hornblende. It contains some andesite and trachybasalt. The vents for these flows appears to be on the side of Mesa peak.

Lacustrine deposits (QS) - Lake sediments, Lahontan in age, occurs along the southwest side of the area, and are up to 280 feet in thickness. They contain a vitric tuff bed that has been mined for pumice, and used locally for pumice blocks. These beds have been tilted and faulted. They extend within 2,500 feet of the Afterthought shaft, to an elevation of 4800 feet.

Alluvium and Sand (Al, S) - Much of the area of interest is obscured by alluvium and wind-blown sand.

Structure

This area lies along the same strike-slip fault zone as the Bounder, Hottentot, and Calico previously mapped and described (1966, Calico Report, Walker Martel files; 1965, Hottentot Report, AIME meeting, Reno). Faulting along this zone since Miocene time appears to be in the order of 2,000 feet with a right lateral movement. Movement of this magnitude could not be detected in the Calico and Afterthought areas. However there is evidence of smaller increments of movement of a right lateral nature in this area. These N 200N to N 400N faults are off-set in places by northeasterly faults, part of which is left lateral. This northeasterly set of faults may be equally important in the Afterthought area. There is some evidence that these faults have step-faulted the granitic rocks downwards to the east

towards the Calico area. These two sets of faults mutually cut each other. The IP anomaly in the Afterthought area appears to be along such a N 50°E structure, and the granitic-aplitic intrusive is elongated northeasterly between a N 40°E and a N 50°E fault. Both sets of faults cut the Iahontan lake sediments, with displacements up to 20 feet. There is some evidence of movement along the N 40°W faults in the past few years.

There is a strong possibility that this northwesterly-trending zone has been the structural control for the emplacement of the Mesozoic granitic bedies as well as the Tertiary intrusives and extrusives, and the Quaternary vents and flows. The Calico area appears to have been a center of volcanic activity throughout Tertiart and Quaternary time, while the Mesa peak area appears to have been most active in late Tertiary and Quaternary time.

Doming and other features might be suspected, but must await further study of the areas to the west and north.

Summary

The Afterthought area lies in an area of Mesozoic, intruded by a series of granitic and aphanitic igneous rocks, metamorphosing the sediments to a series of schists, slates, recrystallized limestone, calosilicates, and skarn. The igneous complex consists of gabbro, diorite, granodiorite, quartz monzonite, fine-grained intrusive(?), granite, alaskite, and pegmatite. These rocks are probably an extension of the dioritic bodies of the Calico area, and may represent a topographic high in Tertiary time. The differentiation of this magma may have provided a mineral-rich solution to form an ore-deposit. The area immediately west of the Afterthought shaft provides a good environment and structural control for such a deposit. IP data indicates an anomaly along this zone, and recent IP work (Oral Com., Redmond) indicates this anomaly bends around to the south. Exploration to the north across the granitic and dioritic areas with IP produced weak to negative results.

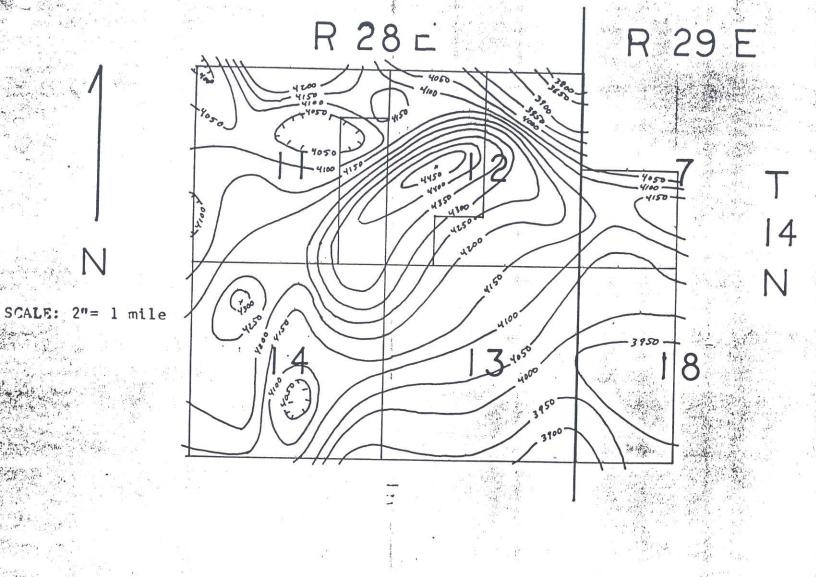
Drilling in this area at AF 1, 2, and 3 drill holes indicates interesting mineralization, confirming the ealrier IP enomalies, although not of economic significance. Further drilling should be done in this area and to the southwest and south along the anomaly to adequately test it.

Edmond F. Lawrence

Mining Geologist

Reno, Nevada

April 16, 1966



Aeromagnetic Map--AFTERTHOUGHT PROSPECT

Walker River Palute Reservation

Magnetic contours drawn at 50 gamma intervals

ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

P. O. Box 2217, 1870 South 2nd West St. SALT LAKE CITY, UTAH 84110

ANALYTICAL REPORT

Phone 466-9172 Area Code: 801

Date 1

10/11/65

AFTERTHOUGHT

Page 1 of

Client

Mr. Wm. L. Wilson Walker-Martel Mining Co. 1080 Pine Ridge Drive Reno, Nevada

Report on: 55 rock samples

Submitted by: Mr. Wilson

Date:

9/24/65

Analysis: Copper, Zinc, Lead & Molybdenum

Remarks: All analyses done colorimetrically. One copper assay reported below.

cc: Enc.

file

JJJ:ab

Sample No. %Copper

AF-3E-14.5N

0.56

* 11	Sample No.	Copper	Zinc	Lead	<u>Molybdenum</u>
	Af-3W-Zero	20 💉 🥳	10	5	R
	AF-3W-1S	30	5	5	1
4	AF-3W-2S	15	5	5	3.**
	AF-3W-1N	210	5	5	7
	AF-3W-7N	25	50	10	22
	AF-3W-8N	400	15	5	10
	AF-3W-9N	45	30	10 -	4
	AF-3W-10N	60	15	5	4
	AF-3W-11N	10	30	5	3
40	AF-3W-12N	20	30	5	6
7	AF-9W-Zero	130	10	10	12
' (Bot. Anom. of 900W	180	40	10	7
	AF-9W-1S	110	15	10	148
	AF-9W-2S	20	. 10		-5
	AF-9W-3S	220	10	5	9
35	AF-9W-4S	20	5	5	
	AF-9W-5S	10	5	5	4
	AF-9W-1N	70	115	5	10
	AF-9W-2N	85	35	5	3
	AF-9W-7N	55	15	10	3
	AF- 9 W-8N	20	20	5	3
	AF-9W-9N	45	15	10	6
	AF-9W-10N	20	40	-5	4
ii.	AF-9W-11N	25	20	5	4
	AF-9W-12N	10	5	-5	9
tagi ≸jar					,

*	Sample No.	Copper	Zinc	Lead	Molybdenum
	AF-9W-13N	20	AND THE RESERVENCE	S. A. S. A.	
	AF-9W-15N		20	-54 ·	· - > - 1/2 · · · · · · 3
		15	15	5	2
	AF-3E-2N	25	10	_5.T.	2
	AF-3E-3N	20	10	– 5	3
	AF-3E-4N	30	10	. 10	3
	AF-3E-5N	200	15		
	AF-3E-6N	115	45		5. S
	AF-3E-11N	65	. 35	_5	
	AF-3E-12.5N	65	5	5	
	AF-3E-14N	55	95	10	_
	AF-3E-14.5N	+1000	100		5
	AF-3E-15N	20	30	3	5
cep Shalt. c	AF-Dump-Chlor			. 10	. 3
, , ,	AF-9E-2N	15	15	5	. 29
and the second	AF-9E-3N	10	5	-5	3
	AF-9E-4N		10	5	3
	AF-9E-5N	90	10	5	5
	1.20	50	10	10	28
	AF-9E-6N	45	5	5	3
	AF-9E-7N	110	10	10	9
2	AF-9E-8N	300	40	15	43
	AF-9E-9N	50	5	10	6
	AF-9E-10N	15	45	10	
**	AF-9E-13N	15	50	5	3
E ARCA	AF-Skarn in Rd	l.Cut 105	10	5	3
	AF-15E-4N	10	5	5	4
.72					3

	C1 - 17-			3,
	Sample No.	<u>Copper</u> Z	inc Lead	Molybdenum
	AF-15E-5N	15	5 5	3
	AF-15E-6N	30	5 5	5
	AF-15E-7N	. 5 , ε	30 25	3.7
	AF-15E-8N			
			35 10	3 ,
1	AF-15E-9N	5	20 5	

Rocky Mountain Geochemical Laboratories' Salt Lake City, Utah October 11, 1965

James T Townson

Idaho Mining Corporation

POST OFFICE BOX 1315 . PHONE 323-1324 . RENO, NEVADA

April 4, 1963

Saga Exploration & Development Co., Inc. 1455 G Street, N. W. Washington 5. D. C.

Notice of Discovery, Re: BOO BOO PROSPECT

Attention: Hr. Harold E. Rainville, Fresident.

Dear Mr. Rainville:

Fursuant to our Letter Agreement of January 23, 1963, and the subsequent modification dated March 13, 1963, notice is hereby given that Idaho Mining Corporation has made a "discovery" of mineral, as provided in paragraph 4 of said letter agreement of January 23. For purposes of identification, we are calling this discovery the "Boo Boo Prospect".

The land claimed in this discovery is the SZ4 of Section 1, T 14 N, R 28 E, MDBGM, Lyon County, Nevada, and covers approximately 160 acres. This land has been surveyed and subdivided.

The enclosed maps show the magnetic amomaly and ground magnetic work done on this prospect. We are also furnishing magnetic profiles across the anomaly for your perusal,

This anomaly is probably occurring over a relatively small but shall iron ore occurrence. There are no outcrops of iron ore nearby, however the geologic conditions are favorable for this type of deposition. We will probably do some additional geophysics on this prospect before drilling, and will keep you advised of the progress.

This anomaly is in one of the areas which we had considered favorable from our reconnaissance prospecting of last April. We are continuing to do further ground work until the Aerial magnetic work is completed.

encl:

Yours very truly,

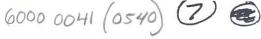
IDAHO MINING CORPORATION

map, 800 Boo Prospect, 1" = 200' map, 800 Boo Prospect, 1" = 50' 10 profiles, Boo Boo Prospect

By: Win. L. Wilson, Mgr. Exploration

certified mail No. 525970 return receipt requested.









y mountain geochemical

SPARKS-RENO, NEVADA 89431 · PHONE: (702) 359-6311

Certificate of Analysis

Page 1 of	
RMGC Numbers:	
Local Job No.:7.4-2:1-33	F
Foreign Job No.:	
Invoice No.: 8940	

Date:

July 27, 1974

Client:

Idaho Mining Corporation

521 Gordon Avenue

Reno, Nevada

Client Order No.:

None

Report On:

40 cutting samples

Submitted by:

John Volgamore

Date Received:

July 23, 1974

Analysis:

Copper, Molybdenum, and Gold

inalytical Methods:

Molybdenum analysis is determined colorimetrically. All other analyses are determined by atomic absorption.

Remarks:

None

cc:

Enclosed (2)

RMGC File

GMF:sp

Page______ of_____

Sample	No.		ppm Coppe	er	ppm Molybdenum	ppm Sensitive Gold
AF1	2	10-20	75		5	-0.05
	3	20-30	35		4	0.05
	4	30-40'	40		5	-0.05
	5	40-50	65		4	-0.05
	6	50-60	55		6	-0% 05
	7	60 - 70	40		5	-0.05
	8	70-80	40		2	-0.05
	9	80-90	30		2 '	-0.05
AF1	10	90-100	30		2	-0.05
AF2	1	0-10'	205		8	-0.05
	2	10-20'	330		22	-0.05
	3	20.30	410		17	0.05
AF2	4	30-40	280		20	0.20
AF3	1	0-10	240		11	-0.05
	2	10-20	50		1	-0.05
	3	20-30	120		11	-0.05
	4	30-40	600		6	-0.05
	5	40-50	100		2	-0.05
	6	50-60	80		3	• 00,05
	7	60 -70	60		2	-0.05
	8	70-80	95		1	-0.05
	9	80-90	85		1	-0.05
	10	90-100	` 100		-1	-0.05
AF3	11	100-110	125		2	-0.05

7

Page____3 of___3

Sam	ple	No.		ppm Copper	ppm Molybdenum	Se	ppm ensitive Gold
AF	4	3	20-30	75	2		-0.05
		4	30-40	50	2	ž	-0.05
		5	40.50	220	3		-04.05
		6	50-60	140	5		-0.05
		7	60-70	250	б	5	-0.05
		8	70-80	250	3	- 4.	-04.05
		9	80-40	160	8		-0:.05
		10	90-100	205	10	7. -	-01.05
		11	100-110	180	4 .	s-	-0'.05
		12	110-120	100	3		-04.05
		13	(20-130	65	2		-0.05
		14	180-140'	55	6	-	-0:.05
		15	140-150	65	6		-0.05
		16	150 -160.	70	8	,	-0.05
		17	160-170	50	5		-0.05
AF	: 4	18	170-180	65	11	2	-0.05

By Minn the city

Gary M. Fechko

Rocky Mountain Geochemical Corporation Sparks, Nevada July 27, 1974

AF-6.

From 1 7/2 20 Au 1/9 8:00 642 1.54 .012 Fr .10 1 654 666 .012 No 4, 10 666 678 .018 Fr .16 11011 678 690 .018 .005 No.

Page	2	of	_2_
10,000			

Sam	ple No.	ppm Copper	ppm Molybdenum	ppm Gold
AF	-7=12 110-12	0 40	3	-0.05
	8-12 /11-12	• 160	2	-0.05
	9-12 110-12	40	1	-0.05
	10-320.30	190	· = 1	-0.05
	10-12 10-11	50	8	0.05
AF	1:1-1:2 110-12	.0 55	- 1	-0.05

Gary M. Fechko

Rocky Mountain Geochemical Corporation Sparks, Nevada August 7, 1974

Sample No.	ppm Copper	ppm Molybdenum	ppm Sensitive Gold
AF -7- (1 0-10	45	3	-0%05
2 10.6	70	5	-01.05
3 20.	95	3	~ 01.05
4 30.4	130	4	- 0r. 05
5 40-1	90	3	- 0.05
6 57-	165	10	-04.05
7 60-	70 45	5	- 0·.05
8 70-	76 25	4 .	-0.05
9 20-	90 45	3	-0,05
10 %	25	3	-0'.05
11 100-	·n• 50	10	-0.05
13 120	136 35	4	-0.05
14 130.	140 30	4	-0.05
15 140.	20	2	-0.05
16 150	-166 20	3	-01.05
17 160	·170 15	8	- 04.05
18 170	-180 30	5	-0,05
19 170	·190 50	8	-0.05
7- 120 190	·200 45	10	= 01,05
-8- 10-	10' 135	8	-0.05
2 10-	20 150	3	- Or. 05
3 20	3. 180	4	-0.05
4 30	105 و٠٠	2	-0,05
AF '8- 5 40	75	- 10	-01.05

Page ______ of ____

Sample No.	ppm Copper	ppm Molybdenum	ppm Sensitive Gold
AF -8- 1 6 50-60°	100	1	-01.05
7 60.70	185	1	- 01.05
8 70-80	110	1	- 0:.05
9 80-90	80	1	- 0r. 05
10 90-100	90	1	-0.05
11 100-110	265	1	-0.05
13 120.130	65	1	- 0r. 05
14130-140	50	- 10	-0.05
15 140 -151	50	1	-01.05
16 150-160	55	3	-01.05
17100-170	50	3	-0.05
18 170 -18	55	3	-0 ,05
19 130-191	45	4	-01.05
-8- 120 190-20	4 0	4	-0,05
9- 1 -10	50	10	-0.05
2 10-20	155	8	- 0r . 0 5
3 20-30	135	3	- 01.05
4 30-40	40	3	- 01.05
5 40-50°	110	3	-0,05
6 50-60	80	- 11	- Or. 05
7 60-70	45	1	-0,05
8 70- \$	5.5	4	-01.05
9 76-90	70	. 4	-0,05
AF 9- 10 9	35	3	- 04.05

			y
Sample N	ppm Io. Copper	ppm Molybdenum	Sensitive Gold
AF -9- 1	1 100-110 30	2	-0'.05
1	3120-130 25	10	- 0 ₁ .05
1	4 130.140 45	3	-01.05
1	15140-150 50	3	-0.05
1	16 150.160 40	3	-0.05
- 3	17 160-170 40	2	-0.05
3	18 170-180 45	3	- 0:.05
	19 180-190 45	3	-0%.05
	20 140-20 50	3	- 0r. 05
·9= 1	20.1 50	3	-0,05
1:0-	1 0 10' 60	3	-0.05
	2 10-20 175	2	-0,05
	4 % - 40 110	2	-0 :.05
	5 40.50 90	1	- 01.05
	6 50-60 75	- 11	- Or 0 5
	7 60-70 45	- 10	- 0r . 0 5
	8 70-80 30	1	-01.05
	9 80-90 20	6	- 0r. 05
	10 90-100 35	11	- 04.05
	11 100-110 40	5	-0.05
	13 120-130 40	5	-0.05
	14 130-140 40	4	-01.05
	15 140 - 150 40	3	-0 ₁ .05
AF 10-	16 150-160 45	2	- 01. 05

Page _____5 of _____6

5)			FI.	ppm
Sample	No.	ppm Copper	ppm Molybdenum	Sensitive Gold
AF. 10-	17 /60-170	35	3	-0.05
	18 170-110	120	4	-0.05
	19 190-190	45	5	-0·.05
	20 140-200	50	10	- 01.05
	21 200-21	6 40	13	-01.05
	22 210-62	55	13	-0.05
	23 220-2	30 65	10	- 0', 05
	24 230-24	50	10	-01.05
	25 240-2	55	10	-01.05
	26 190-1	60 50	11	= 0r _s 0.5
	27 260-2	70 60	10	- O. 05
	28270-2	r 55	3	-0.05
1.0 -	28.7	. 50	4	-01.05
1:1-	1 0.10		-11	~ 0.05
	2 10-2	10	- 10	-04.05
	3 20-	5	- 1'	-0.05
	4 30-4	5	-10	-01.05
	5 40-5	20	-1	-01.05
	6 50 -60	15	- 10	-0.05
	7 60-70	20	- 11	-0,05
	8 70-7	20	-10	-0.05
	9 80 9		- 11	-0.05
	10 40-10	65	- 10	- 01.05
AF 1:1-	11 100-1	85	- 10	-0.05

Sample		opm Copper	ppm Molybdenum	ppm Sensitive Gold
AF 11-	13 120-130	65	- 10	-0.05
	14 130-140	75	· - Ir	-0,05
	15 140-150	85	1	-0.05
	16150-160	50	4	- Ot. 05
: #44 25	17160-170	65	10	-0.05
	18 170-150	90	17	-0.05
	19 150-190	50	16	→ 0·.05
	20160-200	25	15	-0.05
	21200-210	35	16	-01.05
	22 210.220	25	4	= 01. 05
AF I:1=	23220-230	40	15	-0.05

Gary M. Fechko

Rocky Mountain Geochemical Corporation Sparks, Nevada August 27, 1974



Certificate of Analysis

		6	
age	1	of	

RMGC Numbers:

Date:

Client:

August 27, 1974

Idaho Mining Corporation

P. O. Box 2183

Grand Junction, Colorado

81501

Foreign Job No.:.... 9120 Invoice No.:..

Local Job No.: 74-25-16R

Client Order No.:

None

Report On:

107 drill cutting samples

Submitted by:

John H. Volgamore

Date Received:

August 12, 1974

Analysis:

Copper, Molybdenum, and Gold

Analytical Methods:

Molybdenum analysis is determined colorimetrically. All other analyses are determined by atomic absorption.

· Remarks:

None

cc:

Enclosed

Idaho Mining--Reno, Nevada

RMGC File

GMF:sp

Wille ?!!

All values qr

of the chiest

Samp.	le No.	ppm Coppe:	r	ppm Molybdenum	ppm Sensitive Gold
AF ·	7- 1 1 0-10	45		3	-0,05
	2 10-20	70		5	-0,05
	3 20-20	95		3	-0,05
	4 30.40	130		4	-0.05
	5 40-G	90		3	-0.05
	6 50-40	165		10	-0.05
	7 60-7	45		5	-0.05
	8 70-8	25		4	-0.05
	9 80-40	45		3	-0.05
	10 90-16	25		3	-0'.05
	11 100-11	50		10	-01.05
	13 120.1	35 35		4	-0.05
	14 130-14	30		4	-0'.05
	15 190-15	20		2	-0,05
	16 150-11	20		3	-0.05
	17 160-17	15		8	-0.05
	18 170-1	30		. 5	-0,05
	19 180-1	50		8	-0'.05
	7- 120 190.2	00 45		10	≈ 01.05
	8- 1 0-10	135	,	8	-0.05
	2 10-20	150		3	-01.05
	3 20-30	180	¥	4	-0.05
	4 30.40	105		2	-0.05
AF ·	8- 5 40-5	75		- 10	-01.05



Client

3 of _ Page _

			ppm
Sample No.	ppm Copper	ppm Molybdenum	Sensitive Gold
AF .8= 1 6 50-60	100	1	-01.05
7 60.70	185	1	-0.05
8 70-86	110	1	~ 04.05
9 80-90	80	1	-0,05
10 90-70	90	1	-0.05
11 100-11	265	1	-0.05
13 120-1	65	1,	- 01. 05
14130-1	10 50	11	-0,05
15 140.1	50 50	1	-04.05
16 150-1	5 5	3	-0'.05
17100 -17	50	3	-0.05
18 170 -	55 55	3	= 0° . 05
19 180-1	% 45	4	-01.05
8- 120 190-1	40	4	~ 0: _• 0 5
9- 1 0-18	50	10	-0.05
2 10-21	155	8	~ 0 • 0 5
3 20-3	o 135	3	-0.05
4 30.4	• 40	3	-0.05
5 40.57	110	3	-0.05
6 50-6	6 80 ·	- 10	-01.05
7 60-7	45	1	- 0'. 05
8 70.	55 ′	4	= 0r. 05
9 16-9	• 70	4	- 0 ₁ ,05
AF 9- 109.0	35	3	- 0r. 05

Client_

Page __ 4 of 6

Sample No.	ppm Copper	ppm Molybdenum	ppm Sensitive Gold
AF '9= '11 100-111	30	2	-0'.05
13/20-13	25	10	~ 0·. 05
14 130-14	• 45	3	-0.05
15140-157	50	3	- Or. 05
16 150.16	• 40	3	-0.05
17 160-17	• 40	2	~ 01 . 0 5
18 170-18	45	3	- 01. 05
19 180-19	• 45	3	- 01.05
20 190-2	50	3	- Or. 05
9- 20.1	. 50	3	- Or. 05
10- 10-10	60	3	- 0 ₁ .05
2 10-20	175	2	-0.05
4 % - 40	110	2	= 0' _a 05
5 44 50	90	1	- 01. 05
6 50.60	75	= 1 f	- Or. 05
7 60-70	45	~ 1·	-0.05
8 70 - 80	30	1	-0,05
9 50-90	20	6	-0.05
10 90-100	35	11	-0.05
11 100-110	40	5	-0.05
13 120-136	40	5	-0.05
14 130-14	40	4	-0.05
15 140 - 15	40	3	~ 0.05
AF 10- 116 157-161	45	. 2	- Or. 05

Page _____ 5 ___ of ____

Sample	No.	ppm Copper	ppm Molybdenum	ppm Sensitive Gold
AF 1:0=	17 /60-17	o° 35	3	- 0.05
	18 170-11	120	4	-0.05
i i	19 190-14	45	5	-0.05
	20 190-20	· 50	10	- 01. 05
	21 300-z	10 40	13	= 01 a 0 5
	22 210-2	20 55	13	-0.05
	23 220-2	30 65	10	- 0.05
	24 230-2	10 50	10	-01.05
	25 240-2	ss 55	10	-01.05
	26 190-1	50	11	-0.05
	27 24.2	70 60	10	- O. O.S
	28270-2	n 55	3	-0.05
1.0 -	28.7	. 50	4	-0.05
11-	1 0 -10		- I'	-0.05
	2 10-2	.0 10	- 11	- 0.05
	3 20-	30 5	- 1'	-0.05
	4 30-	(° 5	- 1	-0.05
	5 40-5	20	- 1	-0'.05
	6 50 40	15	- 11	-0 ₀ 05
	7 60-70	20	- 11	-0 .05
	8 78-7	20	- 10	-01.05
	9 80 4	0 15	- 11	-0.05
	10 40-11	65	- 1	-0.05
AF 11-	111 100-11	e 85	- 11	-0.05

Client

Page _ 6 _ of _ 6

Sample	No.	ppm Copper	ppm Molybdenum	ppm Sensitive Gold
AF 1:1-	13 120.13	65	· - 1:	- 0, 05
	14 130-140	75	· • I	-01.05
	15 140-150	85	1	~ 0′• 0 5
	16150-160	50	4	- Ot. 05
	17160-17	65	10	- 0/ . 05
	18 170-18	90	17	-0.05
	19 150-190	50	16	- 005
	20160-200	25	15	- 0/.05
	21200-21	35	16	- Or. 05
	22 210.22	. 25	4	- 01.05
AF 1:1=	23220-23	40	15	-0,05

Ву

Gary M. Fechko

Rocky Mountain Geochemical Corporation Sparks, Nevada August 27, 1974





ROCKY MOUNTAIN CEOCHEMICAL CORP.

840 GREG STREET · SPARKS-RENO, NEVADA 89431 · PHONE: (702) 359-6311

Certificate of Analysis

Page 1 of
RMGC Numbers:
Local Job No.: 74-2:5-1:4R
Foreign Job No.:
Invoice No.: 9139

Date:

August 28, 1974

Client:

Idaho Mining Corporation

P. O. Box 2183

Grand Junction, Colorado

Client Order No.:

None

Report On:

138 drill cutting samples

Submitted by:

John H. Volgamore

Date Received:

August 12, 1974

Analysis:

Copper, Molybdenum, and Sensitive Gold

Analytical Methods:

Molybdenum analysis is determined colormetrically.

All other analyses are determined by atomic absorption.

Remarks:

None

CC:

Enclosed

Idaho Mining-Reno, Nevada Idaho Mining-Eureka, Nevada

RMGC File

GMF:sp

All values are reported in parts per million unless specified otherwise. A minus sign (—) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

ND — None Detected

1 ppm — 0.0001%

1 Troy oz./ton — 34.286 ppm

1 ppm — 0.0292 Troy oz./ton

Page _____ 2 of ___ 7

						bbш
Sam	ple No			pm Copper	ppm Molybdenum	Sensitive Gold
AF	1.2- (1	0-10	75	1	-01.05
	6 9	2	10-20	90	2	-0.05
		3	20.30	30	4	- 01.05
		4	30 -40	25	~ 11	-01.05
		5	40-50	20	. 5	-04.05
		6	60-60	25	10	- Or. 05
		7	60-70	15	13	-04.05
		8	70-80	20	15 ,	- Or • 05
	ie ei	9	80-90	20	17	- 0r. 05
		10	90-100	30	20	-06.05
		11	100-110	45	20	-01.05
		12	110-120	45	11	-01.05
		13	120-130	45	4	- 0r. 05
		14	130-140	35	6	- 0r. 05
		15	140-150	30	8	- 0r. 05
		16	150-160	35	13	= 0r. 05
		17	160-170	45	3	-01.05
		18	170-180	45	5	-04.05
		19	180-190	55	6	-01.05
		20	190-200	50	4	-0 1, 05
		21	200-210	5.5	- 11	- Or. 05
		22	210-22	40	- +10	-01.05
		23	220-23	35	- 10	-01.05
AF	1:2-		230-23		· = 1t	- 0r. 05

3

Sample No.	ppm	per	ppm Molybdeni	ppm nsitive Gold
AF 13- (1	0-10' 65		- 10	-01.05
2	10-20 50		1	-01.05
3	20-30 55		29	-01.05
4	30-40 80		25	-01.05
5	40-50 ° 50	(6	-01.05
6	50-60 50		15	-06.05
7	60.70 90	1	- 10	-01.05
8	70-80 75		1 1	-01.05
9	30-90 80)	2	-01.05
10	90-100 ° 50)	1	-04.05
11	180-110 40)	2	-01.05
12	110-120 45	5	4	-01.05
13	120-130 40)	5	-01.05
. 14	130-140 40)	3	- 0r. 05
15	140-150 40)	6	-01.05
16	150-160 45	5	10	-0,05
. 17	160-170 45	5	- 10	-01.05
18	3 170-180 45	5	1	-01.05
19	180-190 40	0	2	-0.05
20	190-200 4(0	3	-0.05
21	1 200-210 5	5	4	- 01. 05
22	2 210-226 40	0	5	-01.05
23	3 220-230 50	0	8	= 0r. 05
AF 1:3= 124	4 230-240 5	0	3	-01.05

Client

Page _____4 of ____7

Sample No.	ppm Copper	ppm Molybdenum	ppm Sensitive Gold
AF 1:3- 125 240-25	40 و	3	- Or. 05
AF 1:3- 25.6	. 85	19	= 01. 05
AF 1:4- (1 0-10		1	- 0r. 05
2 10-20	75	2	- Or. 05
3 20.30	60	2	-01.05
4 30.46	95	1	-0% 05
5 40.50	110	1	- Or. 05
6 50-61	85	2 *	-, 01. 05
7 60-70	. 20	2	→ 01. 05
8 70-30	50	4	70.05
9 10-40	895	10	-01.05
10 90-100	500	2	-01.05
11 100-11	270	· = 10	- 01. 05
12 110-12	50	1	-0,05
13 120-13	40	1	-01.05
14 170 -1	40 55	11	-04.05
15 140-15	175	15	-01.05
16 150-10	80	10	-01.05
17 160-1	76 75	13	= 0r. 05
18 170 -1	* 55	8	-01.05
19 180-1	90 75	3	-04.05
20 190-20	× 55	5	-04.05
21 200-2	50	8	- Or . 05
AF 14- (22 210-)	i 50	10	-01.05

Page _____5 of ___7

Sample No.	ppm Copper	ppm Molybdenum	ppm Sensitive Gold
AF 14- (23 230-2)	40	5	- Or. 05
24230.24	115	8	- Or. 05
14- 124.7	235	10	- 0r. 05
15- 1 1 0-10	20	2	-06.05
2 10.20	20	5	-01.05
3 20.38	• 120	11	-01.05
4 30-4	50	6	-01.05
5 40-5	40	5 '	-01.05
6 80-60	65	8	-01.05
7 60-76	180	5	-01. 05
8 70-8	200	5	- 0r, 05
15- 48.7	225	11	-0.05
16- 10-10	310	11	-0.05
2 10-20	380	3	-0.05
3 20-30	175	8	- 01.05
4 30.40	140	5	- Or. 05
5 40-9	335	.30	-0,05
6 50-60	395	66	-01.05
7 60-7	200	28	- 01. 05
8 70-81	590	28	-01.05
16- 9 80-4	200	26	≈ 01 ₆ 0 5
1.7- 1 0-10	205	25	-01.05
2 10-20	315	8	-01.05
17- 3 20-3	95	5	-01.05

Page _____6 ____7

Sample No.	ppm Copper	ppm Molybdenum	ppm Sensitive Gold
AF 1:7- (4	30.40. 80	16	- Or. 05
5	40-50 145	8	-01.05
6	\$2.40 110	8	-04.05
7	60-70 50	10	-01.05
8	70-80° 35	10	-04.05
9	10-10 60	4	-04.05
10	90-100 270	3	-01.05
11	100-110 240	6	= 0r. 05
12	110-120 235	8	~ 0€.05
13	120-130 220	11	-01.05
14	130-140 90	3	-01.05
15	140-150 120	3	-01.05
16	150-160 95	4	-0.05
17	160-170245	3	-01.05
18	170-180 405	5	0.05
19	140-190 370	8	0.10
20	140-200 130	8	=01.05
21	200-210240	13	-01.05
22	210-220 95	28	-01.05
23	220.230 65	19	-01.05
24	230-24.105	4	-01.05
1:7- (25	240-250 100	8	- 0r _e 05
18- 1	o-10 60	20	- 0€.05
AF- 118- 12	10-20 50	5	=01.05

Page ______7 of _____7

Sample No.	ppm Copper	e 6	ppm Molybdenum	ppm Sensitive Gold
AF- (18- (3 20.30	295		2	- Or. 05
4 30-40	475		13	-01.05
5 40-50	875		44	-01.05
6 9-60	650		49	-01.05
7 60-70	0.13%		44	- Or. 05
8 70-30	675		20	-01.05
9 %-%	330		22	- 0r. 05
10 %-100	555		17	-04.05
11/00-110	320		3	- 0r. 05
12 110-12	360		4	-04.05
13 120-130	370		16	0.05
14 130-14	260		19	-04.05
15 140-15	110		8	- 01.05
16,576	160		6	0.05
17 /60-17	100		3	-04.05
18 170-12	95		8	-0.05
19 120-10	70		5	= 0r. 05
AF 18- 119.8	. 125		19	= 0r _* 0 5

By Myn Diccoo

Gary M. Fechko

Rocky Mountain Geochemical Corporation Sparks, Nevada August 28, 1974



ROCKY MOUNTAIN GEOCHEMICAL GORP.

6000 0041 (0540)

Page 1 of 5.....

Local Job No.: 74-31-21R

Foreign Job No.:

Invoice No.: 9410

RMGC Numbers:

840 GREG STREET . SPARKS-RENO, NEVADA 89431 . PHONE: (702) 359-6311

Certificate of Analysis

Date:

October 10, 1974

Client:

Idaho Mining Corporation

P. O. Box 2083

Grand Junction, Colorada 81511

Client Order No.:

None

Report On:

82 Drill cutting samples

Submitted by:

W. L. Wilson

Date Received:

Analysis:

Molybdenum, Copper and Gold

lytical Methodes

Molybdeaum analysis is determined colorimetrically.

All other analyses are determined by atomic absorption.

Remarks

None

œ

Enclosed
Idaho Mining Corp. Reno, Nevada
Idaho Mining Corp. Eureka, Nevada
RMGC
File

GMF: er

AFE S-W See Meno

All values are reported in parts per million unless specified otherwise. A minus sign (—) is to be read "less than" and a plus sign (†) "greater than," Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

ND — None Detected 1 ppm — 0.0001% 1 Troy ox./ton — 34.286 ppm 1 ppm — 0.0292 Troy ox./ton

	÷			
Sample No		ppm Copper	ppm Molybdenum	Oz/T Silver GOLD
AF-19-1	0-10'	100	-1	-0.003
2	10.20	8.5	-1	-0.003
3 .	20-30	75	-1	-0.003
4	30-40'	110	-1	-0.003
5	40-50	70	=1	-0.003
6	50-60	97	-1	-0.003
7	60-70	80	s ■ 1	-0.003
8	70-80	65	-1	-0.003
9	80-90'	75	-1	-0.003
10	90-100'	75	-1	-0.003
11	100-110	75	-1	-0.003
12	110-120	75	-1	-0.003
13	120-130	60	-1	-0.003
14	130 -140	75	•1	-0.003
15	140-150	65	-1	-0.003
16	150-160	60	-1	-0.003
17	160-170	100	-1	-0.003
18	170 - 180	60	-1	-0.003
19	180-190	60	-1	-0.003
20	190-200	75	-1	-0.003
AF-19-20.8	\$05-002	75	-1	-0.003
AF-20-1-	0-10'	50	-1	-0.003
2	10-20	55	-1	-0.003
3	20-30	50	-1	-0.003
4	30-40	125	-1	-0.003

Sample No.	p p Co	pper	ppm Molybden	um	Oz/T Silver Gold
AF-20-5 40	50.	85	-1		-0.003
6 . 5	3-60	75	-1	n	-0.003
7 60	0-70'	95	-1	2 2	-0.003
8 7	0-80	75 .	-1	g	-0.003
9 8	8-90	70	-1		-0.003
10	90-100	95	-1	d .	-0.003
11	100-110	75	-1	*	-0.003
12	110-120	50	-1		-0.003
13	120-130	35	-1		-0.003
14	130-140 .	85	-1		-0.003
15	140-150	60	-1		-0.003
16	150-160	60	-1		-0.003
17	160-170	9,5	-1	. 5	-0.003
. 18	170-180'	75	-1	***	-0.003
19	150-190	80	-1	i	-0.003
20	190-200	75	-1	(3)) 24:	-0.003
AF-20-20.8	200-208.	75	-1	(*)	-0.003
WD-243-1	7 = " -		N.	•	0.018
2		267 26)		46 ³⁴⁸	0.006
3		£	,		0.003
WD-243-3.6				i 9	0.006
WD-244-1	e e		ij ij		0.035
WD-245-1	•				0.053
WD-246-1					0.009
WD-246-2			; ;; =2		0.012

0.015

0.035

0.018

0.020

Sa	mple No.	8 9 W		Oz/T Gold
where wo	246-3			0.006
MD	247-1	, a		0.026
- <u>į</u>	2			0.009
	3			-0.003
	4			-0.003
WD	247-5		12 C 12 B 27	0.003
WD	248-1			0.012
	2			0.012
	3		Add.	0.009
WD	249-1	•••	* 7	0.029
	2			0.003
	3			0.009
3) ₍₆₎ (4	· •	- 9	0.003
ND	249-5	8: x	•	0.006
WD	250-1	_ >=		0.015
1 = 323 · · · · ·	2	787 G	48	0.006
	3		×	0.009
*	4	1	* 10	0.015
	250-5			0.018
WI	251-1		* *	0.038
	2	90. II aš		0.012

WD251-5

WD252-1

	*	
Sample No.	***********	Oz/T Gold
WD252-2	A	0.003
3		0.012
WD252-5		0.023
WD253-1		0.026
2	11 B (M. N) 2 A 0	0.061

Oct. 10, 1974 RMGC Job No. 74-31-21R

0.163

0.023

Idaho Mining Corp.

WD253-4

By Deckbo

Gary M. Fechko

Rocky Mountain Geochemical Corporation Sparks, Nevada October 10, 1974



ROCKY MOUNTAIN CEOCHEMICAL CORP.

840 GREG STREET · SPARKS-RENO, NEVADA 89431 · PHONE: (702) 359-6311

Page 1 of _____2

Foreign Job No.:

9008

7-4-2-3-36R

RMGC Numbers:

Local Job No.:....

Invoice No.:

Certificate of Analysis

D	а	t	e	:

August 7, 1974

Client:

Idaho Mining Corporation

521 Gordon Avenue

Reno, Nevada 89502

Client Order No .:

None

Report On:

6 rock samples

Submitted by:

J. Volgamore

Date Received:

August 2, 1974

Analysis:

Copper, Molybdenum, and Gold

Analytical Methods:

Molybdenum analysis is determined colorimetrically.

All other analyses are determined by atomic absorption.

Remarks:

None

Enclosed (2)

cc:

RMGC File

GMF:sp

All values are reported in parts per million unless specified otherwise. A minus sign (—) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission, ND \equiv None Detected 1 ppm \equiv 0.0001% 1 Troy oz./ton \equiv 34.286 ppm 1 ppm \equiv 0.0292 Troy oz./ton



6000 0041 (b)

ROCKY MOUNTAIN GEOCHEMICAL CORP.

840 GREG STREET · SPARKS-RENO, NEVADA 89431 · PHONE: (702) 359-6311

Certificate of Analysis

			3
0	4	-4	2
age	- 1	DI	*************************

RMGC Numbers:

Local Job No.:...7.4 = 2:1 = 33R

Foreign Job No.:....

Invoice No.: 8940

Date:

July 27, 1974

Client:

Idaho Mining Corporation

521 Gordon Avenue

Reno, Nevada

Client Order No.:

None

Report On:

40 cutting samples

Submitted by:

John Volgamore

Date Received:

July 23, 1974

Analysis:

Copper, Molybdenum, and Gold

Analytical Methods:

Molybdenum analysis is determined colorimetrically.
All other analyses are determined by atomic absorption.

Remarks:

None

cc:

Enclosed (2)

RMGC File

GMF:sp

All values are reported in parts per million unless specified otherwise. A minus sign (—) is to be read "less than" and a plus sign (+) "greater than." Values is reported in parts are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of the protection of this report or any part thereof without written permission.

3. and Defected 1 ppm = 0.0001% 1 Troy oz./ton = 34.286 ppm 1 ppm = 0.0292 Troy oz./ton

6000 0041 (0541)

Telephone 363-3302

Hand Sample Serial 7852-7866

UNION ASSAY OFFICE, Inc.

W. C. WANLASS, President L. G. HALL, Vice President G. P. WILLIAMS, Treasurer LILY M. HOTTINGER, Secretary P. O. Box 1528

Salt Lake City, Utah 84110

Robert L. Redmond

Reno, Nevada

RESULTS PER TON OF 2000 POUNDS

R GOLD COPPER Per Cent SILVER LEAD . INSOL. ZINC NUMBER SULPHUR SIRONS LIME Ozs. per Ton Ozs. per Ton Wet on Ore Per Cent 807R 0.107 808R 0.138 809R** 0.088 56.0 810R AF2 5-30 0.069 812R 0.050 0-25 0.025 415 30.50 81LR 0.037 410 50-110 815R 0.018 12 0-25 16R 25-35 0.088 12 817R 0.012 12 35,-50 818R 0.037 A 2 60-95 819R 43 0.012 5-60 820RR A3 0.012 60-75 821R 0.069 43 75-80 822R 0.025 A 3 80-105

Remorke

Charges \$ 31.50

S. C. Elanlan

DISTANCE 0 AF-11 401 0 AF-10 After Thought Drill 501 0 AF-12 501 0 AF-9 501 July - August 0 AF-13 501 5'0 AF-8

601 0 AF44

1001 0 AF-15

87' 1001

198'

2501 0 AF-17

1001

Pattern

901

110'

901

6000 0041 (0540)

SPEED MESSAGE

Tecchemistry performed on CH NF 5 (Afterthought Prospect)	
DATEingust 3, Too: The attached bar diagram shows the distribution of No. 7b. On and In in the rotary portion of drill hole AF 5 between 375 and 920°. This section was selected for analysis because it represents the contact between the volcanic cover and the Memozoic section. Geochemically, this appears to manifest itself at about 875°. Below this, there is a marked increase in the copper content of the samples. The values should all be good as far as reliability is concerned, with the exception of Zinc, which may represent contamination of the samples by the use of zinc-base	
DATEingust 3, Loo: The attached bar diagram shows the distribution of No. 7b. On and In in the rotary portion of drill hole AF 5 between 375 and 920°. This section was selected for analysis because it represents the contact between the volcanic cover and the Memozoic section. Geochemically, this appears to manifest itself at about 875°. Below this, there is a marked increase in the copper content of the samples. The values should all be good as far as reliability is concerned, with the exception of Zinc, which may represent contamination of the samples by the use of zinc-base	3
The attached bar diagram shows the distribution of No. 7b. Cu and In in the rotary portion of drill hole AF 5 between 355 and 920°. This section was selected for analysis because it represents the contact between the volcanic cover and the Megozoic section. Geochemically, this appears to manifest itself at about 875°. Below this, there is a marked increase in the copper content of the samples. The values should all be good as far as reliability is concerned, with the exception of Zinc, which may represent contamination of the samples by the use of zinc-base	,
rotary portion of drill hole AF 5 between 355 and 920°. This section was selected for analysis because it represents the contact between the volcanic cover and the Mesozoic section. Geochemically, this appears to manifest itself at about 875°. Selow this, there is a marked increase in the copper content of the samples. The values should all be good as far as reliability is concerned, with the exception of Zinc, which may represent contamination of the samples by the use of zinc-base	_195
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Memozoic section. Geochemically, this appears to manifest itself at about 875. Below this, there is a marked increase in the copper content of the samples. The values should all be good as far as reliability is concerned, with the exception of Zinc, which may represent contamination of the samples by the use of zinc-base	
Selow this, there is a marked increase in the copper content of the samples. The values should all be good as far as reliability is concerned, with the exception of Zinc, which may represent contamination of the samples by the use of zinc-base	
values should all be good as far as reliability is concerned, with the exception of Zinc, which may represent contamination of the samples by the use of zinc-base	
of Zinc, which may represent contamination of the samples by the use of zinc-base	
	1
	47 48
SIGNED /// Z//llson	

Grayline "SNAP-A-WAY" FORM 44-900 2-PARTS
WILSON JONES COMPANY © 1961 PRINTED IN U.S.A.

AFTERTHOUGHT PROSPECT

Distribution of Mo, Pb, Cu, and Zn in rotary cuttings of Drill Hole AF-5 in parts per million (Total values)

o th	Distribution of Mo, Pb, Cu, and Zn in rotary cuttings of Drill Hole AF-5 in parts per (Total values)	TITION
Se	О <u>рем</u> 100 ppm 200 ppm 300 ppm 400 ppm 500 ppm 600 ppm 700 ppm	800 ppm ' 900 p
35-8451	The state of the s	
15-8551	All control of the co	
5-8651		
65-875!		
75-8801		
0-3901	The state of the s	
00-900' 00-910'	No state of	
70-350, 30-310,	(bottom of rotary drilling as of 6/28/66)	

Ho

Pb

Cu

3n

compiled by W. L. Wilson 8/8/66

Distribution of Mo, Pb, Cu, and Zn in rotary cuttings of Drill Hole AF-5 in parts per million (Total values)

ווטס (100 ppm	200 ppm	300 ppm	400 ppm	500 ppm	600 ppm	700 ppm	800 ppm
	i andre i	Salam (s)	A CONTRACTOR	The state of the s				
	A. S. 41 - 1	1		Pag talana				
	105	1.2.					**	
	* Sugar - Francisco	•	1/4/6/20	AND THE REAL PROPERTY OF	was of the sale of the	an a think of the	Manhat La Committee	
					•			
	C. May 200							
ý 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		- Just - Seattle	The state of the s	and the same of th				
		*1.						
H		51.8		(bottom of ro	tary drilli	no as of 6/2	8/66)	

110

Pb

d Cu

I In

compiled by W. L. Wilson 8/8/66

ASSAY REPORT

Telephone 363-3302

Hand Sample Seriai 40537-40547

UNION ASSAY OFFICE, Inc.

Robert L. Redmond

Mine 1080 Fine Ridge Drive Reno, Nevada 89501

W. C. WANLASS, President L. G. HALL, Vice President G. P. WILLIAMS, Treasurer LILY M. HOTTINGER, Secretary P. O. Box 1528

Salt Lake City Utah 84110

RESULTS PER TON OF 2000 POUNDS August 4, 1966											
NUMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent
23 WM	0.010	None		0.056						Taz Lost.	ωe-/
24 ₩	None	None		0.094	1680	1700			DH	0A-4	
25 WM	Trace	None		0.012	300	3105	DA	AF	/		
26 WM	Trace	None		0.018	363	379	1JF	171 ·	-6		
27 WM	2162	2178 5		0.069				27.1			1
28 WM	2178=	2183		0.037				6.8		100	and a second
29 WM	2183	2190		0.107				48.7		DH	
30 WM	2190	2207		0.056				15.2		CA.	4
31 WM	2207	2224		0.094				45.5			
32 WM	2224	2236	,	0.163			•	47.1			
33 WM	2.236	2243		0.119				52.7			

43.50 Charges \$

ASSAY REPORT

Telephone 363-3302

Hand Sample Serial 40035-40045

UNION ASSAY OFFICE, Inc.

Robert L. Redmond

Mine 1000 Pine Hidge Drive Reno, Nevada 89502

W. C. WANLASS, President L. G. HALL, Vice President G. P. WILLIAMS, Treasurer LILY M. HOTTINGER, Secretary P. O. Box 1528

			ER TON OF	,,		lugust 1				ty, Utah		# Z
N	UMBER	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Wet on Ore	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent			Per Cent
	1				0.088				60.3	1277	1275	
	2				0.075				48.3	1279	1281	
	3	DH			0.088				60.7	1281	1288	ž
	14	(0)4-4			0.056			8	16.0	E 14	1292	
	5	,			0.075		1		62.3	7254	1259	
	6							2 2 3 3 4 3			1319	
	0				0.081		3		55.9	1319		
	7				0.025				12.4	1219	1323	, tadaya
	8	Trace	0.1		0.012	642	654		e e			an Thair Blook
	9 DH	None	None		0.012	454	666					to Audill a tra
	10 AF-G	Trace	None		0.018	666	678					A 444-7()
	11 🌡	0.005	None		0.018	678	670				-2	e in worker to
								•				Ment, at
												Sal u
												Production Property

Charges \$ 43.50

			k i seeded to the all and additional to the seed of the seeder of the se
	AF-1 Mod + strong Mag.	AF-3 slight Mag	
Fe	65.0	65,6	Presults via plane.
Sioz	3.19	2,21	3/18/64
AlzOz	1.22	1,67	Punky 45. Steel - Provo
CaO	. 4	. 7	Film Vy
MgO	.10	.12	
5	.09	.12	HIGH
ρ	. 056	.062	
As	.01	.01	
Cu	02	.01	
ν ₁	.02	.02	
Ti	,20	.25	
£			