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FACULTÉ DES SCIENCES
CITÉ UNIVERSITAIRE
QUÉBEC 10e. CANADA

DÉPARTEMENT DE GÉOLOGIE

Quebec, January 5, 1972.

Dr. Roger Hope,
United States Geological Survey,
Middlefield Road,
Menlo Park, California,
U.S.A.

Dear Roger:

I am writing you on Christmas Day, but this letter will reach you only early in January after the secretary gets back from her holidays to type it.

I have checked the points you raised in your letter concerning my map of the southern HD range.

1).- Circled "1". You are right here. Ov should be under Pbf. I have mapped this spot two or three thimes and each time I arrived at different conclusions. Exposures are low, much too low, to be sure about anything. The position of the tan-weathering Ov chert, shale and other "western facies" has never been easy to figure out here, except for a few spots.

2).- Circled "2". Pbm-cg is under Pbf and right side up. In reality Pbm-cg at this point is more Pbm ss. than Pbm-cg. I will redraw the Pbm-cg-Pbm boundary a bit more to the east. All Pbm beds are badly folded. A fault must pass, however, under the Th cover to explain the occurrance of IPs (Strathearn) at the base of the ridge. You are right about this. I had overlooked this point or interpretation, having been absorbed in the east-west normal faults.

Distinctions between Strathearn, Quilici and IPw (Winecup)

1.- Strathearn. Limestone, fairly thick-bedded, in part conglomeratic, cross-bedded, sandy, with Virgilian fusulinids. Lithology quite similar to type sections (there are several parts to them) to the southeast

...../2

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of Elko. I spent about two weeks in this area running down Dott's sections with a set of instructions and maps directly from him. His paper is not enough to trace all parts of the Strathearn.

2.- Quilici. Limestone with a basal chert pebble conglomerate and minor conglomerate beds in lower half. Limestone forms good ledges, 5-6 feet thick, with sandstone beds again in lower half. Near the top is a coral bioherm of Caninia trojana and Syringopara. It is topped by Pbm. Strathearn is missing, so IPC-Pbm contact is disconformable. Fusulinids are like those of the Tomera or Des Moines. The Quilici is older than Strathearn, not quite like it. It resembles the Tomera of Dott, but it is far less conglomeratic and ledgier. Color is also a darker blue. No Moleen under the Quilici which instead, unconformably lies on Agart Chert. It could well be a continuation of a Tomera overlapping or transgressing on Western Facies, but where that happened it is an unsolvable unknown. Hence the new name.

3.- Winecup (or IPw). Massive limestone with basal conglomerates, on Vinini. Age: Missouri-Virgil, so it could be called Strathearn, but beds are massive: one is 50 feet thick, and not sandy or cross-bedded as in the typical strathearn. In the top part of the Winecup there are two good Caninia bioherms. Colour: a good grey-blue. I believe that both you and E.R. Larson agreed that this unit was unlike the typical Strathearn. Type sections are at IW and IaW.

Looking at the list of fossil identifications I see you wondered in the case of coll. E 12 (Melandco Quad.) from Oversby's area who could have identified his fossils. Well, he did at first and later I helped him out. Fusulinids are, perhaps, the easeast fossils to identify to the generic level. I first started doing research on these things with the Permian stratigraphy of the HD Range (M.S. Thesis, Univ. of Nev., 1957; Larson and Riva, 1963). It is boring work, though, hence my interest in tectonics.

Oversby sent a paper to G.S.A. in July or August, I believe. Do you know what happened to it? I read it first, but have heard nothing about it since. It had to do with his work in the Windermere Hills.

...../3

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Has the U.S.G.S. Topographic branch finalized their topo maps on the area north of Wells? As soon as they come out with clear copies I would like to publish on the geology of the southern HD range.

The best of everything for the New Year.

Sincerely Yours,

John Riva

P.S. I have asked the Board of Stratigraphic names in Washington, D.C., to reserve me the names Wilkins and Winecup ~~to name~~ for two formations in the southern HD range.

Enc.: Map of Southern HD range.

JR/am

John Rioux, 1962 — PhD dissertation

Stratigraphy - general

Paleozoic rx. - 3 subdivisions

① autochthonous, underlying the allochthon.
   ⓐ S.-central part of range — Lower Carb.(?) ← Miss(?) qzts.
   ⓑ S. flank of Blanchard Mt. - P lst., qzt, volc. flows.

② allochthonous sequences of O-S western facies
   mainly argillites, bedded cherts, intercalated volcanics.

③ S. end of area. IP-P lsts. & ss. overlying ②
   and (1a).

— many dikes, probably related to gd intrusives of Contact area —

AUTOCHTHONOUS STRATIGRAPHY

Qzt ~~[illegible]~~ in pass at S. end of map area
brn. [w], tk. bdd., no resistant ledges, no shaly, sty or cg. beds. m. grn., subang. frags of gy-bk. cht & qz. Good (size) sorting, avg. dia. = 1mm.

Underlain by t/b, lt. gy. chty lst., no fossils.

Qzt probably Tonka Fm. = Diamond Peak. No fossils.

S. flank of Blanchard Mt. -
blue, t/b lst., 80-100' tk., sev. 100' tk. To W. (6 mi)
no foss.
about 1,600 ft. of wh. & gy. qzt. conformably overlies lst.
no gdd. bds., beds = few inches ⇒ 1 ft., worm burrows, disk-shaped concretions ⇒ 6 in. dia.
well-sorted, sub-r → rd. qz. grains ~~&~~ authigenic silica cement.
rd-brn [w), Helicopryon (foss. fish) P & E. Tr.

Qzt. appears to be conformably overlain by ~800' of gy.-bk. basaltic flows.

Along E. flowing pt. of Trout Creek 150' of lst. are ~~rib bdd~~ above ~~bsfs~~. basalt and below ~ 1,000 ft. of andesitic flows and rhyolitic tuffs above. Lst. contains fusulinids (altered), by contains Schwagerina (early P).

Allochthonous Stratigraphy

is imbricate high-angle thrust slices & folded low-angle overthrusts, makes up most of Knoll Mt.

O-S units of different slices differ so markedly they are separated into distinct stratigraphic sequences.

Deposition at considerable depth suggested by; absence of shelly fauna, prevalence of graptolites, abundance of radiolaria and phosphatic brachiopods together w/ high carbonaceous content, scarcity of primary sedimentary structures other than bddg. & f. textures.

Silurian rx. in upper pt. of several sequences show gradual n'ward change from calc. sts. & sh. to tuffaceous sts. w/ thin basal cht. Also gentle x-bddg., flowcasts, gdd. bddg., turbidite lenses. Turbidity currents active. Graptolitic faunas become more abund. in no. & species to N.

6 sequences differentiated. Some are obviously intergradational others quite distinct. One sequence consists of lst. w/ shelly fauna (typical of upper Pogonip) underlain by tk. basic lavas and overlain by graptolitic sh. [Coyote Spring sequence].

"more eugeosynclinal" →

Coyote Spring	Knoll Mt.	Corral Cyn.	Schrader Ck.	Burnt Cyn.	Bloody Gulch

Late Paleozoic stratigraphy

Quilici Lst. (Desmoines).

lt. gy., mass. w/ basal cht. cg.
2 - 3' tk. biostromes in upper 70' contain Caninia cf. C. Trojana Easton in assoc. w/ Syringopora.
Known in basal Arcturus (re. Easton, 1960).

basal and lower cgs. composed of angular to well-rdd. cht. pbbles of various hues -- mainly bk. & brn. Calcareous matrix.

Qtz. arenite sandstones - weathr brick-red.
2-10' tk.

Lst = mainly calcarenite intbdd. w/ crinoidal ash(?) & bryozoan and brachiopod coquinites. 2-12 ft. tk., ledges.

Megafossils rare: Dictyoclostus cf. D. hermosanus (Girty), Linoproductis prattenianus, Neospirifer, Chonetes, Derbyia, Fenestrellina & Rhombotrypella (Bryoz.)

In lower pt. fusulinid-lsts
Paramillerella, Fusulinella cf. F. Famula & Fusulina rockymontana.

upper part —
Wedekindellina cf. W. matura, + Paraeofusulina (??)

Fusulinella-Fusulina association = early Desmoinse.
Correlates w/ Tomera Fm.

shows Atoka on Fig. 5!!??

~~Doesn't explain why Desmoines age in lower pt. &~~
Therefore Caninia cf. C. Trojana is Desmoines ?? Caninia zone in upper Tomera too

Eagle Flat Fm. (Missourian)

Quilici lst. grades upward into 400ft. of pink-gy. or brick-rd. calc. sts. topped by sev. hundred ft. of gy., lt.-brn[w], Ss. in indistinct bds. Named Eagle Flat Fm.

Very poorly exposed

Type section – mouth of South Fork (N. side, steepest slope along crest of ridge) just N. of Marlot Spring.

few fossils.

Triticites in thin lst. beds = Missourian age

Correlates w/ Strathearne & prob. w/ middle pt. of Oquirrh fm.

Undiff. Permian

>2000' ash-gy (W) lst. & sts. in SE corner of area.

lower ~~Permian~~ soft, pinkish calcareous siltstones alternating w/ harder lst. bds. which form ridges.

grade upward into increasing thicker lst. bds. w/ bryozoan-crinoid hash & lg. fusulinids. Massive lst. in upper part.

Parafusulina = Leonard for upper half of section

Leonardophyllum (horn coral), Dictyoclostus, in lower part.

Unconf. overlies Quilici and Eagle Flat Fm. No record of Virgil or Wolfcamp strata (But may be there! (RAH)).

CONCLUSIONS

Gold at Trout Creek is present in two mineralized styles: broad areas of detectable, low-grade gold values (10-200 ppb); and discontinuous, narrow zones of high-grade gold (maximum value of 0.70 opt Au). The potential zones of high-grade gold at the South Silicified Zone appear to have been adequately tested by drilling as has the low-grade potential at the Southwest Pediment.

The near surface (<300 ft) area of silicification at Opaline Spring has been tested with broad-spaced drilling (Plate 2). Thick sections of weak Au mineralization were encountered in most of the holes drilled at Opaline Spring. However, the potential for discovering mineralization minable by open pit methods at Opaline Spring appears limited.

The possibility of finding higher grade mineralization within the silicified zone still exists. Gold mineralization in hole TC-91-25 is increasing with depth. A major fault that was mapped using TDEM and hit in the bottom of TC-92-27 may be a feeder conduit for the broad area of low grade gold. The presence of a high-grade mineralized conduit in this area still exists. The depths of such a zone are likely greater than 300 ft.

RECOMMENDATIONS

Based on the exploration results and the current gold price, it is recommended that no further expenditures be made on the property. Despite the presence of ore-grade float, gold mineralization discovered to date in drilling is generally low grade (<200 ppb) or narrow and discontinuous.

The recommended option for continued exploration is to joint venture the property. Untested extensions of mineralized areas are present at Opaline Spring. Gold mineralization in holes TC-91-25 and TC-92-27 is increasing with depth and to the west. Reclamation costs for the project are approximately $1,500.

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APPENDIX A

Geophysical Report by Kenco Minerals, November, 1991

ADDITION
to the
INTERPRETATION
of the
GEOPHYSICAL DATA
from the
TROUT CREEK PROSPECT

ELKO COUNTY, NEVADA

for

CHALLENGER GOLD

DATA COLLECTED

May 1991 & June 1991

based on

ADDITIONAL DATA COLLECTED

October 1991

by

KENCO MINERALS, INC.

REPORT

by

KENCO MINERALS, INC.

November 1991

TABLE OF CONTENTS

INTRODUCTION

During May 1991 and June 1991, KENCO MINERALS, INC. conducted a time domain electromagnetic (TDEM) survey over the Trout Creek Prospect for CHALLENGER GOLD using a 200 foot transmitter loop.

During October 1991, KENCO MINERALS, INC. collected more TDEM data over the Trout Creek prospect. Two lines were surveyed to the north using a 200 foot transmitter loop(lines 11200N and 11600N) to determine the northern extent of the siliceous zone. The strongest response on the earlier survey had been on line 10800N, the furthest north survey line.

In addition a portion of the grid over the silica zone was surveyed with TDEM using a 400 foot transmitter loop if deep structures might occur under the siliceous zone.

This report should be considered an addition to the earlier report. Only the data collected as part of the later survey, and adjacent data collected earlier over the silica zone are include and discussed.

The purpose of the survey was to help map the geology using geophysical methods, particularly to locate structures that may contain gold or that are conduits for mineralizing fluids. Gold bearing rocks in general have no specific geophysical signature. However siliceous zones or jasperoid zones which often contain gold are often much more resistive than the surrounding rock. Alteration which can occur with gold mineralization generally reduces the resistivity of the rock. Of equal or perhaps more important, geophysics is a powerful tool for mapping structures that can serve as conduits for mineralizing fluids.

CONCLUSIONS AND RECOMMENDATIONS

The survey area can be separated into three regions based on the type of interpreted depth sections.

Region I is west of the interpreted fault. The region is interpreted as layered sediments with little potential for gold mineralization.

Region II includes the known silicification and the areas of strongest silicification interpreted from the TDEM data. The interpreted depth sections in the region are hard to correlate because of many resistivity changes. The resistivity changes are likely due to a combination of brecciation, silicification, and alteration. The individual zones are too small to be resolved with TDEM (or any other geophysical method).

The strongest silicification interpreted from the contoured EMF values is centered in the region. The silicification here is at the surface which increase the strength of the response. (lower EMF's, higher resistivity, generally more silicification). One wonders if the area has been uplifted resulting in the near surface exposure and the complex resistivity response which is interpreted as being due to brecciation and faulting.

Region III is in general east of the silicified zone, it also wraps to the north and south. The region is considerably more uniform having a moderate surface resistivity (arkose?), and a middle low resistivity unit interpreted as a tuff. This has not been confirmed by mapping or drilling.

A deeper high resistive layer occurs under the entire area (region III) and continues to the south. See the sections in the earlier report. Unfortunately because of the low resistivity of the tuff unit it is not possible to determine the resistivity of the lower unit. It is certainly greater than 50-100 ohm meters, but it could be considerably higher. It could be as resistive as the silicified zone. From the measured resistivities it is not possible to determine if the deep resistive unit is silicification, granite, or some other rock unit, even a clean sand or conglomerate.

The deep high resistivity unit continues to depth, even the 400 foot loops did not see a deeper layer. It would extend to a depth of at least 600 feet, likely more than 1000 feet. The importance of this unit cannot be determined without more geologic input.

An alteration zone is interpreted based on a decreased resistivity of the near surface rocks. In general the interpreted resistivities of the surface arkose are in the range of 10-15 ohm-meters, in the alteration zone the resistivity is interpreted as being less than 10 ohm meters. The stronger EMF values on the interpretation map are due to the low resistivity.

I interpret the fault as being the conduit for the fluids. The fluids would have migrated up the fault, then to the east of the fault perhaps up dip. They may have silicified only the area mapped as the silicified zone, but more likely the entire area east of the fault. Perhaps the near surface tuff acts as an barrier to prevent silicification to the surface in most areas.

The center silicified zone may have been uplifted or faulted to bring it to the surface. This could have been done before or after the silicification, I expect after the silicification. I am not aware of any geologic evidence of faulting in the silica area.

In general with silicified zones I would expect that the gold mineralization would occur beneath the silicification, within an alteration zone. Here the silicification appears to be too thick to drill through and have an economic deposit. However I find the alteration zone to the west interesting. I would recommend more testing of the silicified zone, but I would be more interested in the western portion nearer the fault than the eastern portion where the silica is exposed.

LOGISTICS

Two lines were surveyed in November 1991 with 200 foot in loop TDEM, and six lines were surveyed with 400 foot in loop TDEM. The survey required 4 1/2 days with a 3 man crew. Portions of several days were lost because of inclement weather, rain and snow.

For the original TDEM survey 200 foot transmitter loops were used for in-loop TDEM soundings. Data was collected at 200 foot intervals on lines spaced 400 feet apart. The earlier magnetic and VLF data was collected on lines spaced 200 feet apart, the TDEM data was collected on every other line.

TDEM equipment manufactured by Geonics, an EM-37, was used for the survey. The motor generator and transmitter were moved along the survey line using a 4 wheel all terrain vehicle and a trailer. The receiver was carried on a backpack. For the survey a 3 man crew was used consisting of Kenneth Sweet, senior geophysicist, Norbert Jerome, senior operator/geologist, and Steve Williams, geophysical technician.

COMMENTS ON TDEM

Time Domain Electromagnetics (TDEM or TEM) has been used extensively for mineral exploration in Australia, Canada, and the Soviet Union for many years (perhaps 20). It has been used some in the United States for perhaps 10 years but is not as common.

It can be used in several survey modes (in-loop, slingram, and large loop profiling to name a few). The choice of method depends primarily on the geologic target and of course terrain and access.

TDEM has primarily been used for locating massive sulfide targets at great depths, some claims for over 1000 feet. In general the targets have been in very resistive rock, the Canadian shield for example, covered by deep glacial cover. Profiling using a large loop is the preferred method. Many case histories of discoveries can be found in the literature.

For mapping structures and the extent of different lithologic units the in-loop method is preferable and most commonly used. The in-loop method (which we used for Trout Creek) is good for mapping the thicknesses and depths to various formations. It is important that the resistivities between the formations be different. The choice of survey parameters, i.e. loop size and choice of equipment depends on the geology.

For the first Trout Creek survey we chose a 200 foot transmitter loop using the Geonics EM-37 TDEM equipment. The second phase include 400 foot transmitter loops to increase the depth of investigation. For each individual reading a square loop 200 feet on a side was laid on the ground using standard 16 gauge insulated wire. The loop was centered over the measurement point. The transmitter was then hooked to the loop. For the 200 foot loops, 23 amps were transmitted through the wire. (The turn off time was 55 microseconds). For the 400 foot loops a current of 24 amps was used with a turnoff time of 95 microseconds. Larger wire was used for the 400 foot loops.

The receiver coil, 100 turns of wire 1 meter in diameter cased in a fiberglass frame, was located at the center of the loop (the measuring point). It is connected to the receiver by a special cable.

The transmitter energizes the loop with current for a short period of time, then turns off. When the current is turned off the earth is energized by the transmitted electromagnetic energy and produces eddy currents. The eddy currents quickly decay. The rate of the decay depends on the resistivity of the earth. The receiver measures the decay rate.

From the rate of decay the resistivity of the earth can be calculated. From the calculated resistivities the depth of various formations and true resistivities can be determined. Each of the data points was interpreted (modeled) to determine the depth to various lithologic units. When geologic control is available (perhaps from drilling or nearby measured sections) depths to the various units can be determined. When little geologic control is available, as on the Trout Creek project, interpretation can only

determine depths and apparent resistivities, not geologic units.

A better interpretation will be possible after more drill hole data is available. The project geologist may also be able to refine the interpretation based on geologic knowledge of the area. To go into the modeling is beyond the scope of this report. For more information refer to the earlier report or a good geophysical text book.

DISCUSSION OF SELECTED LINES

LINE 11600N

The eastern portion of the line is interpreted as being three layers, a surface layer of moderate resistivity (perhaps an arkose), a second layer of low resistivity (perhaps a tuff), and a third deeper layer of high resistivity. The resistivity is high enough that it could be a silicified zone or perhaps granite.

The character of the response is different than the silica zone. It is more pervasive and continuous. There are no breaks or indications of variation within the zone. The high resistivity zone extends more than 300 feet deep, likely more than 600 feet. No indication of the bottom occurs from interpretation of the TDEM data.

South of the silica zone, on line 8800N, a similar response occurs. I don't interpret the high resistivity zone as a siliceous zone. The TDEM data indicates that it could be a broad silicified area or another resistive rock unit, perhaps granite. It is not interpreted as granite because of the lack of magnetic response.

At 2700W a change in geologic section is interpreted as being due to the north south fault. West of the fault very low resistivities are mapped about 500 feet deep. The source is not known. Lateral changes can sometimes cause an "apparent low resistivity", but it is not likely here because it is seen on two stations.

The only other explanation would be salt water or massive sulfides. I interpret the low resistivity as being due to a permeable rock saturated with brackish water. Perhaps fluids are still coming up the fault.

LINE 11200N

The TDEM response on line 11200N is very similar to the response on line 10800N. The siliceous zone appears to be weaker, but the apparent weakening may be due to the zone not being as close to the surface. A low resistivity rock unit covers the siliceous zone, on line 10800N no surface layer was indicated based on the TDEM interpretation.

LINE 10800N

The center portion of the line, station 1700N, is interpreted as being an extension of the siliceous zone on Line A (line 10300N). The resistivity is higher and the extent is larger than on Line A. It is interpreted as being more silicified, more continuous throughout the zone. The interpreted siliceous zone is associated with a soil gold geochemical high.

The resistivity modeling indicates a depth extent of 200 to 300 feet. However in areas with complex structure, or big changes in resistivity due to silicification depth interpretations must be used with caution.

The resistivity modeling indicates that the silicification may continue to the west under the surface rock.

At station 2600W a change in the interpreted lithology at depth occurs. This change occurs along the entire length of the surveyed grid. A magnetic low from a deep source is coincident with the interpreted fault. The surface rocks above the interpreted fault have a lower resistivity than east or west of the fault.

It may be that the interpreted fault at 2500W is a conduit for fluids. Fluids may have come up the fault and altered the arkose above the fault, alteration in general decreases resistivity. The fault could also be the conduit for the fluids which silicified the area to the east.

Further east, east of 1500W, the resistivity models become complex. It is likely that some silicification occurs but is spotty . The interpretation software assumes that the rock units are flat to gently dipping and each rock unit has a reasonably uniform resistivity. When many large changes occur in a short distance, vertically or horizontally, the interpretation models are not very accurate.

West of the interpreted fault, west of 3300W, the lithology is interpreted as being flat and having little change due to either alteration or silicification. The only change noted is that on the west end of the line, station 4500W, a deep high resistivity layer occurs. It is too deep to determine the true resistivity, or even an accurate thickness. I expect that it would be a sedimentary layer, perhaps another arkose and not an exploration target. It is first indicated at station 3700W and not shown at station 3500W. I expect that the unit occurs though the entire western portion of the line, but is thinner and cannot be detected from the surface.

Based on the geophysical interpretation line 10800N shows the greatest potential for gold mineralization. The silicified zone and the interpreted alteration zone should be checked out. Both are related to the deep fault.

LINE A (equivalent to grid line 10300N)

Line A was surveyed with ground magnetics, VLF, and IP in the fall of 1989 before the main grid was put in. It covers the strongest area of surface silicification and was used as an orientation line. The location would be approximately where line 10300N would have been on the new grid, and is plotted in that position on the interpretation map. Both sets of station numbers are shown on the TDEM interpretation cross section.

The response along the entire line is similar to line 10800N. The high resistivity zone at station 500E (grid 1700W) is not as extensive as on line 10800N. It is interpreted as being several hundred feet thick, but may have more zones within that are not silicified.

The deep fault would be interpreted as occurring at 300W (grid 2500W). The surface rock unit at 300W has a lower resistivity interpreted as being due to alteration (feature B on the interpretation map). The high resistivity zone, silicification, is interpreted as dipping to the west under the surface arkose.

The surface outcrop of the siliceous zone was tested by drilling at 550E. Based on the geophysical interpretation more extensive silicification occurs to the west.

An interesting structural depression occurs on the east end of the line, station 1500E (grid 700W). The structure should be considered, but would not be expected to a target for gold mineralization.

The earlier IP survey on line A also had some interesting features. The high resistivity zone mapped with the IP survey matched well with the interpreted silicified zone. The TDEM response had better resolution. Interpretation of both the IP and TDEM data over the silicified zone were the same, i.e. the strongest silicification was west of the drill hole and the silicification was dipping to the west.

A resistivity low, mapped as part of the IP survey, occurs at depth at 900W (grid 3100W). It is interpreted as being due to alteration at depth. The TDEM data also indicates a resistivity low at depth. Based on the better resolution of the TDEM data, the cause of the resistivity low is interpreted as a structure, perhaps a fault. The resistivity low is caused by a low resistivity rock unit (tuff?) being closer to the surface.

An increased IP response occurred at depth at station 1500W. The TDEM interpretation shows a structural break below the source of the IP response. The IP response may be due to sulfides at the structural break.

LINE 10000N

The silicified zone continues south to line 10000N but does not appear to be as extensive. Based on the TDEM interpretation the silicification is not as extensive as on line A and line 10800N.

At 1200W a strong magnetic response occurs indicating a west dipping magnetic source. The source of the response is not known.

Line 8800N

Line 8800N has the three layer response similar to the northernmost line, L11600N. The deep high resistivity rock unit extents to depth. With the 400 foot loops we would be able to see deeper than 600 feet, likely greater than 1000 feet.

Kenneth Sweet

Ken Sweet

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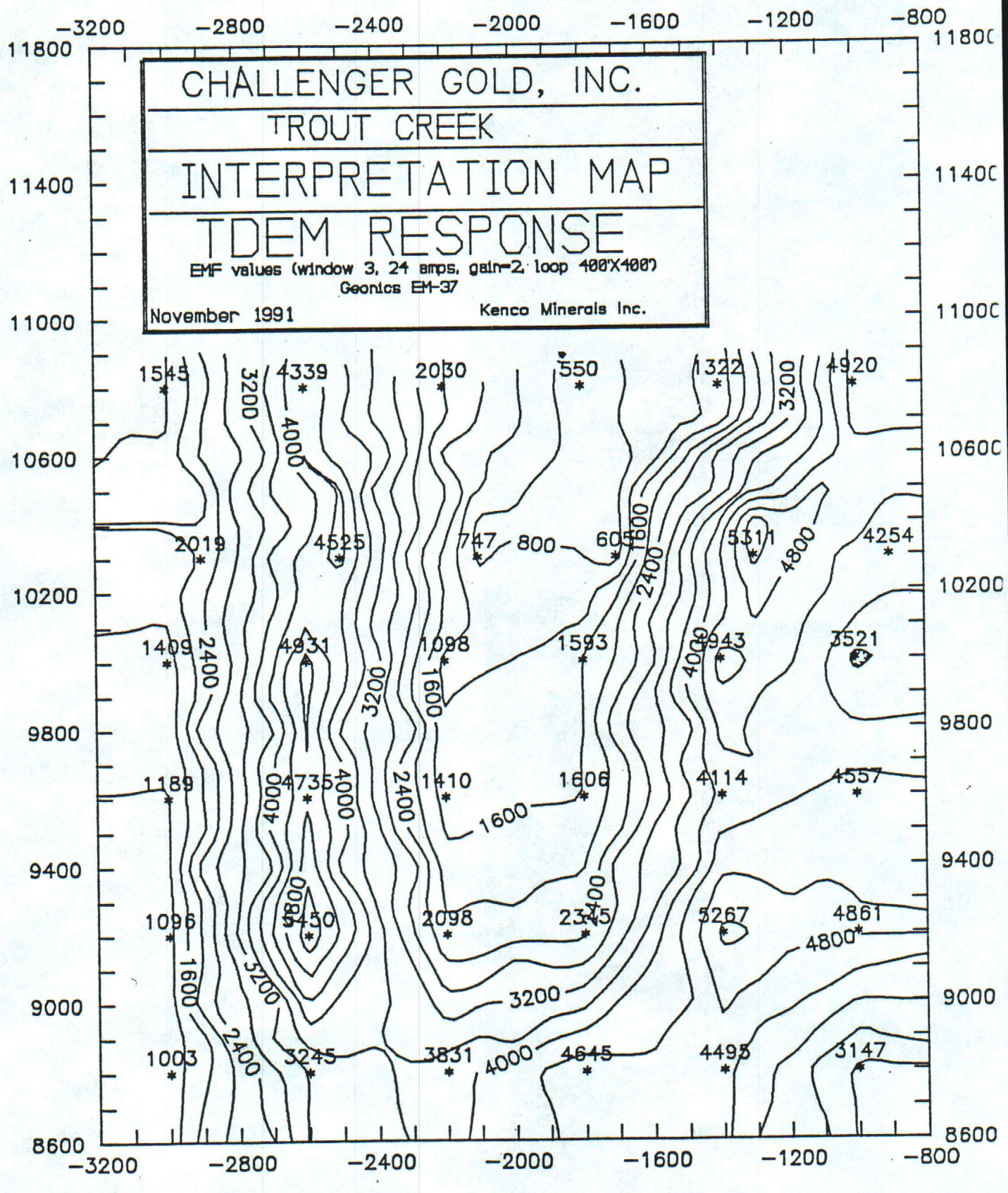
Littleton, Co. 80123
(303) 973 8253


CHALLENGER GOLD, INC.
TROUT CREEK
INTERPRETATION MAP
TDEM RESPONSE
EMF values (window 3, 24 amps, gain=2, loop 400'X400')
Geonics EM-37
November 1991
Kenco Minerals Inc.
-3200
-2800
-2400
-2000
-1600
-1200
-800
11800
11400
11000
10600
10200
9800
9400
9000
8600
1545
4339
2030
550
1322
4920
2019
4525
747
800
605
5311
4254
1409
4931
1098
1593
3943
3521
1189
4735
1410
1606
4114
4557
1096
4450
2098
2345
5267
4861
1003
3245
3831
4645
4495
3147
1600
2400
3200
4000
4800
5200

APPENDIX B

1992 Drill Sample Assays

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-26

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-26- 5	5	<5	0.000																															
TC-92-26- 10	10	<5	0.000																															
TC-92-26- 15	10	<5	0.000																															
TC-92-26- 20	10	<5	0.000																															
TC-92-26- 25	10	<5	0.000																															
TC-92-26- 30	5	<5	0.000																															
TC-92-26- 35	5	<5	0.000																															
TC-92-26- 40	10	<5	0.000																															
TC-92-26- 45	5	<5	0.000																															
TC-92-26- 50	10	<5	0.000																															
TC-92-26- 55	10	<5	0.000																															
TC-92-26- 60	10	<5	0.000																															
TC-92-26- 65	10	<5	0.000																															
TC-92-26- 70	20	<5	0.000																															
TC-92-26- 75	15	<5	0.000																															
TC-92-26- 80	11	<5	0.000																															
TC-92-26- 85	11	<5	0.000																															
TC-92-26- 90	10	<5	0.000																															
TC-92-26- 95	10	<5	0.000																															
TC-92-26-100	15	<5	0.000																															
TC-92-26-105	5	<5	0.000																															
TC-92-26-110	1	<5	0.000																															
TC-92-26-115	10	<5	0.000																															
TC-92-26-120	5	<5	0.000																															
TC-92-26-125	10	<5	0.000																															
TC-92-26-130	20	<5	0.000																															
TC-92-26-135	10	<5	0.000																															
TC-92-26-140	30	<5	0.000																															
TC-92-26-145	10	<5	0.000																															
TC-92-26-150	20	<5	0.000																															
TC-92-26-155	20	<5	0.000																															
TC-92-26-160	15	<5	0.000																															
TC-92-26-165	20	<5	0.000																															
TC-92-26-170	20	<5	0.000																															
TC-92-26-175	30	<5	0.000																															
TC-92-26-180	30	<5	0.000																															
TC-92-26-185	25	<5	0.000																															
TC-92-26-190	30	<5	0.000																															
TC-92-26-195	20	<5	0.000																															
TC-92-26-200	25	<5	0.000																															
TC-92-26-205	20	<5	0.000																															
TC-92-26-210	30	<5	0.000																															
TC-92-26-215	30	<5	0.000																															
TC-92-26-220	30	<5	0.000																															
TC-92-26-225	25	<5	0.000																															
TC-92-26-230	30	<5	0.000																															
TC-92-26-235	25	<5	0.000																															
TC-92-26-240	30	<5	0.000																															
TC-92-26-245	10	<5	0.000																															

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-26

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	[redacted] ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-26-250	20	<5	0.000																															
TC-92-26-255	20	<5	0.000																															
TC-92-26-260	20	<5	0.000																															
TC-92-26-265	10	<5	0.000																															
TC-92-26-270	15	<5	0.000																															
TC-92-26-275	5	<5	0.000																															
TC-92-26-280	5	<5	0.000																															
TC-92-26-285	10	<5	0.000																															
TC-92-26-290	10	<5	0.000																															
TC-92-26-295	10	<5	0.000																															
TC-92-26-300	10	<5	0.000																															
# Samples		60																																
Maximum	30	<5	0.000																															
Minimum	1	<5	0.000																															
Average	15	<5	0.000																															
Std Dev	8	<5	0.000																															

CHALLENGER GOLD - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-27

Sample Number	lbs	Au ppb	Au ost	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-27- 5	1	0	0.000	0.2	2	2	0	0	15	24	52	0	0	4	0.0	5	28	9	0	23	460	4.0	10	20	410	450	4	235	0.07	2.92	2.95	1.64	0.30	0.77	0.10
TC-92-27- 10	15	0	0.000	0.2	0	4	0	0	21	20	40	0	0	2	0.0	3	22	5	0	16	250	4.5	10	20	370	240	3	310	0.06	2.47	2.33	1.18	0.21	0.52	0.28
TC-92-27- 15	5	0	0.000	0.4	0	2	0	10	6	18	38	0	0	4	0.0	3	18	6	0	10	260	6.5	10	40	515	170	3	180	0.06	2.34	0.72	1.29	0.24	0.43	0.41
TC-92-27- 20	7	0	0.000	0.2	0	0	0	10	7	16	40	1	0	4	0.0	3	17	6	0	11	570	6.5	10	40	1415	230	3	184	0.06	2.44	0.69	1.32	0.26	0.42	0.41
TC-92-27- 25	10	0	0.000	0.2	0	4	0	20	9	18	50	1	0	2	0.0	5	49	8	0	26	530	7.0	20	60	1205	490	5	253	0.02	2.92	0.65	1.73	0.24	0.38	0.24
TC-92-27- 30	12	0	0.000	0.0	0	0	0	10	6	6	20	0	0	2	0.0	2	101	7	0	23	180	2.0	10	40	130	480	2	171	0.01	1.14	0.34	0.89	0.18	0.17	0.12
TC-92-27- 35	5	0	0.000	0.0	0	0	0	10	6	4	22	0	0	2	0.0	2	97	7	0	22	160	2.0	10	40	140	440	2	179	0.01	1.23	0.41	1.06	0.18	0.21	0.12
TC-92-27- 40	1	0	0.000	0.0	0	2	0	0	15	30	70	2	40	2	0.0	4	137	13	0	29	260	4.0	10	50	375	500	4	434	0.03	2.31	0.70	1.98	0.19	0.38	0.10
TC-92-27- 45	10	0	0.000	0.0	0	2	0	0	8	14	40	0	40	2	0.0	4	110	11	0	19	350	3.0	10	50	430	610	4	431	0.03	2.24	0.66	1.60	0.23	0.44	0.12
TC-92-27- 50	15	0	0.000	0.0	0	0	0	10	8	12	40	0	110	4	0.0	5	93	13	0	18	1200	3.0	10	50	1235	640	4	430	0.03	2.24	0.62	1.60	0.21	0.47	0.11
TC-92-27- 55	15	0	0.000	0.0	0	0	0	0	11	10	42	0	90	2	0.0	5	118	14	0	21	2600	2.5	20	40	540	480	5	454	0.05	2.69	1.31	1.59	0.24	0.51	0.09
TC-92-27- 60	10	0	0.000	0.0	0	2	0	0	7	8	38	0	70	2	0.0	4	107	13	0	18	880	2.5	20	40	390	610	5	578	0.04	2.73	1.12	1.42	0.24	0.51	0.10
TC-92-27- 65	10	0	0.000	0.0	0	2	0	0	10	10	42	0	40	2	0.0	4	94	15	0	14	400	3.0	20	50	250	1260	5	802	0.02	2.42	0.79	1.46	0.19	0.53	0.09
TC-92-27- 70	11	0	0.000	0.0	2	2	0	0	10	8	42	0	30	2	0.0	5	104	15	0	13	270	1.5	10	40	115	1340	4	358	0.02	1.93	0.78	1.44	0.21	0.43	0.09
TC-92-27- 75	10	0	0.000	0.0	12	2	0	0	9	6	22	0	30	0	0.0	3	71	9	0	9	390	1.0	10	40	85	430	3	246	0.01	1.33	0.51	1.12	0.17	0.30	0.08
TC-92-27- 80	5	0	0.000	0.0	12	2	0	0	6	6	18	2	20	2	0.0	2	81	7	0	10	650	1.0	10	40	75	360	2	284	0.00	1.35	0.47	0.95	0.19	0.29	0.08
TC-92-27- 85	5	0	0.000	0.0	10	2	0	0	7	6	22	1	20	2	0.0	2	89	8	0	12	460	1.0	10	30	85	450	2	236	0.00	1.23	0.48	0.89	0.16	0.27	0.07
TC-92-27- 90	12	0	0.000	0.0	8	2	0	0	6	8	14	1	20	0	0.0	2	88	6	0	14	610	1.0	10	40	60	350	2	219	0.00	1.33	0.46	0.69	0.20	0.28	0.09
TC-92-27- 95	15	0	0.000	0.0	10	2	0	0	9	6	12	0	10	2	0.0	1	107	6	0	12	180	1.0	10	40	80	520	2	208	0.00	1.44	0.51	0.64	0.20	0.31	0.08
TC-92-27-100	15	0	0.000	0.0	12	2	0	0	6	4	12	0	10	0	0.0	2	97	7	0	10	140	1.0	0	40	65	450	2	223	0.00	1.30	0.51	0.66	0.18	0.29	0.07
TC-92-27-105	15	0	0.000	0.0	14	2	0	0	15	16	28	0	30	2	0.0	3	73	8	0	16	150	2.5	10	40	95	420	2	266	0.00	1.44	0.61	1.14	0.20	0.33	0.07
TC-92-27-110	22	0	0.000	0.0	18	2	0	0	14	12	28	0	30	2	0.0	3	68	8	0	13	80	2.0	10	50	90	590	2	225	0.00	1.28	0.57	1.20	0.21	0.30	0.06
TC-92-27-115	20	0	0.000	0.0	34	8	0	0	26	12	40	11	20	2	0.0	6	54	11	0	24	140	2.5	10	60	100	560	3	269	0.01	1.80	0.64	1.47	0.23	0.38	0.06
TC-92-27-120	20	0	0.000	0.0	120	16	0	10	22	14	52	42	30	2	0.0	7	70	16	0	27	80	2.0	10	50	95	660	4	248	0.01	2.33	0.61	2.23	0.23	0.40	0.06
TC-92-27-125	20	0	0.000	0.0	100	10	0	0	28	14	48	17	30	2	0.0	7	83	16	0	24	90	2.0	10	50	110	740	3	248	0.01	2.32	0.62	2.22	0.25	0.41	0.07
TC-92-27-130	15	0	0.000	0.2	108	8	0	0	28	26	82	7	30	4	0.0	9	52	22	0	36	50	4.5	20	80	200	930	6	436	0.02	4.35	1.19	2.60	0.31	0.79	0.07
TC-92-27-135	10	0	0.000	0.2	72	18	3	0	36	24	80	3	30	4	0.0	10	34	21	0	37	90	5.0	20	70	245	840	7	505	0.03	4.52	1.14	2.39	0.38	0.99	0.09
TC-92-27-140	20	0	0.000	0.0	104	20	0	0	19	12	44	6	20	4	0.0	7	48	16	0	31	100	3.0	20	40	155	760	4	305	0.01	2.09	0.72	1.86	0.24	0.56	0.06
TC-92-27-145	25	0	0.000	0.0	86	20	0	0	87	24	60	7	20	4	0.0	7	34	15	0	23	120	3.0	20	50	180	910	4	625	0.01	2.39	0.92	1.86	0.31	0.57	0.10
TC-92-27-150	15	0	0.000	0.0	58	14	0	0	12	8	36	3	20	2	0.0	5	67	14	0	32	140	2.0	20	30	125	690	3	444	0.01	1.86	0.77	1.65	0.26	0.38	0.08
TC-92-27-155	25	0	0.000	0.0	66	14	0	10	23	12	42	2	10	4	0.0	5	42	12	0	18	130	2.5	30	40	100	720	3	1198	0.01	1.98	0.70	1.59	0.50	0.33	0.16
TC-92-27-160	15	0	0.000	0.0	48	10	0	0	13	16	34	1	10	6	0.0	5	50	9	0	26	130	2.5	20	40	180	1080	4	469	0.03	2.94	0.96	1.83	0.24	0.75	0.08
TC-92-27-165	25	0	0.000	0.0	62	12	0	0	17	18	56	3	10	4	0.0	9	55	19	0	32	150	3.5	20	40	215	3050	5	537	0.03	3.20	1.78	1.96	0.23	0.93	0.09
TC-92-27-170	30	0	0.000	0.0	66	14	0	0	25	14	34	5	10	4	0.0	6	88	14	0	28	130	1.5	10	40	100	830	2	306	0.01	1.89	0.68	1.54	0.18	0.41	0.07
TC-92-27-175	20	0	0.000	0.0	50	16	1	0	24	14	28	3	0	6	0.0	4	69	9	0	25	90	2.5	20	40	105	400	3	389	0.01	2.55	0.70	1.71	0.23	0.55	0.07
TC-92-27-180	20	0	0.000	0.0	54	18	0	10	15	14	40	5	10	4	0.0	6	68	15	0	23	70	2.0	20	50	110	800	3	378	0.00	2.60	0.79	1.91	0.20	0.48	0.07
TC-92-27-185	10	0	0.000	0.0	62	20	0	10	23	16	46	4	10	4	0.0	7	63	12	0	21	110	3.0	30	50	180	640	4	394	0.01	2.71	0.79	1.87	0.23	0.52	0.07
TC-92-27-190	15	0	0.000	0.0	80	12	0	10	24	16	32	2	0	6	0.0	5	93	11	0	17	70	2.0	30	40	90	780	2	351	0.00	2.57	0.83	1.47	0.18	0.42	0.06
TC-92-27-195	25	10	0.000	0.0	180	24	1	10	18	20	42	7	10	6	0.0	7	51	13	0	22	60	3.0	50	60	115	890	3	490	0.00	2.72	0.98	1.91	0.17	0.49	0.07
TC-92-27-200	30	40	0.001	0.0	172	24	0	10	9	12	28	5	10	4	0.0	4	60	7	0	12	60	2.5	50	40	95	250	2	329	0.00	2.04	0.61	1.47	0.20	0.37	0.05
TC-92-27-205	25	190	0.006	0.0	272	16	0	10	8	12	36	2	0	2	0.0	4	80	9	0	15	60	1.5	20	30	105	240	1	117	0.00	0.94	0.22	1.44	0.20	0.14	0.04
TC-92-27-210	20	270	0.008	0.0	232	16	0	10	6	10	22	3	0	2	0.0	4	98	8	0	20	120	1.5	10	30	80	260	1	81	0.00	0.70	0.16	1.29	0.21	0.09	0.04
TC-92-27-215	25	140	0.004	0.0	238	12	0	10	7	10	34	3	10	2	0.0	4	78	10	0	22	40	1.5	20	30	75	370	2	126	0.00	1.01	0.27	1.63	0.19	0.18	0.04
TC-92-27-220	25	120	0.003	0.0	158	10	0	0	9	8	26	2	10	4	0.0	3	73	7	0	11	80	1.0	10	30	55	190	1	117	0.00	0.71	0.21	1.28	0.15	0.11	0.04
TC-92-27-225	15	145	0.004	0.0	166	8	0	0	8	8	24	4	10	2	0.0	3	89	6	0	18	60	1.0	10	30	90	300	1	124	0.00	0.65	0.22	1.39	0.15	0.08	0.05
TC-92-27-230	20	105	0.003	0.0	176	8	0	0	9	8	26	5	10	2	0.0	3	57	7	0	12	60	0.5	0	20	65	310	1	76	0.00	0.42	0.17	1.40	0.11	0.06	0.03
TC-92-27-235	20	110	0.003	0.0	142	10	0	10	12	8	28	4	0	2	0.0	3	124	8	0	14	80	0.5	0	30	45	390	1	56	0.00	0.46	0.16	1.41	0.15	0.04	0.04
TC-92-27-240	20	60	0.002	0.0	76	8	0	10	5	2	10	10	0	2	0.0	2	151	4	0	6	40	0.5	0	10	45	160	0	35	0.00	0.29	0.09	1.54	0.05	0.03	0.02

CHALLENGER GOLD, [redacted] TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-27

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
# Samples	48																																	
Maximum	30	270	0.008	0.4	272	24	3	20	87	30	82	42	110	6	0.0	10	151	22	0	37	2600	7.0	50	80	1415	3050	7	1198	0.07	4.52	2.95	2.60	0.50	0.99	0.41
Minimum	1	0	0.000	0.0	0	0	0	0	5	2	10	0	0	0	0.0	1	17	4	0	6	40	0.5	0	10	45	160	0	35	0.00	0.29	0.09	0.64	0.05	0.03	0.02
Average	16	25	0.001	0.0	64	8	0	4	15	13	37	4	19	3	0.0	4	75	11	0	19	279	2.5	15	41	234	610	3	324	0.02	1.97	0.73	1.51	0.22	0.40	0.10
Std Dev	7	58	0.002	0.1	73	7	0	5	13	6	16	7	22	1	0.0	2	30	4	0	7	412	1.5	10	13	299	447	1	203	0.02	0.92	0.52	0.42	0.07	0.21	0.08

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-28

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-28- 5	10	0	0.000	0.2	6	0	1	0	14	20	36	0	20	2	0.0	4	50	5	0	15	240	3.0	0	30	90	470	4	480	0.01	2.66	1.27	1.35	0.33	0.56	0.13
TC-92-28- 10	10	0	0.000	0.2	4	0	1	0	14	12	40	1	10	2	0.0	4	43	5	0	12	50	3.5	0	40	90	490	5	280	0.01	3.36	1.19	1.43	0.31	0.74	0.13
TC-92-28- 15	8	0	0.000	0.4	0	0	0	0	15	12	46	0	0	0	0.0	4	30	4	0	10	90	3.5	0	40	105	560	5	276	0.01	3.83	1.55	1.36	0.22	0.91	0.12
TC-92-28- 20	5	0	0.000	0.0	0	0	0	0	15	22	46	1	10	0	0.0	5	28	5	0	13	260	4.0	0	40	120	640	5	412	0.01	3.48	1.76	1.68	0.38	0.79	0.09
TC-92-28- 25	4	0	0.000	0.0	6	0	1	0	14	20	44	1	10	2	0.0	4	44	5	0	11	340	3.0	0	40	100	490	4	608	0.00	2.55	0.92	1.58	0.30	0.56	0.05
TC-92-28- 30	9	0	0.000	0.0	4	0	0	0	11	24	34	1	0	0	0.0	4	36	4	0	10	180	3.0	0	40	160	440	4	392	0.00	2.60	0.62	1.50	0.26	0.53	0.05
TC-92-28- 35	9	0	0.000	0.2	4	0	0	0	19	20	46	1	10	2	0.0	5	32	5	0	9	110	4.0	0	40	150	400	4	577	0.01	2.69	0.76	1.39	0.28	0.61	0.05
TC-92-28- 40	3	0	0.000	0.2	10	0	0	0	16	24	54	0	10	2	0.0	6	38	7	0	8	90	4.5	0	40	140	370	4	462	0.01	2.86	0.82	1.49	0.32	0.70	0.06
TC-92-28- 45	5	0	0.000	0.0	12	0	1	0	13	18	38	0	10	2	0.0	5	41	6	0	8	130	3.0	0	50	100	390	3	371	0.00	2.30	0.80	1.29	0.22	0.50	0.05
TC-92-28- 50	5	0	0.000	0.0	42	6	4	0	14	32	34	1	10	2	0.0	7	35	5	0	9	60	3.5	0	60	90	370	3	292	0.00	2.29	0.60	1.36	0.19	0.38	0.04
TC-92-28- 55	2	0	0.000	0.2	42	6	2	0	7	14	28	1	10	2	0.0	4	56	4	0	7	300	2.5	0	30	90	150	2	187	0.00	1.63	0.38	1.45	0.19	0.29	0.03
TC-92-28- 60	3	0	0.000	0.2	0	0	1	0	15	18	54	0	10	2	0.0	5	41	7	0	14	450	4.5	0	40	170	180	5	445	0.01	3.48	0.69	1.61	0.36	0.58	0.06
TC-92-28- 65	5	0	0.000	0.0	12	2	2	0	12	20	46	0	10	0	0.0	5	45	6	0	10	320	4.0	0	30	130	150	3	372	0.00	2.89	0.59	1.36	0.29	0.48	0.05
TC-92-28- 70	5	0	0.000	0.2	12	2	2	0	13	16	68	1	10	2	0.0	6	40	7	0	13	280	5.5	0	40	165	240	5	422	0.01	3.44	0.78	1.92	0.43	0.64	0.06
TC-92-28- 75	5	10	0.000	0.0	6	2	0	0	13	20	40	0	10	2	0.0	5	43	7	0	10	300	5.0	0	40	130	330	4	341	0.00	2.58	0.74	1.40	0.36	0.51	0.05
TC-92-28- 80	10	5	0.000	0.0	2	0	0	0	15	14	34	0	0	0	0.0	5	56	7	0	12	150	5.0	0	40	140	390	4	324	0.00	2.67	0.76	1.31	0.34	0.53	0.05
TC-92-28- 85	5	10	0.000	0.0	12	2	1	0	16	18	34	0	10	0	0.0	5	57	7	0	13	150	4.0	0	40	125	330	3	326	0.00	2.39	0.72	1.21	0.31	0.46	0.05
TC-92-28- 90	5	0	0.000	0.2	26	4	0	0	21	18	46	0	10	2	0.0	5	54	7	0	11	110	4.5	0	40	130	430	4	419	0.00	3.04	0.98	1.37	0.34	0.50	0.06
TC-92-28- 95	10	10	0.000	0.0	44	6	1	0	19	22	52	2	10	2	0.0	6	51	8	0	12	70	4.0	0	50	125	470	4	389	0.00	2.86	0.98	1.77	0.23	0.42	0.05
TC-92-28-100	10	15	0.000	0.0	36	4	0	0	19	20	52	1	10	2	0.0	6	44	7	0	12	40	3.5	0	50	135	450	3	395	0.00	2.95	1.02	1.75	0.18	0.39	0.05
TC-92-28-105	8	0	0.000	0.0	60	10	0	0	16	18	40	4	10	0	0.0	4	74	5	0	12	60	2.5	0	30	85	480	3	217	0.00	2.23	0.57	1.70	0.19	0.27	0.03
TC-92-28-110	12	0	0.000	0.0	74	8	0	0	16	16	42	3	10	0	0.5	5	55	6	0	14	40	3.5	0	30	120	430	3	256	0.00	2.64	0.58	1.96	0.18	0.31	0.04
TC-92-28-115	5	0	0.000	0.0	60	8	1	0	19	22	60	3	10	0	0.5	7	29	8	0	11	60	5.5	0	50	185	350	4	484	0.00	3.10	0.99	1.88	0.24	0.45	0.07
TC-92-28-120	10	5	0.000	0.0	50	2	0	0	18	22	58	2	10	0	0.0	6	56	8	0	14	80	5.0	0	50	185	480	4	443	0.00	3.40	0.93	1.92	0.27	0.51	0.04
TC-92-28-125	11	0	0.000	0.0	46	4	1	0	17	16	54	2	10	2	0.0	6	45	8	0	15	100	5.5	0	40	215	890	5	398	0.00	3.71	0.95	1.90	0.32	0.57	0.04
TC-92-28-130	15	0	0.000	0.0	14	2	0	0	16	14	38	1	10	0	0.0	5	49	6	0	18	110	5.0	0	30	145	1170	4	336	0.00	3.04	0.86	1.40	0.31	0.48	0.03
TC-92-28-135	15	0	0.000	0.0	24	6	1	0	17	14	36	2	0	2	0.0	4	84	6	0	17	90	3.5	0	30	115	560	3	284	0.00	2.72	0.63	1.53	0.22	0.39	0.03
TC-92-28-140	9	0	0.000	0.0	46	4	1	0	16	16	42	3	0	2	0.0	5	85	6	0	18	90	3.5	0	30	95	760	4	263	0.00	2.78	0.64	1.63	0.22	0.39	0.02
TC-92-28-145	11	0	0.000	0.0	40	6	0	0	17	16	40	3	0	2	0.0	4	79	6	0	14	80	3.0	0	30	95	840	3	242	0.00	2.35	0.62	1.85	0.20	0.33	0.02
TC-92-28-150	15	0	0.000	0.2	96	10	2	0	20	22	56	4	10	2	0.5	6	42	7	0	15	60	5.5	0	40	130	340	5	348	0.00	3.06	0.62	2.58	0.25	0.39	0.03
TC-92-28-155	15	25	0.001	0.2	48	18	3	0	7	8	26	8	0	0	0.0	2	56	3	0	10	210	3.0	0	20	85	80	2	199	0.00	1.62	0.34	1.03	0.16	0.22	0.03
TC-92-28-160	18	15	0.000	0.2	44	10	3	0	5	6	92	9	0	0	0.0	2	54	4	0	5	190	2.0	0	0	30	130	1	153	0.00	2.45	0.19	0.86	0.10	0.09	0.03
TC-92-28-165	18	10	0.000	0.0	40	10	1	0	3	2	30	20	0	0	0.0	1	61	2	0	3	250	0.5	0	0	25	40	0	58	0.00	0.59	0.11	0.73	0.07	0.06	0.02
TC-92-28-170	20	20	0.001	0.0	32	10	1	0	5	6	20	6	0	0	0.0	2	72	2	0	5	110	1.5	0	10	40	70	1	80	0.00	0.94	0.18	1.32	0.13	0.11	0.03
TC-92-28-175	15	0	0.000	0.2	34	8	1	0	7	6	32	3	0	2	0.0	2	96	4	0	5	110	1.5	10	10	45	150	1	89	0.00	1.09	0.22	1.33	0.15	0.13	0.02
TC-92-28-180	15	0	0.000	0.0	30	8	1	0	9	12	144	3	0	0	0.0	3	119	7	0	5	80	1.5	10	20	35	110	1	80	0.00	0.97	0.18	1.62	0.12	0.09	0.02
TC-92-28-185	8	0	0.000	0.0	36	6	1	0	12	18	30	2	0	2	0.0	4	135	5	0	8	90	1.5	10	30	20	330	1	29	0.00	1.09	0.14	1.57	0.13	0.03	0.01
TC-92-28-190	10	0	0.000	0.0	28	6	1	0	13	12	12	1	0	2	0.0	3	169	5	0	12	100	3.5	10	10	20	380	4	61	0.00	2.84	1.49	1.52	0.16	0.04	0.01
TC-92-28-195	10	0	0.000	0.2	14	2	0	0	13	14	10	2	0	2	0.0	3	209	4	0	7	50	1.5	10	20	20	440	1	24	0.00	1.25	0.19	1.88	0.15	0.02	0.00
TC-92-28-200	12	0	0.000	0.2	12	4	2	0	21	18	10	2	0	2	0.5	3	194	5	0	16	130	2.0	10	30	30	970	2	33	0.00	2.67	0.85	1.32	0.16	0.03	0.01
TC-92-28-205	12	0	0.000	0.0	56	6	2	0	16	16	12	3	10	4	0.0	4	153	5	0	18	20	2.0	0	10	35	590	3	58	0.00	3.06	1.02	3.88	0.21	0.05	0.01
TC-92-28-210	10	0	0.000	0.0	44	8	0	0	12	16	30	5	0	2	0.0	4	172	5	0	12	50	0.5	0	20	25	530	2	42	0.00	1.63	0.32	2.22	0.18	0.04	0.00
TC-92-28-215	10	0	0.000	0.0	36	6	1	0	12	14	36	2	0	2	0.0	3	164	5	0	9	80	0.5	0	20	20	340	1	25	0.00	1.00	0.16	1.50	0.16	0.02	0.01
TC-92-28-220	10	0	0.000	0.0	86	12	4	0	16	20	110	3	20	2	0.5	4	105	8	0	17	60	2.5	0	20	40	190	4	73	0.00	2.23	0.43	2.32	0.28	0.09	0.01
TC-92-28-225	15	35	0.001	0.0	82	14	5	0	12	16	94	10	10	2	0.5	6	76	7	0	10	50	2.0	0	0	25	360	4	73	0.00	1.90	0.82	2.45	0.18	0.05	0.01
TC-92-28-230	10	95	0.003	0.0	94	22	3	0	5	14	40	31	0	2	0.5	3	76	3	0	5	50	1.0	0	20	35	680	1	75	0.00	1.17	0.43	1.95	0.12	0.07	0.01
TC-92-28-235	18	35	0.001	0.0	38	8	1	0	4	4	16	11	0	2	0.0	2	181	4	0	9	100	0.5	0	10	20	230	0	31	0.00	0.56	0.23	1.07	0.06	0.03	0.01
TC-92-28-240	15	30	0.001	0.0	22	4	0	0	4	2	8	12	0	0	0.0	1	257	4	0	10	140	0.5	0	0	20	120	0	23	0.00	0.45	0.27	0.80	0.06	0.01	0.01
TC-92-28-245	7	20	0.001	0.0	46	6	0	0	5	6	14	10	0	2	0.0	2	197	4	0	5	120	0.5	0	0	20	90	0	24	0.00	0.53	0.22	1.16	0.08	0.02	0.01

CHALLE[illegible]OLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-28

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-28-250	21	110	0.003	0.2	68	36	3	0	5	2	28	215	0	2	0.0	1	191	4	0	8	30	1.0	0	0	20	40	2	100	0.00	0.84	1.28	1.21	0.08	0.05	0.01
TC-92-28-255	15	15	0.000	0.0	30	4	1	0	6	8	16	9	0	2	0.0	4	191	4	0	5	120	0.5	0	10	15	200	1	32	0.00	0.74	0.45	1.18	0.17	0.03	0.01
TC-92-28-260	10	5	0.000	0.0	26	6	0	0	6	10	16	11	0	2	0.0	3	257	5	0	4	120	1.0	0	0	20	240	1	45	0.00	0.77	0.84	1.31	0.45	0.02	0.02
TC-92-28-265	25	10	0.000	0.0	30	4	0	0	7	8	14	5	0	2	0.0	2	244	4	0	4	110	0.5	0	10	15	250	1	31	0.00	0.82	0.58	1.43	0.18	0.02	0.01
TC-92-28-270	9	10	0.000	0.0	32	8	1	0	8	12	14	5	0	4	0.0	3	232	4	0	5	60	0.5	0	10	20	330	1	25	0.00	0.63	0.31	2.25	0.20	0.04	0.01
TC-92-28-275	9	20	0.001	0.0	70	6	0	0	6	10	24	4	0	2	0.0	4	197	5	0	9	90	1.0	0	20	20	170	1	36	0.00	0.81	0.69	1.63	0.23	0.05	0.01
TC-92-28-280	5	65	0.002	0.0	154	22	0	0	4	16	74	14	0	2	0.5	8	132	7	0	12	40	1.0	0	30	30	110	1	59	0.00	1.35	0.32	2.63	0.27	0.11	0.01
TC-92-28-285	9	50	0.001	0.2	52	12	0	0	5	10	22	18	0	2	0.0	3	191	5	0	6	90	0.5	0	20	20	170	0	45	0.00	0.64	0.19	1.37	0.11	0.04	0.01
TC-92-28-290	9	125	0.004	0.8	36	6	0	0	5	6	12	8	0	2	0.0	7	286	13	0	3	130	3.5	0	10	20	60	0	15	0.00	0.30	0.13	0.87	0.14	0.01	0.00
TC-92-28-295	10	175	0.005	0.8	14	2	0	0	5	2	6	3	0	0	0.0	3	263	8	0	2	20	7.0	0	0	20	40	0	13	0.00	0.23	0.21	0.54	0.11	0.01	0.00
TC-92-28-300	11	100	0.003	1.0	6	2	0	0	6	2	4	6	40	0	0.0	10	281	23	0	2	20	4.0	0	0	25	20	0	30	0.00	0.23	0.22	0.61	0.19	0.01	0.00
TC-92-28-305	10	185	0.005	1.2	26	4	0	0	4	2	4	4	0	0	0.0	4	266	10	0	1	10	2.5	0	0	20	20	0	29	0.00	0.17	0.03	0.69	0.08	0.01	0.00
TC-92-28-310	15	115	0.003	0.6	40	10	0	0	4	2	4	6	10	0	0.0	6	253	9	0	2	20	0.5	0	0	15	10	0	12	0.00	0.23	0.15	0.88	0.10	0.00	0.00
TC-92-28-315	10	135	0.004	0.4	58	8	1	0	3	6	2	8	20	0	0.0	7	294	7	0	2	40	0.0	0	0	15	10	0	14	0.00	0.25	0.17	1.39	0.18	0.01	0.00
TC-92-28-320	10	135	0.004	0.4	28	2	0	0	2	6	2	3	0	0	0.0	1	195	6	0	6	430	4.0	10	0	20	30	0	163	0.01	1.31	1.91	0.62	1.56	0.05	0.01
TC-92-28-325	11	155	0.005	0.6	64	6	0	0	5	4	6	9	0	0	0.0	2	252	8	0	5	20	0.5	10	0	20	10	0	29	0.00	0.43	0.10	0.99	0.10	0.02	0.01
TC-92-28-330	10	40	0.001	0.2	8	0	0	0	2	2	0	5	0	0	0.0	1	408	9	10	2	10	0.0	0	0	20	0	0	10	0.00	0.09	0.04	0.47	0.00	0.00	0.00
TC-92-28-335	12	40	0.001	0.2	2	0	0	0	5	2	0	5	0	0	0.0	2	427	19	10	2	10	0.0	0	0	25	0	0	8	0.00	0.06	0.10	0.54	0.00	0.00	0.00
TC-92-28-340	12	85	0.002	0.4	4	0	0	0	4	2	2	11	0	0	0.0	1	346	11	0	5	10	1.5	0	0	25	10	0	22	0.00	0.35	0.15	0.48	0.11	0.04	0.00
TC-92-28-345	15	30	0.001	0.2	8	2	0	0	6	2	0	8	0	2	0.0	1	255	4	0	8	20	0.5	0	0	20	10	0	41	0.00	0.64	0.11	0.34	0.16	0.05	0.01
TC-92-28-350	10	120	0.003	1.0	38	4	0	0	10	8	44	9	0	0	0.5	8	230	14	0	6	10	0.5	0	0	25	10	0	34	0.00	0.43	0.07	0.86	0.13	0.03	0.01
TC-92-28-355	12	55	0.002	0.4	62	6	0	0	9	8	10	4	0	0	0.0	2	144	13	0	5	20	1.0	0	10	20	40	0	29	0.00	0.40	0.05	0.94	0.18	0.03	0.01
TC-92-28-360	10	30	0.001	0.2	44	4	0	0	5	6	8	4	10	0	0.0	6	118	8	0	4	20	1.0	0	10	15	30	0	31	0.00	0.45	0.05	0.82	0.20	0.03	0.01
TC-92-28-365	10	30	0.001	0.2	40	6	0	0	7	8	32	5	0	0	0.0	4	113	12	0	5	10	1.5	0	10	20	20	0	33	0.00	0.60	0.08	0.89	0.25	0.04	0.01
TC-92-28-370	10	40	0.001	0.2	62	6	0	0	7	8	30	5	230	0	0.5	32	115	11	0	6	20	1.0	10	10	25	80	1	33	0.00	0.61	0.10	1.17	0.26	0.06	0.01
TC-92-28-375	10	35	0.001	0.4	88	6	0	0	7	8	24	10	10	0	0.0	5	132	14	0	7	20	1.0	10	10	25	170	1	34	0.00	0.60	0.12	1.32	0.24	0.06	0.01
TC-92-28-380	2	30	0.001	0.4	70	4	0	0	6	8	26	9	0	0	0.0	2	62	5	0	6	10	1.0	0	10	25	130	0	55	0.00	0.73	0.11	0.96	0.25	0.06	0.01
TC-92-28-385	5	25	0.001	0.2	24	2	0	0	13	16	48	2	0	0	0.0	3	82	6	0	8	60	2.0	10	20	40	320	1	108	0.00	1.21	0.20	0.77	0.54	0.12	0.01
TC-92-28-390	10	30	0.001	0.2	22	2	0	0	10	8	26	8	0	0	0.0	2	159	4	0	8	30	1.5	10	10	35	250	1	90	0.00	1.07	0.19	0.85	0.46	0.11	0.01
TC-92-28-395	5	40	0.001	0.4	74	8	0	0	12	16	62	10	0	0	0.5	6	153	10	0	7	30	1.0	10	10	40	160	1	108	0.00	1.23	0.16	1.70	0.38	0.09	0.01
TC-92-28-400	10	25	0.001	0.2	46	4	0	0	12	24	34	3	0	0	0.0	4	81	5	0	9	80	2.0	10	10	45	220	1	179	0.00	1.52	0.24	1.48	0.61	0.13	0.02
TC-92-28-405	20	20	0.001	0.2	18	0	0	0	10	14	30	1	0	0	0.0	2	115	4	0	9	40	3.0	10	20	50	230	1	147	0.00	1.65	0.21	0.96	0.72	0.18	0.03
TC-92-28-410	9	55	0.002	0.6	86	4	0	0	8	12	34	7	40	0	0.5	10	140	8	0	10	40	1.5	10	20	35	140	1	66	0.00	1.12	0.15	2.00	0.45	0.12	0.01
TC-92-28-415	15	105	0.003	1.2	94	0	0	0	9	8	24	15	280	0	0.0	51	147	12	0	7	40	1.0	0	10	25	110	1	23	0.00	0.41	0.10	0.98	0.24	0.04	0.00
TC-92-28-420	13	95	0.003	0.8	92	0	0	0	7	8	22	6	420	0	0.0	74	136	17	0	6	60	1.0	0	10	25	110	0	22	0.00	0.35	0.06	0.99	0.22	0.03	0.00
TC-92-28-425	15	130	0.004	1.0	76	0	0	0	7	8	22	11	290	0	0.0	44	171	18	0	9	30	1.0	0	10	25	110	1	23	0.00	0.49	0.24	1.10	0.24	0.04	0.00
TC-92-28-430	11	75	0.002	0.8	66	0	0	0	9	12	24	16	260	0	0.0	136	144	29	0	9	30	0.5	0	10	30	120	1	23	0.00	0.44	0.21	1.08	0.24	0.03	0.00
TC-92-28-435	14	70	0.002	0.8	84	2	0	0	9	6	30	6	380	0	0.0	60	118	19	0	8	50	1.0	0	10	25	140	1	16	0.00	0.35	0.14	1.14	0.20	0.03	0.00
TC-92-28-440	14	65	0.002	0.6	90	6	0	0	4	4	18	3	30	0	0.0	6	145	4	0	3	70	0.5	0	10	20	95	0	14	0.00	0.25	0.08	0.86	0.13	0.01	0.00
TC-92-28-445	18	75	0.002	0.8	68	4	0	0	6	4	16	3	0	0	0.0	3	130	6	0	4	50	0.5	0	10	25	257	0	18	0.00	0.29	0.14	0.83	0.17	0.03	0.00
TC-92-28-450	14	50	0.001	1.0	120	6	0	0	9	8	32	6	20	0	0.0	7	132	12	0	7	70	0.5	0	20	25	434	1	19	0.00	0.33	0.13	1.29	0.23	0.02	0.00
TC-92-28-455	14	75	0.002	1.0	112	4	0	0	6	2	24	6	0	0	0.0	4	130	11	0	8	50	2.0	0	20	25	323	1	22	0.00	0.36	0.11	1.15	0.25	0.02	0.00
TC-92-28-460	12	160	0.005	0.8	50	2	0	0	6	6	22	8	10	0	0.0	6	122	10	0	15	30	1.5	0	20	30	223	1	24	0.00	0.66	0.44	1.14	0.31	0.08	0.00
TC-92-28-465	12	90	0.003	1.6	54	2	0	0	6	2	18	3	10	0	0.0	5	197	8	0	11	30	1.0	0	20	25	170	1	20	0.00	0.39	0.11	0.84	0.21	0.04	0.00
TC-92-28-470	14	45	0.001	1.4	54	2	0	0	8	4	22	3	200	0	0.0	35	164	6	0	10	20	1.0	0	10	25	88	0	17	0.00	0.29	0.05	0.76	0.13	0.03	0.00
TC-92-28-475	15	25	0.001	1.6	46	4	0	0	6	2	14	1	0	0	0.0	4	222	7	0	3	20	1.0	0	0	20	79	0	12	0.00	0.16	0.05	0.72	0.08	0.01	0.00

CHALLENGE GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-28

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
# Samples	95																																	
Maximum	25	185	0.005	1.6	154	36	5	0	21	32	144	215	420	4	0.5	136	427	29	10	18	450	7.0	10	60	215	1170	5	608	0.01	3.83	1.91	3.88	1.56	0.91	0.13
Minimum	2	0	0.000	0.0	0	0	0	0	2	2	0	0	0	0	0.0	1	28	2	0	1	10	0.0	0	0	15	0	0	8	0.00	0.06	0.03	0.34	0.00	0.00	0.00
Average	11	37	0.001	0.3	43	5	1	0	10	12	32	7	27	1	0.1	8	134	7	0	9	93	2.2	2	19	59	270	2	150	0.00	1.48	0.47	1.34	0.24	0.19	0.02
Std Dev	4	47	0.001	0.4	31	5	1	0	5	7	24	22	78	1	0.2	18	88	4	1	4	91	1.6	4	16	52	233	2	162	0.00	1.12	0.42	0.55	0.18	0.23	0.03

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-29

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-29- 5	14	10	0.000	0.0	16	4	0	0	5	8	18	0	10	0	0.0	2	109	6	0	14	420	1.0	10	0	70	120	1	92	0.01	1.12	1.70	0.69	0.13	0.33	0.10
TC-92-29- 10	6	0	0.000	0.0	6	2	0	0	1	0	10	0	20	0	0.0	1	84	2	0	8	50	1.0	10	0	50	40	0	41	0.00	0.61	0.28	0.50	0.07	0.13	0.10
TC-92-29- 15	14	10	0.000	0.0	30	10	0	0	6	8	24	1	20	0	0.0	3	40	2	0	12	2510	0.5	30	10	80	70	2	78	0.00	1.37	0.38	1.23	0.09	0.28	0.12
TC-92-29- 20	20	10	0.000	0.0	6	6	0	0	2	2	6	2	0	0	0.0	0	108	3	0	4	1080	0.5	10	0	15	20	0	38	0.00	0.28	0.17	0.35	0.03	0.05	0.03
TC-92-29- 25	6	15	0.000	0.0	8	2	0	0	8	0	10	1	0	0	0.0	0	189	3	0	3	130	0.5	0	0	15	10	0	21	0.00	0.10	0.11	0.35	0.00	0.01	0.01
TC-92-29- 30	10	15	0.000	0.0	12	4	0	0	8	2	12	1	0	0	0.0	0	53	2	0	4	660	0.0	10	0	15	10	0	31	0.00	0.24	0.12	0.29	0.04	0.04	0.02
TC-92-29- 35	8	25	0.001	0.0	10	2	0	0	14	0	12	0	0	0	0.0	0	91	3	0	3	290	1.0	0	0	15	20	0	46	0.00	0.18	0.09	0.27	0.02	0.02	0.02
TC-92-29- 40	11	30	0.001	0.0	8	4	0	0	9	4	12	0	0	0	0.0	0	61	1	0	7	200	1.0	10	0	115	20	0	65	0.00	0.34	0.12	0.28	0.04	0.05	0.03
TC-92-29- 45	12	40	0.001	0.0	120	38	0	0	11	16	42	5	20	0	0.0	4	47	6	0	11	170	2.5	10	30	80	310	2	201	0.00	1.98	0.48	1.38	0.15	0.24	0.03
TC-92-29- 50	12	65	0.002	0.0	172	42	0	0	16	14	52	10	20	0	0.0	10	43	6	0	15	70	3.0	10	40	70	350	3	240	0.00	2.33	0.55	2.26	0.17	0.30	0.03
TC-92-29- 55	13	45	0.001	0.0	110	32	0	0	26	26	62	14	30	0	0.0	7	38	7	0	12	100	4.0	10	40	115	270	3	421	0.00	2.55	0.80	2.06	0.23	0.41	0.06
TC-92-29- 60	16	25	0.001	0.0	80	20	0	0	13	12	40	16	20	0	0.0	5	49	5	0	10	130	3.0	10	30	85	250	2	320	0.00	2.10	0.61	1.46	0.20	0.32	0.05
TC-92-29- 65	6	20	0.001	0.0	98	22	0	0	12	16	44	11	20	0	0.0	6	56	6	0	13	110	2.5	10	40	85	330	3	273	0.00	2.41	0.56	1.80	0.19	0.27	0.05
TC-92-29- 70	10	20	0.001	0.0	102	26	1	0	13	16	46	12	10	0	0.0	5	43	5	0	13	90	3.0	20	40	100	280	3	333	0.00	2.71	0.61	1.86	0.20	0.32	0.07
TC-92-29- 75	7	20	0.001	0.0	32	10	0	0	4	2	12	3	0	0	0.0	1	112	3	0	4	40	0.5	0	0	25	40	0	66	0.00	0.53	0.14	0.52	0.06	0.06	0.03
TC-92-29- 80	6	55	0.002	0.0	80	14	0	0	4	6	20	4	0	0	0.0	2	78	2	0	6	140	1.0	10	10	25	40	1	88	0.00	0.73	0.14	0.70	0.09	0.08	0.04
TC-92-29- 85	8	60	0.002	0.0	60	12	0	0	3	2	12	3	0	0	0.0	1	51	2	0	4	40	0.5	0	0	15	20	0	61	0.00	0.41	0.09	0.43	0.06	0.04	0.04
TC-92-29- 90	9	120	0.003	0.2	134	14	0	0	5	8	24	2	0	0	0.0	2	49	3	0	4	200	1.0	0	10	20	50	1	86	0.00	0.70	0.13	1.00	0.11	0.07	0.05
TC-92-29- 95	12	40	0.001	0.0	80	8	0	0	8	16	28	0	10	0	0.0	3	78	4	0	9	150	1.5	10	30	60	200	2	249	0.00	1.78	0.42	1.44	0.23	0.21	0.04
TC-92-29-100	12	15	0.000	0.0	62	8	0	0	9	18	46	0	10	0	0.0	4	56	4	0	11	50	2.5	10	30	75	260	3	283	0.00	2.09	0.47	1.95	0.24	0.24	0.04
TC-92-29-105	6	30	0.001	0.0	44	6	0	0	10	10	26	0	10	0	0.0	3	100	5	0	7	80	1.0	0	20	40	160	1	137	0.00	0.99	0.22	1.18	0.17	0.11	0.03
TC-92-29-110	10	40	0.001	0.0	68	14	0	0	6	8	40	4	10	0	0.0	3	63	4	0	8	50	1.5	10	20	45	160	1	137	0.00	0.93	0.23	1.36	0.14	0.12	0.03
TC-92-29-115	6	50	0.001	0.0	60	16	0	0	3	4	18	16	0	0	0.0	1	78	2	0	6	20	0.5	10	0	25	20	0	73	0.00	0.43	0.11	0.69	0.05	0.06	0.03
TC-92-29-120	10	30	0.001	0.2	38	12	0	0	2	2	18	9	0	0	0.0	0	125	3	0	4	20	0.5	10	0	20	10	0	56	0.00	0.29	0.08	0.47	0.04	0.04	0.03
TC-92-29-125	8	30	0.001	0.0	32	10	0	0	2	2	14	8	0	0	0.0	0	140	3	0	3	10	0.0	10	0	15	10	0	36	0.00	0.19	0.05	0.44	0.03	0.02	0.02
TC-92-29-130	20	45	0.001	0.0	40	14	1	0	3	0	14	7	0	0	0.0	0	78	3	0	4	10	0.5	10	0	10	0	0	46	0.00	0.21	0.06	0.44	0.03	0.03	0.03
TC-92-29-135	20	30	0.001	0.0	48	12	0	0	3	0	12	5	0	0	0.0	0	47	1	0	3	10	0.5	10	0	10	0	0	57	0.00	0.25	0.08	0.49	0.04	0.03	0.03
TC-92-29-140	16	40	0.001	0.0	52	10	0	0	3	2	40	3	0	0	0.0	1	52	2	0	6	10	0.5	10	0	10	10	0	63	0.00	0.53	0.09	0.71	0.06	0.05	0.03
TC-92-29-145	14	35	0.001	0.0	88	14	0	0	7	8	26	8	0	0	0.0	3	117	4	0	7	10	0.5	10	10	10	30	0	24	0.00	0.68	0.09	1.49	0.04	0.02	0.01
TC-92-29-150	20	25	0.001	0.0	52	14	1	0	6	6	72	7	0	0	0.0	2	158	6	0	8	20	0.5	10	10	15	100	1	25	0.00	0.98	0.25	1.55	0.05	0.02	0.00
TC-92-29-155	4	15	0.000	0.0	92	20	1	0	11	22	348	4	20	0	0.0	5	141	8	0	12	90	3.0	0	10	20	530	12	120	0.00	2.22	2.90	3.32	1.12	0.03	0.04
TC-92-29-160	4	15	0.000	0.0	74	10	1	0	12	18	44	3	10	0	0.0	6	196	8	0	11	20	0.0	0	30	20	670	1	18	0.00	0.65	0.24	3.45	0.16	0.02	0.00
TC-92-29-165	10	50	0.001	0.0	160	26	2	0	8	18	64	84	10	0	0.0	4	111	7	0	11	10	1.0	20	20	25	200	2	26	0.00	0.76	0.08	2.02	0.15	0.04	0.01
TC-92-29-170	9	65	0.002	0.0	172	22	2	0	6	12	60	33	10	0	0.0	4	81	3	0	11	10	0.5	10	0	15	80	1	35	0.00	1.02	0.10	2.74	0.10	0.03	0.00
TC-92-29-175	4	40	0.001	0.0	100	22	2	0	7	14	22	13	10	0	0.0	3	48	3	0	5	10	1.0	10	0	15	20	0	31	0.00	0.70	0.09	1.11	0.10	0.03	0.00
TC-92-29-180	11	85	0.002	0.0	96	28	2	0	8	12	46	38	10	0	0.0	3	61	4	0	7	20	1.5	20	20	25	90	1	58	0.00	0.92	0.09	1.68	0.18	0.06	0.01
TC-92-29-185	15	90	0.003	0.0	92	20	1	0	9	12	32	24	10	0	0.0	3	65	14	0	10	20	1.5	20	20	30	90	2	74	0.00	1.25	0.33	1.62	0.21	0.11	0.01
TC-92-29-190	9	45	0.001	0.2	44	8	0	0	5	4	8	8	0	0	0.0	1	168	6	0	5	10	0.0	0	0	15	20	0	22	0.00	0.30	0.08	0.64	0.04	0.02	0.00
TC-92-29-195	16	25	0.001	0.0	2	0	0	0	0	2	0	0	0	0	0.0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TC-92-29-200	16	35	0.001	0.0	16	4	0	0	2	2	4	7	0	0	0.0	0	201	5	0	2	10	0.0	0	0	15	20	0	11	0.00	0.12	0.03	0.37	0.01	0.00	0.00
TC-92-29-205	15	15	0.000	0.0	6	2	0	0	4	2	4	5	0	0	0.0	0	225	4	0	3	10	0.0	0	0	15	10	0	20	0.00	0.18	0.16	0.35	0.01	0.00	0.00
TC-92-29-210	15	15	0.000	0.0	4	2	0	0	2	4	0	21	0	0	0.0	0	217	4	0	5	10	1.0	10	0	20	30	0	55	0.00	0.74	0.35	0.34	0.08	0.02	0.00
TC-92-29-215	14	45	0.001	0.2	56	14	0	0	4	8	2	75	0	0	0.0	2	77	2	0	7	50	0.5	10	0	15	10	0	50	0.00	0.80	0.28	0.77	0.12	0.03	0.01
TC-92-29-220	13	35	0.001	0.2	72	16	0	0	2	12	6	55	0	0	0.0	2	76	3	0	7	10	0.5	10	0	15	20	0	72	0.00	0.67	0.16	1.12	0.09	0.04	0.01
TC-92-29-225	8	45	0.001	0.4	82	20	0	10	2	12	60	74	0	0	0.0	5	72	5	0	12	10	0.5	20	30	20	60	1	108	0.00	1.08	0.22	1.97	0.10	0.09	0.01
TC-92-29-230	9	30	0.001	0.4	24	8	0	0	2	0	44	57	0	0	0.0	1	244	7	0	4	0	0.0	10	10	20	0	0	35	0.00	0.34	0.08	0.79	0.02	0.03	0.00
TC-92-29-235	10	60	0.002	0.4	42	8	0	0	3	4	12	36	0	0	0.0	1	231	4	0	6	10	0.5	10	0	15	40	0	34	0.00	0.42	0.14	0.68	0.05	0.03	0.01
TC-92-29-240	16	40	0.001	0.2	38	16	1	0	3	8	10	16	0	0	0.0	2	133	5	0	12	10	1.0	20	0	10	60	0	59	0.00	1.39	0.45	0.80	0.09	0.04	0.01
TC-92-29-245	14	30	0.001	0.4	44	12	0	0	4	6	6	29	0	0	0.0	1	114	3	0	7	10	0.5	10	0	15	50	0	55	0.00	0.96	0.22	0.69	0.09	0.04	0.01

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-29

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	[illegible] ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-29-250	15	25	0.001	0.2	16	4	0	0	2	2	2	14	0	0	0.0	0	174	2	0	4	10	0.5	0	0	15	50	0	31	0.00	0.46	0.21	0.37	0.07	0.03	0.00
TC-92-29-255	16	80	0.002	0.4	26	2	0	0	3	0	2	8	0	0	0.0	0	181	4	0	3	20	1.0	0	0	15	20	0	22	0.00	0.23	0.08	0.41	0.11	0.02	0.00
TC-92-29-260	15	50	0.001	0.2	22	2	0	0	2	2	2	7	0	0	0.0	0	120	3	0	8	10	0.5	0	0	10	10	0	41	0.00	0.44	0.07	0.38	0.10	0.02	0.00
TC-92-29-265	13	70	0.002	0.4	16	2	0	0	6	2	2	2	0	0	0.0	0	136	4	0	4	20	0.5	0	0	10	0	0	26	0.00	0.26	0.06	0.36	0.10	0.01	0.00
TC-92-29-270	12	50	0.001	0.2	34	4	1	0	4	6	2	3	0	0	0.0	0	130	3	0	5	20	0.5	0	0	10	0	0	29	0.00	0.34	0.05	0.56	0.11	0.02	0.00
TC-92-29-275	12	65	0.002	0.6	24	4	0	0	5	12	4	2	0	0	0.0	0	172	6	0	8	20	0.5	0	10	15	40	0	39	0.00	0.46	0.16	0.59	0.19	0.05	0.00
TC-92-29-280	12	85	0.002	0.4	52	6	0	0	11	4	12	2	0	0	0.0	2	175	6	0	8	30	0.5	0	0	15	20	0	33	0.00	0.38	0.07	1.04	0.16	0.03	0.00
TC-92-29-285	12	80	0.002	0.4	92	8	0	0	7	10	32	3	0	0	0.0	3	169	8	0	7	40	0.5	0	10	20	60	0	21	0.00	0.33	0.07	1.44	0.21	0.02	0.00
TC-92-29-290	12	40	0.001	0.2	72	10	0	0	4	10	38	3	0	0	0.0	3	134	7	0	9	40	1.0	0	20	65	100	0	17	0.00	0.27	0.05	1.36	0.20	0.04	0.00
TC-92-29-295	10	60	0.002	0.2	116	14	0	0	3	8	48	4	0	0	0.0	4	111	9	0	6	40	2.0	0	20	130	140	0	23	0.00	0.35	0.07	1.62	0.20	0.11	0.00
TC-92-29-300	7	195	0.006	2.8	76	8	0	0	219	190	236	5	0	4	0.5	19	91	76	30	70	240	0.5	0	20	800	1050	5	79	0.10	2.03	1.01	3.33	0.22	0.61	0.04
TC-92-29-305	12	135	0.004	0.2	152	14	0	0	3	8	36	7	0	0	0.0	3	193	7	0	4	20	0.5	0	10	15	40	0	14	0.00	0.28	0.09	1.18	0.13	0.01	0.00
TC-92-29-310	10	85	0.002	0.2	124	14	0	0	4	6	16	6	0	0	0.0	2	229	7	0	4	30	0.5	0	10	15	50	0	13	0.00	0.21	0.06	1.11	0.11	0.01	0.00
TC-92-29-315	22	65	0.002	0.2	66	6	0	0	3	10	10	8	0	0	0.0	2	260	7	0	4	20	0.5	0	0	15	20	0	13	0.00	0.17	0.06	0.88	0.07	0.00	0.00
TC-92-29-320	16	65	0.002	0.4	74	6	0	0	33	10	20	7	0	0	0.0	4	214	9	10	8	40	2.0	0	10	15	70	0	25	0.00	0.31	0.26	1.05	0.19	0.01	0.00
TC-92-29-325	14	75	0.002	0.4	46	4	0	0	12	8	18	4	0	0	0.0	5	114	13	60	12	40	0.5	0	10	10	120	0	24	0.00	0.27	0.08	0.61	0.23	0.01	0.00
TC-92-29-330	14	140	0.004	0.6	84	8	0	0	4	6	8	6	10	0	0.0	4	160	9	140	16	70	1.0	0	10	15	190	0	47	0.00	0.48	0.41	0.76	0.41	0.02	0.00
TC-92-29-335	12	85	0.002	0.4	100	12	0	0	5	6	14	4	0	0	0.0	4	151	9	90	19	40	1.0	0	0	15	90	0	32	0.00	0.54	0.25	1.18	0.21	0.04	0.00
TC-92-29-340	16	145	0.004	1.0	146	16	0	0	5	6	8	9	0	0	0.0	4	141	12	80	13	30	1.0	0	0	15	50	0	32	0.00	0.53	0.18	1.55	0.15	0.03	0.00
TC-92-29-345	18	80	0.002	0.4	52	8	0	0	4	4	4	4	20	0	0.0	2	137	5	50	26	50	3.0	0	0	25	60	1	49	0.00	1.27	0.85	0.78	0.63	0.14	0.00
TC-92-29-350	20	80	0.002	0.8	64	4	0	0	6	10	8	3	0	0	0.0	4	175	11	0	10	40	2.0	0	10	15	80	0	25	0.00	0.51	0.29	0.90	0.26	0.04	0.00
TC-92-29-355	20	30	0.001	0.4	32	4	0	0	8	10	8	3	0	0	0.0	3	178	10	0	7	60	0.5	0	10	10	80	0	26	0.00	0.43	0.34	0.82	0.42	0.01	0.00
TC-92-29-360	18	55	0.002	0.4	32	4	0	0	5	10	4	9	0	0	0.0	3	201	12	0	7	140	1.5	0	10	15	60	0	50	0.00	0.65	0.56	0.77	0.63	0.02	0.00
TC-92-29-365	20	50	0.001	0.6	46	4	0	0	5	4	10	4	0	0	0.0	2	153	5	0	10	80	1.0	0	10	15	60	0	39	0.00	0.64	0.58	0.72	0.39	0.04	0.00
TC-92-29-370	18	60	0.002	1.0	78	4	0	0	8	8	24	4	10	0	0.0	4	209	13	0	6	40	0.5	0	10	20	90	0	20	0.00	0.36	0.06	1.34	0.21	0.02	0.00
TC-92-29-375	24	70	0.002	1.0	108	6	0	0	6	10	26	3	0	0	0.0	3	156	7	0	7	30	0.5	0	10	15	140	0	23	0.00	0.42	0.10	1.67	0.23	0.03	0.00
TC-92-29-380	14	60	0.002	0.6	116	4	0	0	6	12	50	3	0	0	0.0	4	130	6	0	10	30	1.0	0	20	10	150	1	18	0.00	0.40	0.14	1.27	0.29	0.03	0.00
TC-92-29-385	12	150	0.004	1.0	156	4	0	0	7	6	44	3	390	0	0.0	33	164	9	0	6	30	1.5	0	20	15	220	1	17	0.00	0.31	0.15	1.35	0.24	0.02	0.00
TC-92-29-390	12	100	0.003	0.8	70	2	0	0	6	10	28	2	50	0	0.0	7	150	7	0	4	60	1.0	0	20	15	210	0	26	0.00	0.26	0.09	1.08	0.23	0.01	0.00
TC-92-29-395	8	100	0.003	1.0	48	2	0	0	10	6	22	5	0	0	0.0	3	165	7	0	3	50	1.0	0	10	15	130	0	24	0.00	0.32	0.29	0.92	0.30	0.01	0.00
TC-92-29-400	8	95	0.003	2.8	100	2	0	0	6	6	22	5	10	0	0.0	3	156	6	0	2	20	2.5	0	10	15	190	0	29	0.00	0.19	0.12	1.08	0.17	0.01	0.00
TC-92-29-405	8	140	0.004	2.4	90	2	0	0	13	8	24	3	20	0	0.0	5	196	7	0	3	30	4.5	0	10	20	140	0	24	0.00	0.24	0.14	1.06	0.22	0.01	0.00
TC-92-29-410	8	100	0.003	1.2	92	2	0	0	13	10	28	6	0	0	0.0	3	165	6	0	3	60	4.0	0	10	15	160	0	34	0.00	0.42	0.37	1.00	0.48	0.01	0.00
TC-92-29-415	6	70	0.002	1.2	36	0	0	0	4	2	14	4	10	0	0.0	3	163	5	0	4	40	3.0	0	10	30	60	0	29	0.00	0.25	0.15	0.78	0.28	0.02	0.00
TC-92-29-420	5	235	0.007	2.4	104	4	0	0	6	8	18	8	10	0	0.0	3	176	10	0	4	150	4.0	0	10	20	120	0	50	0.00	0.84	0.90	0.97	0.91	0.03	0.01
TC-92-29-425	6	65	0.002	0.6	76	4	0	0	7	4	20	11	120	0	0.0	13	156	6	0	5	220	1.5	0	10	15	100	0	65	0.00	1.25	1.56	0.89	1.46	0.03	0.01
TC-92-29-430	8	55	0.002	0.8	72	2	0	0	11	8	30	4	10	0	0.0	4	148	6	0	7	60	1.5	0	20	15	170	0	32	0.00	0.36	0.29	1.02	0.31	0.02	0.00
TC-92-29-435	7	60	0.002	1.4	68	2	0	0	6	8	28	3	10	0	0.0	3	193	5	0	7	90	2.0	0	20	30	140	0	36	0.01	0.54	0.44	1.17	0.58	0.03	0.00
TC-92-29-440	6	40	0.001	0.6	40	2	0	0	5	6	18	5	10	0	0.0	3	213	6	0	8	70	1.5	0	10	30	50	0	38	0.00	0.72	0.63	0.86	0.70	0.05	0.00
TC-92-29-445	6	125	0.004	5.8	62	2	0	0	6	6	14	4	10	0	0.0	3	187	7	0	5	70	30.0	0	10	20	120	0	42	0.00	0.63	0.47	0.83	0.73	0.02	0.01
TC-92-29-450	4	45	0.001	1.6	68	2	0	0	9	6	28	5	0	0	0.0	3	152	7	0	7	20	0.5	0	20	15	170	0	21	0.00	0.31	0.20	1.25	0.23	0.02	0.00
TC-92-29-455	6	105	0.003	1.2	58	2	0	0	9	10	26	1	0	0	0.0	3	106	7	0	5	40	0.5	0	20	50	230	0	21	0.00	0.28	0.08	1.13	0.21	0.05	0.00
TC-92-29-460	10	35	0.001	0.8	50	4	0	0	6	6	20	10	0	0	0.0	2	193	6	0	6	180	2.5	0	10	15	80	0	69	0.00	1.27	1.37	0.88	1.35	0.04	0.01
TC-92-29-465	10	40	0.001	1.8	58	4	0	0	8	6	20	5	0	0	0.0	3	191	11	0	8	110	3.5	0	20	15	260	1	42	0.00	0.67	0.57	0.92	0.68	0.02	0.01
TC-92-29-470	10	65	0.002	2.2	122	2	0	0	8	4	24	5	380	0	0.0	86	126	11	0	5	40	4.0	0	20	15	260	1	20	0.00	0.34	0.20	1.36	0.32	0.03	0.00
TC-92-29-475	6	55	0.002	2.0	70	4	0	0	5	2	18	6	0	0	0.0	3	198	8	0	5	80	1.5	0	10	15	70	0	28	0.00	0.45	0.41	0.80	0.44	0.02	0.00
TC-92-29-480	8	55	0.002	2.2	64	2	0	0	5	2	18	6	10	0	0.0	3	178	7	0	5	150	2.5	0	10	15	70	0	44	0.00	0.61	0.60	0.68	0.58	0.02	0.00
TC-92-29-485	10	45	0.001	2.4	102	4	0	0	8	6	22	6	10	0	0.0	4	159	10	0	7	30	1.5	0	10	20	180	1	22	0.00	0.38	0.30	1.06	0.24	0.03	0.00

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-29

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-29-490	8	15	0.000	0.4	46	2	0	0	6	8	34	4	10	0	0.0	4	97	6	0	6	20	1.0	0	20	20	100	1	27	0.00	0.45	0.07	0.89	0.29	0.05	0.00
TC-92-29-495	6	15	0.000	0.8	60	2	0	0	6	14	36	4	10	0	0.0	3	70	7	0	7	20	1.5	0	20	20	100	1	34	0.00	0.57	0.08	1.14	0.34	0.07	0.00
TC-92-29-500	5	15	0.000	1.2	74	2	0	0	8	8	30	26	20	0	0.0	5	81	7	0	4	30	1.0	0	20	15	170	1	25	0.00	0.38	0.07	1.00	0.27	0.04	0.00
TC-92-29-505	6	65	0.002	0.8	74	2	0	0	7	4	18	17	0	0	0.0	2	113	3	0	7	40	3.0	0	10	30	300	1	30	0.00	0.94	0.34	0.86	0.46	0.11	0.00
TC-92-29-510	6	150	0.004	2.0	106	2	0	0	11	8	16	21	0	0	0.0	3	76	3	0	6	40	2.5	0	20	30	410	1	33	0.00	1.00	0.26	0.88	0.53	0.11	0.01
TC-92-29-515	8	75	0.002	0.6	104	2	0	0	11	8	18	12	0	0	0.0	2	87	3	0	6	40	2.0	0	20	30	190	1	38	0.00	0.89	0.13	0.88	0.45	0.10	0.01
TC-92-29-520	6	40	0.001	0.2	46	2	0	0	6	4	12	13	10	0	0.0	3	140	4	0	4	20	0.5	0	10	25	100	0	30	0.00	0.64	0.43	0.68	0.27	0.07	0.01
TC-92-29-525	6	40	0.001	0.6	66	0	0	0	12	8	14	12	0	0	0.0	2	61	4	0	3	30	1.0	0	20	20	340	0	41	0.00	0.45	0.13	0.76	0.28	0.04	0.01
TC-92-29-530	6	30	0.001	0.4	48	2	0	0	9	6	12	12	0	0	0.0	2	94	3	0	3	30	1.0	0	10	20	140	0	32	0.00	0.44	0.14	0.75	0.25	0.04	0.00
TC-92-29-535	4	25	0.001	0.6	62	2	0	0	12	12	20	7	0	0	0.0	3	71	3	0	4	40	2.0	0	20	30	270	1	49	0.00	0.74	0.15	1.00	0.39	0.07	0.01
TC-92-29-540	3	20	0.001	0.2	54	0	0	0	8	8	20	8	0	0	0.0	1	92	4	0	4	30	1.5	0	10	30	210	0	42	0.00	0.73	0.15	1.10	0.34	0.07	0.01
TC-92-29-545	6	20	0.001	0.2	40	2	0	0	4	14	30	7	0	0	0.0	2	47	3	0	2	40	1.5	0	20	25	110	0	42	0.00	0.74	0.11	1.01	0.32	0.07	0.01
TC-92-29-550	7	20	0.001	0.2	48	2	0	0	4	10	22	8	0	0	0.0	2	61	4	0	2	40	2.0	0	20	30	50	0	46	0.00	0.72	0.08	1.15	0.32	0.07	0.01
# Samples	110																																		
Maximum	24	235	0.007	5.8	172	42	2	10	219	190	348	84	390	4	0.5	86	260	76	140	70	2510	30.0	30	40	800	1050	12	421	0.10	2.71	2.90	3.45	1.46	0.61	0.12
Minimum	3	0	0.000	0.0	2	0	0	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	0.0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	11	56	0.002	0.6	66	8	0	0	9	9	27	10	13	0	0.0	4	126	6	4	7	95	1.5	4	11	34	124	1	60	0.00	0.70	0.30	1.05	0.25	0.07	0.01
Std Dev	5	40	0.001	0.8	38	8	0	1	21	18	40	15	52	0	0.0	9	57	7	19	7	265	2.9	6	11	77	145	1	71	0.01	0.57	0.39	0.61	0.25	0.10	0.02

CHALLE[illegible]LD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-30

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-30- 5	10	20	0.001	0.4	26	4	0	0	20	16	60	1	0	0	0.0	5	45	12	0	30	1570	2.5	20	50	320	560	5	181	0.03	3.65	0.78	2.31	0.34	0.72	0.05
TC-92-30- 10	7	0	0.000	0.6	0	6	0	0	32	12	72	0	0	0	0.0	6	44	13	0	33	650	4.5	30	70	260	750	8	193	0.07	5.97	1.76	2.69	0.43	1.05	0.05
TC-92-30- 15	9	0	0.000	0.0	10	0	0	0	26	28	94	0	0	0	0.0	8	29	17	0	30	350	4.0	30	90	265	1110	9	490	0.03	6.73	1.26	2.93	0.44	1.25	0.05
TC-92-30- 20	11	0	0.000	0.2	12	2	1	0	21	28	88	0	0	2	0.0	7	22	16	0	23	2020	3.5	30	110	200	610	8	414	0.01	5.67	1.03	2.60	0.37	0.93	0.04
TC-92-30- 25	7	0	0.000	0.2	0	0	0	0	18	18	80	0	0	2	0.0	7	18	13	0	18	1300	3.0	30	100	200	460	7	380	0.00	5.00	1.05	2.19	0.31	0.81	0.03
TC-92-30- 30	9	0	0.000	0.2	0	0	4	0	13	12	88	0	0	2	0.0	5	40	7	0	28	1170	2.0	20	90	200	460	5	387	0.04	3.73	0.86	2.56	0.15	0.52	0.02
TC-92-30- 35	4	0	0.000	0.4	10	2	3	0	10	22	74	1	0	0	0.0	4	38	7	0	19	340	1.5	20	90	180	500	5	310	0.02	3.67	0.92	2.19	0.15	0.63	0.04
TC-92-30- 40	6	0	0.000	0.2	20	6	2	0	20	20	54	1	0	4	0.0	3	42	6	0	10	130	1.5	20	80	115	480	4	423	0.00	2.92	1.32	1.84	0.16	0.52	0.03
TC-92-30- 45	3	0	0.000	0.2	24	2	0	0	9	6	46	1	0	0	0.0	3	78	5	0	22	660	1.5	40	30	95	320	3	183	0.04	3.04	1.34	1.45	0.18	0.40	0.02
TC-92-30- 50	3	0	0.000	0.2	38	4	2	0	9	4	50	1	0	0	0.0	3	70	7	0	15	350	2.0	30	30	100	220	3	205	0.01	2.68	0.69	1.46	0.19	0.47	0.02
TC-92-30- 55	4	0	0.000	0.2	42	2	0	0	24	16	70	0	0	0	0.0	7	49	14	0	17	230	2.5	20	40	105	240	5	289	0.00	3.73	0.74	1.85	0.23	0.72	0.03
TC-92-30- 60	9	0	0.000	0.2	32	6	2	0	20	10	62	0	0	0	0.0	9	55	16	0	25	140	3.0	20	40	110	220	4	253	0.00	3.73	0.64	1.87	0.22	0.64	0.03
TC-92-30- 65	6	10	0.000	0.2	42	4	0	0	19	12	62	4	0	2	0.0	7	54	16	0	36	100	2.0	40	40	125	140	5	189	0.01	4.52	0.61	2.06	0.22	0.79	0.03
TC-92-30- 70	6	35	0.001	0.0	66	10	0	0	15	16	38	3	0	0	0.0	4	88	12	0	43	60	1.5	40	40	70	200	3	444	0.00	3.20	0.48	1.74	0.15	0.42	0.02
TC-92-30- 75	4	80	0.002	0.2	64	12	4	0	16	12	48	2	0	6	0.0	7	61	14	0	42	70	1.5	40	40	95	150	4	234	0.00	3.53	0.56	2.28	0.17	0.53	0.02
TC-92-30- 80	5	35	0.001	0.0	48	12	3	0	14	10	40	2	0	2	0.0	5	52	11	0	31	60	1.5	30	30	70	100	3	435	0.00	2.69	0.47	1.73	0.14	0.43	0.03
TC-92-30- 85	4	55	0.002	0.2	42	12	0	0	16	8	44	7	0	0	0.0	4	55	11	0	46	50	1.5	30	30	70	130	3	369	0.00	2.93	0.43	1.67	0.14	0.44	0.02
TC-92-30- 90	5	100	0.003	0.2	50	14	0	0	17	8	64	6	0	2	0.0	9	37	15	0	29	30	1.5	40	40	85	140	3	226	0.00	2.89	0.54	1.87	0.13	0.54	0.03
TC-92-30- 95	10	115	0.003	0.0	92	26	7	0	15	6	76	6	0	2	0.5	10	47	23	0	25	30	2.0	50	50	85	300	3	144	0.00	2.82	0.39	1.92	0.17	0.45	0.03
TC-92-30-100	5	70	0.002	0.2	66	22	1	0	17	8	92	5	0	0	0.0	9	23	22	0	24	30	2.5	60	40	130	490	5	299	0.00	3.36	0.42	1.85	0.21	0.65	0.04
TC-92-30-105	5	85	0.002	0.0	74	14	3	0	13	4	38	9	10	0	0.0	5	22	12	0	12	10	0.5	40	30	60	150	2	93	0.00	1.71	0.32	1.51	0.09	0.35	0.03
TC-92-30-110	14	130	0.004	0.2	66	10	1	0	11	8	38	6	10	0	0.0	4	61	11	0	17	30	0.5	30	20	55	290	2	113	0.00	1.76	0.33	1.38	0.12	0.31	0.02
TC-92-30-115	14	170	0.005	0.4	82	6	2	0	18	8	40	6	10	4	0.0	3	110	13	0	18	110	0.5	10	20	30	280	2	69	0.00	0.87	0.38	1.43	0.13	0.13	0.01
TC-92-30-120	9	100	0.003	0.2	86	6	0	0	8	4	20	5	0	0	0.0	3	107	12	0	14	100	0.0	10	20	15	200	1	34	0.00	0.89	0.24	1.13	0.16	0.07	0.01
TC-92-30-125	5	60	0.002	0.2	60	8	2	0	9	4	18	8	0	0	0.0	2	142	10	0	13	100	0.0	10	10	20	150	1	37	0.00	0.66	0.12	1.16	0.13	0.07	0.00
TC-92-30-130	11	55	0.002	0.2	56	10	1	0	9	8	24	8	0	0	0.0	2	196	10	0	11	70	0.5	10	10	25	160	1	32	0.00	0.52	0.15	1.34	0.18	0.05	0.00
TC-92-30-135	14	80	0.002	0.2	68	10	1	0	12	4	28	12	0	0	0.0	3	150	10	0	15	70	0.5	10	20	20	230	1	32	0.00	0.67	0.21	1.41	0.14	0.07	0.00
TC-92-30-140	10	90	0.003	0.2	60	8	2	0	8	6	30	9	0	2	0.0	3	206	13	0	19	90	0.0	10	20	25	240	1	45	0.00	0.95	0.65	1.52	0.16	0.08	0.01
TC-92-30-145	8	100	0.003	0.2	108	10	1	0	7	4	36	7	0	0	0.0	2	167	9	0	12	100	0.0	10	20	20	190	1	39	0.00	0.49	0.22	1.44	0.19	0.06	0.01
TC-92-30-150	16	90	0.003	0.2	108	8	0	0	10	4	34	4	10	0	0.0	3	110	9	0	14	80	0.0	10	20	20	280	1	61	0.00	0.68	0.29	1.53	0.15	0.11	0.01
TC-92-30-155	16	130	0.004	0.4	142	6	0	0	14	6	34	2	10	0	0.0	3	72	8	0	13	110	0.5	10	20	30	320	2	125	0.00	1.09	0.32	1.45	0.14	0.22	0.01
TC-92-30-160	12	80	0.002	0.2	100	6	0	0	12	0	34	2	10	0	0.0	2	62	6	0	15	110	1.0	10	20	25	270	2	104	0.00	1.10	0.40	1.42	0.17	0.20	0.00
TC-92-30-165	10	95	0.003	0.2	142	6	0	0	16	0	26	2	20	0	0.0	2	80	6	0	13	110	1.0	10	20	30	450	2	97	0.00	1.11	0.38	1.56	0.21	0.16	0.00
TC-92-30-170	19	50	0.001	0.2	134	6	0	0	10	4	14	1	10	0	0.0	2	61	5	0	18	130	2.0	20	20	35	590	2	123	0.00	1.59	0.70	1.39	0.21	0.28	0.01
TC-92-30-175	14	60	0.002	0.2	134	2	0	0	9	6	18	1	10	0	0.0	1	82	6	0	23	120	1.0	10	20	30	390	2	110	0.00	1.12	0.40	1.29	0.15	0.23	0.01
TC-92-30-180	8	40	0.001	0.2	68	6	1	0	9	4	18	2	10	0	0.0	3	78	10	0	18	130	1.0	20	30	30	670	2	136	0.00	1.40	0.41	1.28	0.16	0.24	0.01
TC-92-30-185	7	55	0.002	0.0	76	4	0	0	12	6	28	2	0	2	0.0	2	114	6	0	20	80	0.5	10	30	25	400	1	99	0.00	0.96	0.26	1.68	0.20	0.14	0.02
TC-92-30-190	14	70	0.002	0.0	104	6	3	0	10	6	26	1	0	4	0.0	4	130	10	0	22	100	0.5	10	20	40	490	1	83	0.01	0.60	0.26	1.44	0.18	0.14	0.02
TC-92-30-195	12	65	0.002	0.0	114	4	2	0	12	4	16	2	0	0	0.0	3	152	9	0	19	140	0.0	10	30	50	620	1	178	0.00	1.19	0.42	1.39	0.21	0.24	0.03
TC-92-30-200	6	80	0.002	0.0	164	4	1	0	11	6	22	1	0	2	0.0	2	102	11	0	13	110	0.0	10	30	65	560	1	260	0.00	1.59	0.51	1.76	0.15	0.35	0.02
TC-92-30-205	6	50	0.001	0.2	126	2	2	0	13	10	38	2	10	2	0.0	3	119	10	0	15	110	1.0	20	30	50	520	2	213	0.00	2.05	0.47	1.54	0.22	0.39	0.02
TC-92-30-210	5	35	0.001	0.2	92	6	1	0	15	10	14	0	30	0	0.0	3	78	8	0	20	70	2.5	20	40	40	360	4	176	0.01	3.97	1.48	2.21	0.33	0.32	0.02
TC-92-30-215	3	40	0.001	0.0	120	6	4	0	9	6	6	2	10	0	0.0	2	224	8	0	13	110	1.0	10	30	30	560	3	74	0.00	1.98	0.78	1.82	0.26	0.12	0.01
TC-92-30-220	3	10	0.000	0.0	32	2	2	0	8	2	6	1	10	0	0.0	2	122	6	0	14	180	0.5	10	10	25	470	1	116	0.00	1.37	0.28	1.06	0.14	0.12	0.01
TC-92-30-225	6	15	0.000	0.0	44	8	1	0	11	4	10	2	20	0	0.0	2	122	5	0	34	130	2.0	10	10	25	980	5	147	0.00	2.80	1.31	1.36	0.16	0.14	0.01
TC-92-30-230	8	15	0.000	0.0	56	12	5	0	19	8	176	5	10	2	0.0	8	85	17	30	24	50	0.5	10	0	25	440	3	121	0.00	1.64	0.27	3.01	0.21	0.15	0.01
TC-92-30-235	7	20	0.001	0.2	118	4	1	0	13	6	10	4	10	0	0.0	8	183	15	0	31	80	0.5	10	0	30	220	2	122	0.00	1.30	0.21	2.08	0.24	0.13	0.01
TC-92-30-240	6	10	0.000	0.0	28	2	2	0	10	2	12	1	0	2	0.0	5	246	14	20	20	130	0.5	10	10	25	240	2	59	0.00	1.10	0.14	1.52	0.21	0.07	0.01
TC-92-30-245	12	25	0.001	0.2	98	6	3	0	10	8	66	9	10	0	0.0	3	187	9	20	21	80	0.5	10	10	25	200	2	50	0.00	1.01	0.22	1.98	0.18	0.09	0.00

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Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-30-250	12	40	0.001	0.0	86	8	1	0	12	6	38	12	20	0	0.0	2	161	9	10	18	70	0.5	10	10	25	210	2	47	0.00	1.10	0.24	1.98	0.23	0.10	0.00
TC-92-30-255	8	30	0.001	0.2	68	6	0	0	14	6	20	10	10	0	0.0	5	148	9	0	22	50	0.5	10	20	20	260	2	34	0.00	0.86	0.12	2.11	0.15	0.07	0.00
TC-92-30-260	8	15	0.000	0.2	60	2	3	0	12	6	50	9	10	2	0.0	5	173	9	10	25	70	0.5	10	40	25	250	2	47	0.00	0.89	0.20	1.75	0.19	0.09	0.00
TC-92-30-265	14	0	0.000	0.0	22	2	1	0	10	8	38	5	0	0	0.0	4	148	8	0	17	160	0.5	10	20	20	230	2	49	0.00	1.10	0.15	1.27	0.23	0.10	0.00
TC-92-30-270	22	40	0.001	0.0	136	6	2	0	12	4	58	16	0	2	0.0	3	82	10	0	23	40	0.5	10	20	15	310	2	54	0.00	1.01	0.16	2.63	0.18	0.09	0.00
TC-92-30-275	15	45	0.001	0.2	90	8	0	0	11	12	50	9	10	2	0.0	4	169	12	0	18	30	0.5	10	30	30	240	2	51	0.00	1.12	0.17	2.62	0.29	0.12	0.01
TC-92-30-280	11	25	0.001	0.2	52	4	0	0	13	16	32	6	10	0	0.0	4	158	11	0	19	70	1.0	10	30	30	300	2	62	0.00	1.26	0.18	1.64	0.34	0.13	0.01
TC-92-30-285	12	20	0.001	0.2	62	6	1	0	11	12	56	6	10	0	0.0	3	122	12	0	13	70	0.5	10	20	25	330	2	54	0.00	0.76	0.17	1.63	0.21	0.08	0.00
TC-92-30-290	12	0	0.000	0.0	40	4	0	0	9	8	18	2	10	0	0.0	6	180	13	0	7	90	0.0	0	20	15	560	1	27	0.00	0.51	0.16	1.64	0.13	0.03	0.00
TC-92-30-295	26	10	0.000	0.0	86	16	1	0	12	12	38	9	10	0	0.0	3	88	10	0	18	30	0.0	10	20	10	420	2	30	0.00	1.97	0.71	3.52	0.19	0.06	0.00
TC-92-30-300	26	40	0.001	0.2	100	16	1	0	14	4	34	46	0	4	0.0	4	74	9	0	9	30	0.0	10	30	10	300	1	26	0.00	0.89	0.14	3.24	0.11	0.03	0.00
TC-92-30-305	24	20	0.001	0.0	56	10	1	0	15	10	42	29	0	0	0.0	3	85	10	0	11	70	0.0	10	20	10	310	1	25	0.00	1.37	0.30	1.56	0.11	0.04	0.00
TC-92-30-310	38	15	0.000	0.2	36	4	1	0	14	6	34	19	10	2	0.0	3	101	9	0	17	90	0.5	10	20	15	300	1	35	0.00	2.17	1.35	1.43	0.16	0.07	0.00
TC-92-30-315	26	10	0.000	0.2	50	4	2	0	11	8	38	7	0	0	0.0	3	101	11	0	16	90	0.5	10	30	15	440	1	38	0.00	1.29	0.25	1.66	0.20	0.07	0.00
TC-92-30-320	16	0	0.000	0.0	36	4	0	0	10	8	40	3	0	4	0.0	4	108	13	0	15	30	0.5	10	30	20	460	2	40	0.00	1.06	0.24	2.36	0.23	0.08	0.00
TC-92-30-325	17	0	0.000	0.0	60	8	1	0	11	8	36	5	0	2	0.0	3	97	9	0	14	70	0.5	10	30	25	310	2	44	0.00	1.38	0.44	2.16	0.25	0.10	0.01
TC-92-30-330	16	15	0.000	0.0	102	8	1	0	12	12	38	8	0	0	0.0	3	136	11	0	11	40	0.0	10	30	20	310	1	46	0.00	1.10	0.22	2.00	0.17	0.07	0.00
TC-92-30-335	20	30	0.001	0.0	116	10	1	0	12	8	34	14	0	0	0.0	3	89	9	0	20	60	0.0	10	30	25	250	1	52	0.00	0.82	0.14	2.80	0.18	0.08	0.00
TC-92-30-340	15	35	0.001	0.2	90	6	0	0	12	6	34	11	0	2	0.0	4	97	9	0	12	60	0.5	10	30	20	260	1	59	0.00	0.87	0.15	1.66	0.18	0.08	0.01
TC-92-30-345	10	60	0.002	0.2	140	14	1	0	11	6	26	15	0	0	0.0	2	113	9	0	12	30	0.0	10	20	25	300	1	66	0.00	0.97	0.22	4.60	0.24	0.11	0.01
TC-92-30-350	10	20	0.001	0.2	70	6	0	0	20	12	50	5	10	0	0.0	4	73	10	0	16	90	1.5	10	40	40	450	2	118	0.00	1.96	0.40	1.92	0.60	0.17	0.01
TC-92-30-355	10	25	0.001	0.4	164	16	3	0	11	6	38	32	0	0	0.0	3	52	7	0	9	30	0.5	10	20	30	200	1	78	0.00	1.59	0.35	3.63	0.46	0.12	0.01
TC-92-30-360	10	15	0.000	0.4	68	6	0	0	8	14	44	14	10	0	0.0	2	32	4	0	5	80	0.5	10	20	20	150	1	90	0.00	1.16	0.27	1.49	0.25	0.09	0.01
TC-92-30-365	17	5	0.000	0.2	34	6	0	0	9	4	38	13	10	2	0.0	2	87	6	0	9	130	0.5	10	20	25	290	1	68	0.00	1.46	0.54	1.16	0.28	0.11	0.01
TC-92-30-370	10	30	0.001	0.2	88	8	2	0	7	10	30	12	0	0	0.0	2	44	4	0	8	80	1.0	10	20	25	320	1	81	0.00	1.51	0.52	1.63	0.43	0.13	0.01
TC-92-30-375	12	5	0.000	0.0	42	4	0	0	10	0	28	12	0	0	0.0	2	98	4	0	7	150	0.5	10	20	25	180	1	58	0.00	1.05	0.23	1.12	0.34	0.11	0.01
TC-92-30-380	7	0	0.000	0.0	36	2	3	0	21	2	54	5	0	0	0.0	2	166	6	0	12	90	0.0	10	20	25	320	1	62	0.00	1.13	0.34	1.87	0.35	0.10	0.01
TC-92-30-385	10	0	0.000	0.0	38	2	0	0	16	4	22	5	0	0	0.0	3	192	8	0	9	130	0.0	10	20	25	260	1	63	0.00	1.10	0.21	1.35	0.36	0.08	0.01
TC-92-30-390	6	0	0.000	0.2	24	2	2	0	18	4	6	4	0	4	0.0	4	145	4	0	5	190	0.0	0	20	20	400	0	67	0.00	0.82	0.20	1.08	0.33	0.06	0.01
TC-92-30-395	8	0	0.000	0.0	24	2	1	0	19	10	12	5	0	0	0.0	3	178	6	0	6	230	0.0	0	20	20	380	0	75	0.00	0.82	0.24	0.94	0.29	0.07	0.01
TC-92-30-400	8	0	0.000	0.2	22	2	2	0	25	6	14	4	0	0	0.0	3	193	7	0	7	200	0.0	0	20	25	330	0	69	0.00	0.78	0.20	1.00	0.30	0.06	0.01
TC-92-30-405	14	0	0.000	0.2	14	2	0	0	19	6	16	4	0	0	0.0	3	190	7	0	7	80	0.0	0	20	20	410	1	60	0.00	1.09	0.28	1.17	0.40	0.07	0.01
TC-92-30-410	10	0	0.000	0.2	6	0	2	0	25	6	14	7	0	2	0.0	3	216	5	0	9	90	0.5	10	20	25	420	1	70	0.00	1.45	0.49	1.19	0.45	0.09	0.01
TC-92-30-415	12	0	0.000	0.0	30	2	1	0	22	10	28	6	0	2	0.0	4	166	6	0	9	80	0.0	0	20	20	320	1	61	0.00	1.02	0.22	1.61	0.31	0.07	0.01
TC-92-30-420	10	0	0.000	0.2	48	4	0	0	26	6	22	10	0	0	0.0	3	193	6	0	9	80	0.0	0	20	20	330	1	58	0.00	0.94	0.25	1.81	0.30	0.07	0.01
TC-92-30-425	8	0	0.000	0.0	46	2	1	0	14	4	22	5	0	2	0.0	4	167	9	0	14	130	0.0	10	20	30	350	1	68	0.00	1.16	0.27	1.51	0.31	0.11	0.01
TC-92-30-430	20	10	0.000	0.0	42	4	1	0	14	8	26	6	0	0	0.0	3	136	6	0	12	130	0.0	10	20	35	400	1	82	0.00	0.93	0.26	1.45	0.29	0.12	0.01
TC-92-30-435	18	10	0.000	0.0	42	2	0	0	17	4	28	6	0	2	0.0	5	119	8	0	10	100	0.0	10	20	35	400	1	73	0.00	0.88	0.26	1.59	0.24	0.11	0.01
TC-92-30-440	10	0	0.000	0.0	8	0	0	0	19	8	34	5	0	4	0.0	3	153	5	0	6	140	0.5	0	20	60	540	1	82	0.00	1.12	0.28	1.45	0.37	0.18	0.01
TC-92-30-445	20	0	0.000	0.0	40	2	0	0	23	8	32	5	0	2	0.0	4	120	7	0	9	110	0.5	10	30	45	480	1	76	0.00	1.09	0.30	1.66	0.35	0.15	0.01
TC-92-30-450	14	0	0.000	0.0	14	2	1	0	19	8	28	3	0	2	0.5	4	123	6	0	5	100	0.5	0	30	60	530	1	91	0.00	0.91	0.29	1.49	0.30	0.17	0.01
TC-92-30-455	10	0	0.000	0.0	14	2	1	0	15	6	18	2	0	0	0.0	2	125	4	0	5	100	0.5	0	20	50	550	1	90	0.00	0.97	0.25	1.38	0.35	0.15	0.01
TC-92-30-460	10	0	0.000	0.0	18	2	0	0	21	4	34	4	0	2	0.5	4	140	5	0	5	80	0.5	0	20	45	620	1	96	0.00	0.94	0.30	1.61	0.31	0.14	0.01
TC-92-30-465	9	0	0.000	0.2	38	4	0	0	45	16	22	8	0	0	0.0	4	156	5	0	9	70	0.5	10	30	25	460	1	84	0.00	1.16	0.25	2.02	0.35	0.08	0.01
TC-92-30-470	9	5	0.000	0.4	46	2	0	0	46	14	30	5	0	0	0.5	4	157	5	0	9	110	0.5	10	30	45	610	1	97	0.00	1.50	0.30	1.73	0.48	0.16	0.01
TC-92-30-475	9	15	0.000	0.0	62	2	0	0	27	8	16	5	0	0	0.0	3	150	5	0	7	110	0.5	10	30	50	520	1	97	0.00	1.20	0.28	1.72	0.41	0.18	0.01
TC-92-30-480	11	0	0.000	0.2	36	0	1	0	21	4	26	2	0	2	0.0	3	159	5	0	8	170	0.5	10	20	70	510	1	106	0.00	1.29	0.26	1.31	0.47	0.22	0.02
TC-92-30-485	13	10	0.000	0.2	54	2	1	0	32	6	22	4	0	0	0.0	3	147	6	0	8	140	0.5	10	20	65	460	1	94	0.00	1.13	0.28	1.41	0.38	0.21	0.01

CHALL[redacted]OLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-30

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-30-490	11	5	0.000	0.0	54	2	0	0	42	8	22	9	0	2	0.0	3	109	5	0	8	140	0.5	0	20	90	510	1	117	0.01	1.11	0.30	1.44	0.41	0.27	0.02
TC-92-30-495	10	0	0.000	0.0	34	4	0	0	32	4	22	1	0	2	0.0	2	100	5	0	8	130	1.0	0	30	105	540	1	109	0.00	1.12	0.28	1.27	0.45	0.26	0.02
TC-92-30-500	10	5	0.000	0.2	64	2	2	0	46	6	28	4	0	0	0.0	3	100	5	0	6	90	1.0	10	30	60	560	1	102	0.00	1.05	0.30	1.45	0.33	0.16	0.01
# Samples	200																																	
Maximum	38	170	0.005	0.6	164	26	7	0	46	28	176	46	30	6	0.5	10	246	23	30	46	2020	4.5	60	110	320	1110	9	490	0.07	6.73	1.76	4.60	0.60	1.25	0.05
Minimum	3	0	0.000	0.0	0	0	0	0	7	0	6	0	0	0	0.0	1	18	4	0	5	10	0.0	0	0	10	100	0	25	0.00	0.49	0.12	0.94	0.09	0.03	0.00
Average	11	30	0.001	0.1	62	6	1	0	16	8	38	6	4	1	0.0	4	111	9	1	16	170	0.8	14	29	54	377	2	124	0.00	1.73	0.43	1.78	0.25	0.24	0.01
Std Dev	6	37	0.001	0.1	39	5	1	0	8	5	24	7	6	1	0.1	2	53	4	4	9	299	0.9	12	19	57	173	2	107	0.01	1.25	0.33	0.60	0.11	0.24	0.01

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-31

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-31- 5	5	30	0.001	0.2	76	4	0	0	17	10	44	23	20	0	0.0	3	78	7	0	28	670	1.0	10	30	425	340	3	93	0.01	2.13	0.95	1.70	0.40	0.37	0.06
TC-92-31- 10	12	15	0.000	0.2	50	2	0	0	19	12	44	22	20	0	0.0	4	54	7	0	30	420	1.0	10	40	650	300	3	87	0.01	2.10	0.87	1.60	0.40	0.39	0.07
TC-92-31- 15	7	10	0.000	0.2	48	0	0	0	21	12	52	20	10	0	0.0	5	38	12	0	34	420	1.0	10	40	505	370	4	100	0.02	2.42	0.72	1.88	0.47	0.50	0.08
TC-92-31- 20	6	30	0.001	0.2	78	4	0	0	17	8	34	11	20	0	0.0	3	62	11	0	23	570	0.5	10	30	340	250	1	63	0.02	1.15	0.42	1.35	0.29	0.22	0.04
TC-92-31- 25	12	25	0.001	0.2	68	2	0	0	15	6	34	25	10	0	0.0	2	49	6	0	20	470	0.5	10	30	220	240	1	63	0.01	1.09	0.32	1.19	0.22	0.20	0.03
TC-92-31- 30	9	40	0.001	0.4	54	4	2	0	16	10	34	14	10	2	0.0	3	49	10	0	19	380	1.5	0	30	155	260	1	71	0.01	0.85	0.22	1.12	0.23	0.14	0.02
TC-92-31- 35	5	20	0.001	0.2	144	6	0	0	14	18	30	223	10	0	0.0	1	25	2	0	14	1260	0.5	10	30	440	190	1	120	0.00	1.94	1.57	1.82	0.23	0.16	0.03
TC-92-31- 40	8	0	0.000	0.0	30	2	1	0	34	10	24	51	0	0	0.0	3	53	6	0	19	2750	1.0	10	50	580	490	2	109	0.00	1.99	2.24	1.15	0.47	0.34	0.03
TC-92-31- 45	12	0	0.000	0.2	12	2	0	0	42	10	44	6	0	4	0.0	4	33	8	0	23	330	2.0	20	60	170	510	4	110	0.00	3.01	0.58	1.79	0.72	0.48	0.03
TC-92-31- 50	13	0	0.000	0.2	0	0	0	0	30	14	46	6	0	6	0.0	3	27	8	0	19	600	2.0	20	70	170	470	4	132	0.00	2.88	0.58	1.74	0.77	0.44	0.03
TC-92-31- 55	10	0	0.000	0.2	16	0	0	0	25	22	32	1	0	0	0.0	3	22	6	0	13	200	3.0	20	80	85	320	3	113	0.00	2.46	0.45	1.32	0.86	0.32	0.03
TC-92-31- 60	3	0	0.000	0.2	14	0	1	0	15	16	36	2	0	0	0.0	2	26	6	0	10	150	2.0	20	80	295	250	2	154	0.00	2.40	1.63	1.09	0.62	0.27	0.04
TC-92-31- 65	5	0	0.000	0.0	16	2	1	0	9	16	36	1	0	4	0.0	2	46	6	0	9	100	1.5	10	70	325	240	2	137	0.00	1.69	1.74	0.90	0.43	0.22	0.04
TC-92-31- 70	4	0	0.000	0.0	0	0	0	0	11	12	42	0	0	0	0.0	2	47	7	0	14	130	1.0	10	60	440	190	2	129	0.00	1.94	1.96	1.14	0.48	0.27	0.04
TC-92-31- 75	2	0	0.000	0.2	4	0	2	0	13	12	34	1	0	0	0.0	2	38	5	0	9	80	1.0	10	60	550	100	2	126	0.00	1.76	2.04	1.04	0.50	0.23	0.04
TC-92-31- 80	2	0	0.000	0.2	12	0	0	0	9	18	40	2	0	0	0.0	1	30	5	0	9	190	1.5	10	70	295	180	2	142	0.00	2.37	1.13	1.18	0.66	0.23	0.05
TC-92-31- 85	1	0	0.000	0.0	8	2	0	0	19	8	50	1	0	2	0.0	2	73	4	0	18	140	1.0	10	50	300	320	2	109	0.00	2.02	1.37	1.53	0.62	0.22	0.05
TC-92-31- 90	5	0	0.000	0.2	0	0	0	0	24	10	60	1	0	2	0.0	2	70	5	0	18	120	0.5	10	60	360	420	2	135	0.00	1.83	1.86	1.54	0.57	0.24	0.04
TC-92-31- 95	6	0	0.000	0.2	6	0	0	0	30	14	50	1	0	0	0.0	2	45	5	0	15	310	1.0	20	80	355	380	3	159	0.00	2.47	1.83	1.45	0.78	0.27	0.04
TC-92-31-100	6	0	0.000	0.0	0	0	0	0	41	16	56	0	0	4	0.0	3	29	7	0	16	250	1.5	20	100	320	540	4	166	0.01	2.94	1.66	1.64	1.22	0.45	0.05
TC-92-31-105	2	0	0.000	0.2	0	2	2	0	49	20	56	0	10	0	0.5	4	32	7	0	19	300	1.5	20	90	365	500	4	172	0.01	3.19	1.97	1.68	1.30	0.46	0.05
TC-92-31-110	2	0	0.000	0.0	0	0	1	0	40	14	46	0	0	0	0.0	3	24	8	0	15	230	1.5	20	80	335	370	3	167	0.01	2.66	1.80	1.34	1.09	0.38	0.04
TC-92-31-115	3	0	0.000	0.0	0	0	0	0	28	12	44	0	0	2	0.0	2	28	6	0	12	170	1.5	10	70	345	370	2	163	0.00	2.08	1.90	1.14	0.89	0.29	0.04
TC-92-31-120	2	0	0.000	0.2	0	0	2	0	13	12	38	0	0	2	0.0	2	16	4	0	10	170	1.0	10	70	305	300	2	127	0.00	1.88	1.68	1.09	0.89	0.18	0.03
TC-92-31-125	1	0	0.000	0.0	0	2	0	0	15	14	74	0	0	0	0.0	1	16	4	0	11	200	1.0	10	70	380	350	2	148	0.00	1.86	2.02	1.11	0.93	0.18	0.04
TC-92-31-130	8	0	0.000	0.2	2	2	1	0	10	20	30	0	0	0	0.0	1	7	1	0	3	160	1.0	10	70	255	220	1	130	0.00	1.09	1.27	0.60	0.55	0.10	0.03
TC-92-31-135	7	0	0.000	0.2	0	0	2	0	18	22	26	0	0	0	0.0	0	8	0	0	2	160	1.0	10	70	255	160	1	110	0.00	1.30	1.08	0.69	0.66	0.09	0.03
TC-92-31-140	7	0	0.000	0.2	4	2	1	0	7	22	24	0	0	2	0.0	0	8	1	0	1	120	0.5	10	70	210	180	1	121	0.00	1.10	1.03	0.68	0.52	0.09	0.03
TC-92-31-145	1	0	0.000	0.0	0	0	1	0	18	18	28	0	0	2	0.0	0	11	1	0	2	220	1.0	10	80	240	250	1	154	0.00	1.75	1.43	0.73	0.78	0.11	0.04
TC-92-31-150	5	0	0.000	0.0	2	0	1	0	6	24	26	0	0	0	0.0	0	6	1	0	1	210	1.0	10	70	225	170	1	159	0.00	1.83	1.40	0.66	0.75	0.09	0.04
TC-92-31-155	6	0	0.000	0.0	8	0	1	0	5	18	20	0	0	2	0.0	0	4	1	0	1	110	1.0	10	80	125	160	1	141	0.00	1.48	1.02	0.53	0.70	0.08	0.03
TC-92-31-160	4	0	0.000	0.0	14	0	2	0	7	18	36	0	0	2	0.0	1	4	0	0	5	160	1.0	10	80	180	350	2	132	0.00	1.87	1.47	0.93	1.05	0.08	0.03
TC-92-31-165	6	0	0.000	0.2	0	0	1	0	9	22	22	1	0	0	0.0	0	11	1	0	3	170	1.5	10	80	315	180	1	171	0.00	1.62	2.36	0.53	0.82	0.09	0.03
TC-92-31-170	8	0	0.000	0.0	4	0	0	0	19	16	24	1	0	2	0.0	2	64	4	0	13	120	2.0	10	60	210	400	2	129	0.00	1.73	1.10	0.97	0.76	0.27	0.04
TC-92-31-175	12	0	0.000	0.0	0	0	2	0	21	10	24	1	0	2	0.0	2	91	5	0	18	140	1.5	10	40	105	380	2	104	0.00	2.17	0.45	1.16	0.78	0.26	0.04
TC-92-31-180	8	0	0.000	0.0	8	2	1	0	29	10	26	1	0	2	0.0	2	98	5	0	17	200	2.0	10	50	170	430	2	123	0.00	2.00	0.82	1.32	0.72	0.27	0.04
TC-92-31-185	4	0	0.000	0.0	6	0	0	0	20	8	30	0	0	0	0.0	3	90	5	0	20	190	1.5	10	40	105	360	2	116	0.00	2.23	0.42	1.26	0.78	0.28	0.04
TC-92-31-190	10	0	0.000	0.0	0	0	2	0	25	10	34	0	0	2	0.0	3	84	5	0	21	240	2.0	10	50	130	440	3	136	0.00	2.57	0.59	1.47	0.86	0.33	0.04
TC-92-31-195	8	0	0.000	0.0	0	0	0	0	21	12	28	1	0	0	0.0	3	102	5	0	15	210	1.0	10	40	90	400	2	110	0.00	1.68	0.36	1.43	0.56	0.25	0.04
TC-92-31-200	14	0	0.000	0.2	0	0	0	0	27	16	36	0	0	0	0.0	3	59	6	0	16	220	2.0	10	50	190	440	3	150	0.00	2.12	1.48	1.20	0.70	0.31	0.04
TC-92-31-205	4	0	0.000	0.2	0	0	0	0	26	18	34	0	0	2	0.0	3	50	4	0	14	200	1.0	10	60	215	470	3	176	0.00	1.67	1.79	1.13	0.63	0.31	0.04
TC-92-31-210	7	0	0.000	0.0	0	2	4	0	27	20	32	0	0	0	0.0	2	42	3	0	15	260	1.0	10	50	260	490	3	205	0.00	1.86	2.52	1.11	0.67	0.31	0.04
TC-92-31-215	10	0	0.000	0.2	0	2	0	0	25	20	32	0	0	0	0.0	2	55	3	0	16	240	1.0	10	50	200	460	3	181	0.00	2.06	1.71	1.22	0.70	0.32	0.04
TC-92-31-220	14	0	0.000	0.0	4	2	0	0	27	14	28	0	0	4	0.0	2	89	3	0	16	150	0.5	10	50	130	460	2	123	0.00	1.61	0.66	1.24	0.52	0.29	0.03
TC-92-31-225	4	0	0.000	0.2	6	0	0	0	20	12	28	1	0	2	0.0	2	124	3	0	14	190	0.5	10	40	110	410	2	108	0.00	1.85	0.63	1.16	0.57	0.25	0.04
TC-92-31-230	16	0	0.000	0.0	0	2	0	0	31	16	34	2	0	2	0.5	4	69	5	0	13	160	1.0	10	50	110	430	2	129	0.00	1.77	0.53	1.44	0.48	0.27	0.03
TC-92-31-235	12	0	0.000	0.2	0	0	0	0	35	20	44	0	0	2	0.5	3	79	4	0	17	310	2.0	10	70	240	430	3	203	0.00	2.63	2.11	1.45	0.82	0.36	0.04
TC-92-31-240	10	0	0.000	0.0	10	2	0	0	28	18	36	0	0	4	0.0	3	61	4	0	15	300	1.5	10	70	240	440	3	209	0.00	2.19	2.17	1.28	0.74	0.34	0.04
TC-92-31-245	7	0	0.000	0.0	0	2	0	0	29	20	40	0	0	2	0.0	3	76	4	0	16	260	1.5	10	60	190	450	3	170	0.00	2.32	1.42	1.43	0.77	0.34	0.04

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-31

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-31-250	6	0	0.000	0.2	12	0	1	0	32	24	44	0	0	0	0.0	4	64	6	0	17	250	2.0	10	60	165	460	3	161	0.00	2.31	0.84	1.46	0.80	0.37	0.04
TC-92-31-255	8	0	0.000	0.2	6	4	0	0	33	22	44	0	0	4	0.0	3	81	6	0	17	240	2.0	10	70	190	540	3	174	0.00	2.40	1.02	1.54	0.81	0.41	0.04
TC-92-31-260	9	15	0.000	0.2	22	0	2	0	21	10	30	0	0	4	0.0	3	74	5	0	14	140	1.0	10	50	170	610	2	134	0.00	1.93	0.96	1.38	0.59	0.29	0.04
TC-92-31-265	10	0	0.000	0.2	8	0	0	0	24	18	34	0	0	0	0.0	3	61	5	0	14	180	1.5	10	60	180	500	2	140	0.01	1.50	1.04	1.29	0.58	0.32	0.03
TC-92-31-270	10	0	0.000	0.2	2	0	0	0	32	18	32	0	0	2	0.0	3	82	5	0	13	150	1.0	10	50	130	460	2	107	0.01	1.57	0.47	1.29	0.54	0.29	0.04
TC-92-31-275	8	15	0.000	0.2	30	0	0	0	38	16	30	1	0	4	0.0	4	80	5	0	13	110	0.5	10	50	105	540	1	96	0.00	1.41	0.34	1.54	0.42	0.25	0.04
TC-92-31-280	7	10	0.000	0.2	14	0	0	0	26	20	34	1	0	2	0.0	4	90	5	0	11	140	1.0	10	60	135	430	2	109	0.00	1.36	0.48	1.38	0.47	0.25	0.04
TC-92-31-285	6	0	0.000	0.0	8	4	1	0	44	24	44	0	0	2	0.0	2	73	5	0	15	200	2.5	10	70	210	450	3	163	0.00	2.15	1.28	1.46	0.76	0.32	0.04
TC-92-31-290	5	0	0.000	0.2	0	0	0	0	27	24	34	0	0	2	0.0	2	71	4	0	8	170	2.5	10	50	210	330	2	172	0.00	1.44	1.37	1.03	0.55	0.22	0.04
TC-92-31-295	7	20	0.001	0.2	40	0	1	0	21	18	30	0	0	2	0.0	2	91	6	0	10	120	2.0	10	50	105	470	1	117	0.00	1.53	0.41	1.31	0.49	0.20	0.04
TC-92-31-300	8	30	0.001	0.2	22	2	0	0	19	28	30	0	0	4	0.0	2	85	6	0	8	120	2.0	10	50	105	420	1	130	0.00	1.33	0.42	1.11	0.48	0.17	0.04
TC-92-31-305	7	0	0.000	0.2	10	0	0	0	15	38	40	0	0	0	0.0	2	77	4	0	8	170	3.0	10	50	180	370	2	172	0.00	2.18	1.01	1.17	0.82	0.23	0.05
TC-92-31-310	6	0	0.000	0.2	4	0	0	0	9	54	38	0	0	2	0.0	1	49	3	10	5	140	5.0	10	20	295	250	1	207	0.00	2.20	2.24	0.81	0.97	0.14	0.04
TC-92-31-315	6	0	0.000	0.2	8	0	0	0	11	48	32	0	0	0	0.0	1	35	2	10	3	140	4.0	10	20	215	240	1	195	0.00	1.45	2.11	0.33	0.66	0.07	0.04
TC-92-31-320	6	0	0.000	0.2	0	0	0	0	18	26	34	0	0	2	0.0	1	57	2	0	7	160	3.0	10	50	195	350	1	170	0.00	1.77	1.54	0.69	0.75	0.15	0.04
TC-92-31-325	5	0	0.000	0.2	12	0	0	0	14	28	28	0	0	4	0.0	2	77	3	0	6	140	1.5	10	50	195	350	1	138	0.00	1.32	1.48	0.82	0.55	0.15	0.03
TC-92-31-330	4	0	0.000	0.0	2	2	0	0	12	18	26	0	0	2	0.0	1	64	2	0	7	170	1.0	10	60	215	400	1	136	0.00	1.44	1.92	0.90	0.63	0.14	0.04
TC-92-31-335	5	0	0.000	0.2	4	0	0	0	17	18	30	0	0	0	0.0	1	55	3	0	6	150	0.5	10	60	180	370	1	130	0.00	1.20	1.44	0.88	0.51	0.14	0.03
TC-92-31-340	5	0	0.000	0.2	18	2	1	0	16	16	24	0	0	0	0.0	1	68	3	0	5	110	0.0	10	40	145	410	1	97	0.00	0.86	0.92	0.95	0.36	0.12	0.03
TC-92-31-345	5	0	0.000	0.0	10	0	0	0	11	12	22	0	0	4	0.0	2	64	2	0	8	120	0.0	10	40	165	360	1	111	0.00	1.00	1.16	0.89	0.42	0.14	0.04
TC-92-31-350	4	0	0.000	0.2	0	2	1	0	23	16	30	0	0	2	0.0	2	32	3	0	10	200	1.0	10	60	195	420	2	151	0.00	1.50	1.30	1.10	0.70	0.17	0.04
TC-92-31-355	5	0	0.000	0.2	8	2	0	0	25	20	32	0	0	0	0.0	1	30	3	0	7	230	1.5	10	70	175	250	2	155	0.00	1.46	1.15	1.00	0.68	0.13	0.04
TC-92-31-360	5	0	0.000	0.2	0	2	0	0	16	24	36	0	0	4	0.0	0	17	2	0	6	240	1.0	10	60	155	170	1	144	0.00	1.81	1.02	1.02	0.89	0.11	0.04
TC-92-31-365	5	0	0.000	0.2	2	2	1	0	17	20	30	0	0	0	0.0	1	51	3	0	8	210	1.0	10	60	180	290	2	139	0.00	1.76	1.18	1.06	0.78	0.14	0.04
TC-92-31-370	5	0	0.000	0.0	0	0	0	0	8	20	86	0	0	4	0.0	4	33	1	0	13	170	1.0	20	60	565	330	3	113	0.00	2.04	1.86	2.60	0.81	0.10	0.03
TC-92-31-375	5	0	0.000	0.0	0	4	1	0	10	14	116	0	0	2	0.0	3	35	2	0	12	140	1.0	10	50	665	440	2	119	0.00	1.67	2.13	2.34	0.67	0.09	0.02
TC-92-31-380	5	0	0.000	0.0	0	2	0	0	9	16	88	0	0	0	0.5	2	27	1	0	7	150	0.5	10	70	750	370	2	130	0.00	1.69	2.48	1.65	0.70	0.08	0.03
TC-92-31-385	6	0	0.000	0.0	0	2	0	0	11	20	56	1	0	0	0.0	2	36	2	0	8	190	1.0	10	60	445	300	2	120	0.00	1.96	1.53	1.53	0.85	0.11	0.03
TC-92-31-390	5	0	0.000	0.0	0	0	1	0	6	28	52	0	0	2	0.5	1	11	0	0	3	160	0.5	10	70	710	330	1	123	0.00	1.82	1.53	1.27	0.80	0.06	0.03
TC-92-31-395	4	0	0.000	0.0	8	2	0	0	11	26	54	0	0	4	1.0	2	10	1	0	4	200	0.5	10	80	545	290	2	144	0.00	1.94	1.63	1.13	0.90	0.08	0.03
TC-92-31-400	4	0	0.000	0.2	8	0	0	0	16	24	36	0	0	2	0.0	2	67	3	0	7	140	0.5	10	50	340	330	1	196	0.00	1.29	2.25	1.34	0.52	0.13	0.02
# Samples	80																																	
Maximum	16	40	0.001	0.4	144	6	4	0	49	54	116	223	20	6	1.0	5	124	12	10	34	2750	5.0	20	100	750	610	4	209	0.02	3.19	2.52	2.60	1.30	0.50	0.08
Minimum	1	0	0.000	0.0	0	0	0	0	5	6	20	0	0	0	0.0	0	4	0	0	1	80	0.0	0	20	85	100	1	63	0.00	0.85	0.22	0.33	0.22	0.06	0.02
Average	7	3	0.000	0.1	12	1	1	0	21	18	38	5	1	2	0.0	2	51	4	0	12	256	1.3	11	58	268	356	2	137	0.00	1.86	1.30	1.23	0.67	0.23	0.04
Std Dev	3	8	0.000	0.1	23	1	1	0	10	8	15	26	4	2	0.2	1	28	2	2	7	323	0.8	3	16	153	109	1	32	0.00	0.49	0.61	0.38	0.21	0.11	0.01

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-32

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-32- 5	5	0	0.000	0.8	22	4	0	0	18	16	50	0	10	0	0.0	7	59	13	0	30	540	1.0	10	40	345	590	4	100	0.03	2.29	0.80	2.10	0.44	0.49	0.03
TC-92-32- 10	1	0	0.000	0.6	28	4	1	0	24	22	40	2	0	0	0.0	6	71	11	0	24	420	3.5	10	50	270	580	3	145	0.01	2.37	1.13	1.92	0.54	0.47	0.14
TC-92-32- 15	3	0	0.000	0.6	74	2	0	0	26	18	40	1	0	0	0.0	6	64	11	0	22	220	3.0	20	60	275	570	4	116	0.01	2.20	0.95	1.81	0.50	0.49	0.14
TC-92-32- 20	2	0	0.000	0.6	106	4	0	0	26	12	60	3	0	0	0.0	17	93	34	0	27	160	5.0	20	50	905	720	4	100	0.02	2.48	1.70	2.15	0.50	0.48	0.07
TC-92-32- 25	3	0	0.000	0.8	114	2	0	0	21	16	50	2	0	2	0.0	7	89	15	0	27	110	2.5	20	60	255	900	4	138	0.02	2.03	0.81	2.17	0.53	0.46	0.04
TC-92-32- 30	6	0	0.000	0.8	70	0	0	0	22	14	56	0	0	2	0.0	5	89	9	0	22	140	2.5	20	60	155	760	4	94	0.01	1.78	0.69	1.78	0.48	0.33	0.02
TC-92-32- 35	8	15	0.000	0.6	90	0	0	0	22	16	46	0	0	2	0.0	4	69	8	0	19	180	2.5	20	60	130	660	4	71	0.00	1.66	0.48	1.64	0.48	0.23	0.02
TC-92-32- 40	4	5	0.000	0.6	90	2	0	0	18	16	30	1	0	0	0.0	3	109	6	0	22	380	2.5	10	50	115	560	4	93	0.01	3.13	1.64	1.73	0.53	0.25	0.03
TC-92-32- 45	7	10	0.000	0.6	98	4	0	0	35	22	60	1	10	0	0.0	4	48	7	0	16	200	1.5	20	60	115	410	3	67	0.00	2.04	0.81	3.38	0.53	0.20	0.03
TC-92-32- 50	8	15	0.000	0.6	104	6	0	0	30	22	80	1	10	0	0.0	6	37	9	0	13	160	2.0	20	70	100	430	3	60	0.00	2.24	0.57	2.33	0.52	0.15	0.02
TC-92-32- 55	6	10	0.000	0.6	102	2	0	0	25	28	76	0	10	0	0	6	27	8	0	11	70	1.5	10	70	100	280	3	54	0.00	1.75	0.47	1.73	0.45	0.14	0.02
TC-92-32- 60	11	25	0.001	0.6	136	4	0	0	24	30	60	0	20	0	0.0	4	39	5	0	23	160	3.0	20	60	160	620	4	109	0.01	2.21	0.69	4.47	0.56	0.18	0.03
TC-92-32- 65	12	30	0.001	0.6	122	6	0	0	18	30	68	4	20	0	0.0	4	23	5	0	15	110	2.0	20	70	85	370	3	67	0.01	2.09	0.53	2.94	0.54	0.12	0.02
TC-92-32- 70	14	60	0.002	1.2	94	4	0	0	11	26	92	2	20	0	0.0	6	15	2	0	17	60	2.5	20	70	155	360	5	59	0.04	2.30	0.66	2.52	1.05	0.32	0.01
TC-92-32- 75	9	30	0.001	1.0	70	6	1	0	22	28	80	1	10	0	0.0	5	30	6	0	8	40	3.0	20	80	110	250	2	72	0.00	1.52	0.31	1.48	0.83	0.21	0.01
TC-92-32- 80	10	25	0.001	1.2	74	2	0	0	37	32	86	0	10	0	0.0	6	36	7	0	9	40	3.5	20	80	500	190	3	82	0.00	2.09	0.21	1.79	1.00	0.25	0.01
TC-92-32- 85	5	30	0.001	1.2	76	2	0	0	29	34	88	1	10	0	0.0	6	36	7	0	9	290	3.5	20	90	255	220	3	82	0.00	1.88	0.27	1.79	0.93	0.24	0.01
TC-92-32- 90	16	30	0.001	1.0	92	6	1	0	20	26	60	1	10	0	0.0	4	49	5	0	19	70	2.5	20	40	110	190	3	75	0.01	3.44	1.73	1.84	0.98	0.22	0.01
TC-92-32- 95	10	25	0.001	0.4	94	10	0	0	16	20	50	0	10	0	0.0	5	49	9	0	11	40	1.0	10	50	45	140	2	43	0.00	2.19	0.58	1.89	0.41	0.08	0.00
TC-92-32-100	8	20	0.001	0.4	100	4	0	0	16	20	60	0	10	0	0.0	7	77	18	0	13	90	1.0	10	50	130	230	2	43	0.00	2.02	0.46	2.18	0.38	0.08	0.00
TC-92-32-105	2	25	0.001	0.4	88	4	0	0	17	16	52	0	10	0	0.0	6	76	17	0	13	180	1.5	10	50	400	130	2	59	0.00	1.60	0.31	2.25	0.54	0.12	0.01
TC-92-32-110	7	15	0.000	0.6	64	6	0	0	16	24	72	0	20	0	0	6	50	15	0	10	300	2.0	20	70	410	240	2	96	0.00	1.76	0.30	2.10	0.64	0.13	0.01
TC-92-32-115	7	25	0.001	0.6	76	8	1	0	19	28	90	2	20	0	0.0	6	30	11	0	15	210	2.5	20	70	200	210	2	99	0.00	2.91	0.61	1.79	0.53	0.11	0.01
TC-92-32-120	8	10	0.000	0.2	76	8	2	0	11	20	38	2	10	0	0.0	3	33	4	0	10	250	3.5	20	40	105	170	1	128	0.00	3.32	1.36	1.23	0.26	0.07	0.01
TC-92-32-125	3	0	0.000	0.4	50	4	0	0	12	20	50	1	10	0	0.0	3	42	3	0	9	300	2.5	20	40	270	190	1	84	0.00	2.43	0.54	1.42	0.28	0.07	0.01
TC-92-32-130	5	0	0.000	0.2	34	4	0	0	12	20	56	3	10	0	0.0	3	27	1	0	5	730	1.5	10	60	165	210	1	95	0.00	2.10	0.31	0.98	0.15	0.05	0.01
TC-92-32-135	4	0	0.000	0.2	44	4	1	0	14	24	66	3	10	0	0.0	3	16	2	0	5	580	1.5	10	70	355	240	1	109	0.00	1.95	0.32	1.32	0.22	0.05	0.01
TC-92-32-140	7	0	0.000	0.6	50	2	0	0	14	34	96	5	20	0	0.5	5	9	3	0	5	240	2.0	20	100	175	360	1	148	0.00	2.13	0.38	1.33	0.57	0.08	0.01
TC-92-32-145	4	25	0.001	0.6	68	8	0	0	20	16	48	2	10	0	0.0	3	25	3	0	3	50	0.0	10	40	40	120	0	77	0.00	0.96	0.17	1.29	0.31	0.04	0.00
TC-92-32-150	10	10	0.000	0.6	56	4	0	0	21	24	60	2	10	0	0.0	4	22	4	0	5	100	1.0	10	60	200	260	1	111	0.00	1.42	0.26	1.64	0.53	0.07	0.01
TC-92-32-155	10	70	0.002	0.8	52	12	1	0	15	10	34	5	0	0	0.0	2	127	4	0	1	100	0.0	0	20	25	40	0	29	0.00	0.47	0.08	1.15	0.04	0.01	0.00
TC-92-32-160	13	20	0.001	0.4	36	4	0	0	15	8	32	2	0	0	0.0	1	123	3	0	1	20	0.0	0	10	25	30	0	31	0.00	0.50	0.08	0.30	0.04	0.01	0.00
TC-92-32-165	7	70	0.002	0.6	50	8	0	0	8	10	36	3	0	0	0	2	132	4	0	2	90	0.0	0	20	55	40	0	31	0.00	0.51	0.08	1.05	0.07	0.01	0.00
TC-92-32-170	8	60	0.002	0.4	40	10	0	0	9	10	32	1	0	0	0.0	2	128	3	0	1	110	0.0	0	30	25	30	0	32	0.00	0.45	0.06	0.91	0.04	0.01	0.00
TC-92-32-175	16	25	0.001	0.6	44	8	0	0	6	16	32	1	0	0	0.0	2	56	2	0	2	160	0.0	10	40	30	60	0	52	0.00	0.78	0.08	1.06	0.23	0.01	0.00
TC-92-32-180	8	30	0.001	0.4	52	8	1	0	11	14	32	1	0	0	0.0	1	82	2	0	2	100	0.0	10	30	30	60	0	40	0.00	0.86	0.09	1.57	0.21	0.02	0.00
TC-92-32-185	6	10	0.000	0.6	28	4	0	0	7	20	40	0	0	0	0.0	2	34	2	0	2	260	0.0	10	60	60	140	0	99	0.00	0.98	0.16	0.86	0.44	0.03	0.01
TC-92-32-190	3	0	0.000	0.8	8	2	0	0	8	24	52	0	0	2	0.0	2	21	1	0	1	470	1.0	10	80	30	170	0	156	0.00	1.02	0.19	0.47	0.50	0.03	0.02
TC-92-32-195	3	0	0.000	0.8	4	2	0	0	8	28	66	0	0	0	0.0	2	12	1	0	2	380	1.0	20	80	40	210	0	198	0.00	1.17	0.24	0.45	0.57	0.04	0.02
TC-92-32-200	3	0	0.000	0.8	10	2	0	0	7	28	62	0	0	0	0.0	2	13	1	0	2	520	1.0	20	60	65	220	1	208	0.00	1.33	0.25	0.70	0.55	0.05	0.02
TC-92-32-205	2	0	0.000	1.0	14	4	0	0	13	32	64	0	0	0	0.0	2	20	1	0	1	460	1.0	20	90	55	240	1	205	0.00	1.52	0.26	0.72	0.69	0.06	0.02
TC-92-32-210	2	0	0.000	1.0	10	2	1	0	8	32	44	0	0	0	0.0	1	6	0	0	1	180	1.0	20	90	55	210	1	263	0.00	1.32	0.30	0.57	0.66	0.05	0.03
TC-92-32-215	6	0	0.000	1.0	4	2	0	0	8	28	38	0	0	0	0.0	1	9	0	0	1	160	1.0	20	80	95	220	0	255	0.00	1.24	0.30	0.60	0.58	0.06	0.02
TC-92-32-220	5	0	0.000	0.8	0	0	0	0	26	24	34	0	0	2	0	3	16	2	0	5	820	1.0	20	70	135	300	1	308	0.00	1.58	0.35	0.91	0.45	0.14	0.03
TC-92-32-225	5	0	0.000	0.8	2	4	1	0	29	10	32	0	0	4	0.0	5	81	8	0	20	160	0.5	10	50	270	610	1	175	0.01	1.53	0.31	1.45	0.45	0.25	0.02
TC-92-32-230	8	0	0.000	0.8	4	2	0	0	34	10	28	0	0	2	0.0	6	99	9	0	25	110	0.5	10	50	145	790	1	167	0.01	1.37	0.34	1.47	0.44	0.30	0.02
TC-92-32-235	14	0	0.000	0.4	10	4	1	0	30	10	30	0	0	2	0.0	5	78	9	0	27	420	1.0	10	50	195	780	2	287	0.01	2.01	1.40	1.48	0.53	0.38	0.02
TC-92-32-240	6	0	0.000	0.2	4	2	1	0	23	8	28	0	0	0	0.0	4	100	8	0	25	1030	0.5	10	40	220	720	1	248	0.01	1.29	1.49	1.39	0.42	0.33	0.02
TC-92-32-245	16	0	0.000	0.6	6	2	1	0	30	12	38	0	0	2	0.0	5	94	8	0	23	720	0.5	10	50	205	610	1	226	0.00	1.92	0.61	1.47	0.48	0.31	0.03

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-32

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-32-250	8	0	0.000	0.4	8	2	0	0	36	10	42	0	0	2	0.0	6	104	11	0	33	280	0.0	10	50	300	1030	2	298	0.02	1.78	1.98	1.85	0.54	0.48	0.02
TC-92-32-255	5	0	0.000	0.6	12	4	1	0	50	14	62	0	0	4	0.0	7	99	12	0	40	630	0.0	10	40	570	1280	3	385	0.05	2.40	4.69	2.22	0.78	0.60	0.03
TC-92-32-260	10	0	0.000	0.2	4	2	1	0	30	10	44	0	0	0	0.0	6	86	10	0	33	240	0.5	10	30	410	950	2	335	0.04	1.69	3.25	1.78	0.53	0.47	0.03
TC-92-32-265	10	0	0.000	0.6	10	2	2	0	39	12	46	0	0	0	0.0	6	84	10	0	29	340	0.5	20	50	260	840	2	297	0.02	2.54	1.53	1.75	0.64	0.46	0.03
TC-92-32-270	4	0	0.000	0.6	2	2	1	0	48	8	40	0	0	2	0.0	5	118	11	0	29	160	0.0	10	50	155	970	2	226	0.02	1.83	0.66	1.64	0.54	0.43	0.04
TC-92-32-275	7	0	0.000	0.6	20	0	0	0	22	10	36	1	0	0	0	5	154	8	0	28	280	0.0	10	40	200	640	1	151	0.02	1.46	1.03	1.80	0.48	0.27	0.02
TC-92-32-280	6	0	0.000	0.4	4	0	0	0	35	10	50	0	0	2	0.0	5	125	9	0	32	180	0.0	10	30	420	910	2	314	0.03	1.81	3.55	1.78	0.55	0.43	0.03
TC-92-32-285	9	0	0.000	0.6	2	0	0	0	30	8	38	1	0	4	0.0	5	144	9	0	30	310	0.0	10	40	220	820	2	222	0.02	2.03	1.23	1.67	0.58	0.37	0.04
TC-92-32-290	10	0	0.000	0.6	4	2	0	0	31	10	36	0	0	2	0.0	5	136	10	0	29	160	0.5	10	50	220	780	2	291	0.01	2.58	1.31	1.64	0.62	0.40	0.05
TC-92-32-295	5	0	0.000	0.6	2	2	0	0	28	10	38	0	0	2	0.0	6	120	10	0	28	160	0.5	10	50	150	800	2	224	0.02	2.17	0.54	1.63	0.60	0.42	0.03
TC-92-32-300	5	0	0.000	0.8	0	0	1	0	29	16	42	1	0	2	0.0	7	118	12	0	32	170	0.5	10	60	160	990	2	233	0.02	2.02	0.47	1.86	0.66	0.48	0.04
TC-92-32-305	9	0	0.000	0.8	0	0	0	0	34	14	50	1	0	2	0.0	6	146	12	0	32	300	1.5	20	60	245	940	2	241	0.02	2.06	0.96	1.98	0.65	0.45	0.04
TC-92-32-310	7	0	0.000	0.8	10	0	0	0	34	14	42	0	0	0	0.0	6	135	10	0	27	200	1.5	10	20	615	760	3	398	0.02	2.31	4.43	1.63	0.81	0.44	0.05
TC-92-32-315	10	0	0.000	0.6	8	0	0	0	38	8	40	1	0	2	0.0	4	138	9	0	27	170	1.0	10	40	310	840	2	330	0.01	1.95	2.39	1.52	0.59	0.36	0.05
TC-92-32-320	9	0	0.000	0.8	8	2	0	0	34	14	48	0	0	2	0.0	5	137	9	0	28	220	1.5	10	30	395	800	2	388	0.02	2.34	3.37	1.68	0.77	0.38	0.05
TC-92-32-325	5	0	0.000	0.8	12	2	0	0	33	14	48	0	0	2	0.0	6	135	10	0	25	380	2.5	20	50	290	730	2	276	0.01	2.27	1.54	1.86	0.68	0.37	0.04
TC-92-32-330	8	0	0.000	1.0	12	4	0	0	34	20	56	0	0	2	0	5	79	9	0	24	300	2.5	10	50	485	880	3	396	0.02	2.58	3.69	1.74	1.03	0.40	0.04
TC-92-32-335	11	0	0.000	0.8	2	0	0	0	27	20	34	0	0	0	0.0	2	40	3	0	9	270	2.5	10	40	350	420	2	403	0.00	2.06	2.68	0.97	0.77	0.19	0.05
TC-92-32-340	16	0	0.000	0.8	2	0	0	0	17	20	48	0	0	2	0.0	3	40	4	0	9	280	2.0	10	50	295	410	2	370	0.00	2.49	2.18	1.07	0.75	0.20	0.05
TC-92-32-345	12	0	0.000	1.0	20	4	1	0	31	18	50	0	0	2	0.0	5	118	9	0	23	380	2.5	20	50	340	740	2	335	0.00	2.57	1.99	1.84	0.75	0.35	0.05
TC-92-32-350	9	0	0.000	1.0	4	4	0	0	32	14	52	0	0	2	0.0	5	115	9	0	28	250	2.5	20	50	180	930	3	243	0.03	2.53	0.65	1.90	0.77	0.40	0.06
TC-92-32-355	10	0	0.000	0.6	6	0	0	0	22	10	38	0	0	2	0.0	5	144	8	0	26	180	1.5	10	50	140	810	2	201	0.02	1.70	0.39	1.67	0.47	0.34	0.06
TC-92-32-360	12	0	0.000	1.0	8	4	1	0	36	16	50	1	0	2	0.0	6	96	10	0	27	270	2.0	20	60	225	780	3	307	0.01	3.06	0.70	1.91	0.75	0.50	0.07
TC-92-32-365	18	0	0.000	0.6	4	2	0	0	36	14	48	1	0	4	0.0	5	86	8	0	20	340	2.0	10	50	285	700	2	312	0.00	1.88	1.47	1.66	0.57	0.32	0.05
TC-92-32-370	8	0	0.000	0.6	0	0	0	0	28	10	52	1	0	2	0.0	4	122	6	0	26	200	1.5	10	20	460	830	2	292	0.02	1.51	2.85	1.77	0.56	0.33	0.05
TC-92-32-375	10	0	0.000	0.6	6	2	0	0	48	14	52	0	0	2	0.0	4	128	8	0	24	260	2.0	10	50	350	870	2	318	0.02	1.64	2.25	1.72	0.67	0.38	0.05
TC-92-32-380	24	0	0.000	0.6	0	0	0	0	32	12	46	0	0	0	0.0	4	90	6	0	18	270	2.0	10	40	305	580	2	325	0.00	1.91	1.85	1.42	0.69	0.32	0.05
TC-92-32-385	14	0	0.000	0.8	14	2	0	0	28	16	56	0	0	2	0	4	116	7	0	19	420	2.0	10	50	340	620	2	294	0.01	2.11	1.81	1.76	0.72	0.31	0.04
TC-92-32-390	8	0	0.000	1.2	10	2	0	0	12	18	86	0	0	2	0.0	3	48	3	0	12	1100	2.5	10	50	465	540	3	329	0.01	2.36	3.09	1.58	1.07	0.18	0.05
TC-92-32-395	10	0	0.000	0.8	4	0	0	0	9	20	80	0	0	2	0.0	3	40	3	0	10	430	2.0	10	50	435	500	2	399	0.00	2.03	2.75	1.44	0.83	0.16	0.05
TC-92-32-400	14	0	0.000	1.0	4	2	0	0	7	14	40	0	0	2	0.0	4	70	7	0	14	420	2.0	20	50	310	380	2	397	0.00	2.75	1.61	1.51	0.92	0.30	0.06
TC-92-32-405	8	0	0.000	0.6	8	0	0	0	19	14	54	1	0	0	0.0	5	93	8	0	20	420	2.5	10	50	385	540	2	351	0.01	2.07	1.77	1.92	0.66	0.29	0.05
TC-92-32-410	7	0	0.000	0.6	12	4	0	0	10	10	66	0	0	0	0.0	6	93	10	0	29	350	2.0	20	40	585	560	4	510	0.01	2.85	2.56	2.40	0.66	0.39	0.08
TC-92-32-415	10	0	0.000	0.2	6	2	0	0	13	12	60	1	0	0	0.0	5	68	7	0	23	290	2.0	10	40	545	530	2	534	0.00	1.64	2.27	2.03	0.44	0.27	0.07
TC-92-32-420	14	0	0.000	0.4	10	4	0	0	38	16	62	0	0	2	0.0	4	60	6	0	22	340	2.5	10	40	510	590	3	512	0.00	1.92	2.08	2.36	0.62	0.25	0.08
TC-92-32-425	10	0	0.000	0.6	12	4	0	0	18	14	74	1	0	0	0.0	4	66	6	0	23	350	2.5	10	50	450	660	3	341	0.01	1.42	1.69	2.69	0.54	0.21	0.05
TC-92-32-430	4	0	0.000	0.6	14	8	0	0	9	18	282	3	0	2	0.0	10	60	5	0	118	270	5.0	20	50	685	1150	6	268	0.10	1.67	1.87	7.70	0.73	0.14	0.04
TC-92-32-435	7	0	0.000	0.4	18	6	2	0	8	18	216	2	0	4	0.0	9	45	5	0	61	270	5.0	10	40	1575	1210	6	329	0.02	1.97	3.93	5.25	0.60	0.13	0.03
TC-92-32-440	10	0	0.000	1.2	8	4	0	0	9	20	116	0	0	2	0.0	4	38	2	0	30	440	3.5	20	60	515	980	5	316	0.02	2.07	2.39	3.23	1.10	0.10	0.04
TC-92-32-445	10	0	0.000	0.8	16	4	0	0	17	18	72	1	0	0	0	4	71	6	0	22	400	3.0	10	50	460	650	3	323	0.01	1.85	2.10	2.20	0.78	0.17	0.04
TC-92-32-450	5	0	0.000	1.0	20	4	0	0	7	22	78	1	0	2	0	2	25	2	0	14	390	2.5	10	50	540	590	3	359	0.01	1.87	2.94	1.55	0.90	0.09	0.03
TC-92-32-455	5	0	0.000	0.8	14	2	0	0	10	30	104	0	0	0	0	2	28	2	0	10	390	3.5	10	70	545	710	3	387	0.01	1.66	3.45	1.75	0.86	0.09	0.03
TC-92-32-460	20	0	0.000	0.8	10	2	0	0	16	20	66	1	0	2	0	3	44	4	0	12	420	3.0	20	60	380	500	2	386	0.00	1.89	1.97	1.55	0.79	0.14	0.05
TC-92-32-465	8	0	0.000	0.8	18	2	0	0	31	22	56	1	0	2	0	4	78	8	0	15	370	1.5	20	60	250	540	2	309	0.00	1.88	1.12	1.68	0.61	0.22	0.04
TC-92-32-470	6	0	0.000	0.4	38	6	1	0	45	16	44	1	0	2	0.0	6	104	10	0	21	180	2.0	10	50	140	870	2	259	0.00	2.46	0.59	1.78	0.40	0.22	0.03
TC-92-32-475	8	20	0.001	0.4	48	4	0	0	42	16	44	2	0	2	0	5	99	8	0	19	180	1.5	10	40	130	810	1	229	0.00	2.02	0.63	1.69	0.36	0.17	0.02
TC-92-32-480	6	10	0.000	0.4	38	4	1	0	46	14	38	3	0	2	0.0	5	128	10	0	19	150	1.5	10	50	85	830	2	249	0.00	2.17	0.41	1.72	0.32	0.19	0.03
TC-92-32-485	10	0	0.000	0.6	28	4	1	0	37	16	56	2	0	4	0.0	5	132	8	0	20	300	1.5	10	50	215	720	2	267	0.00	2.27	0.97	1.87	0.56	0.24	0.03

CHALLENGER GOLD, INC. - TROUT CREEK PROJECT, NEVADA - DRILL ASSAYS-HOLE TC-92-32

Sample Number	lbs	Au ppb	Au opt	Ag ppm	As ppm	Sb ppm	Hg ppm	Tl ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	W ppm	Bi ppm	Cd ppm	Co ppm	Cr ppm	Ni ppm	U ppm	V ppm	Ba ppm	Be ppm	Ga ppm	La ppm	Mn ppm	P ppm	Sc ppm	Sr ppm	Ti ppm	Al %	Ca %	Fe %	K %	Mg %	Na %
TC-92-32-490	6	0	0.000	0.4	30	4	0	0	49	12	32	0	0	2	0.0	4	127	9	0	20	200	1.0	10	40	110	760	1	230	0.01	1.65	0.45	1.52	0.39	0.25	0.03
TC-92-32-495	6	0	0.000	0.4	8	2	0	0	45	12	32	1	0	4	0.0	4	114	9	0	30	240	1.5	10	50	150	760	2	254	0.01	1.64	0.78	1.77	0.50	0.29	0.03
TC-92-32-500	7	0	0.000	0.4	8	2	0	0	24	8	30	1	0	2	0.0	4	107	9	0	34	210	1.0	10	30	230	870	2	327	0.01	1.35	2.22	1.73	0.45	0.29	0.03
TC-92-32-505	10	0	0.000	0.6	14	2	0	0	23	12	44	1	0	2	0.0	4	104	8	0	27	250	1.0	10	50	205	660	2	236	0.01	1.53	0.89	1.72	0.48	0.25	0.03
TC-92-32-510	8	0	0.000	0.8	8	2	0	0	29	12	38	1	0	4	0.0	5	129	9	0	33	260	1.5	10	40	210	800	2	283	0.01	1.73	1.52	1.83	0.55	0.28	0.03
TC-92-32-515	8	0	0.000	0.8	6	2	0	0	40	12	34	1	0	4	0.0	5	125	9	0	33	280	1.5	10	30	210	730	2	373	0.01	2.22	2.28	1.70	0.69	0.33	0.04
TC-92-32-520	6	0	0.000	0.6	8	2	1	0	39	10	28	1	0	2	0.0	4	182	9	0	37	220	1.0	10	40	150	760	2	249	0.01	1.84	1.09	1.66	0.52	0.29	0.04
TC-92-32-525	10	0	0.000	0.8	12	2	0	0	23	10	42	1	0	2	0.0	4	134	8	0	28	240	1.0	10	40	200	650	2	256	0.01	1.96	1.30	1.65	0.58	0.27	0.04
TC-92-32-530	8	0	0.000	0.8	8	0	0	0	15	8	28	0	0	2	0	4	156	8	0	27	200	0.5	10	40	130	690	2	202	0.01	1.65	0.75	1.49	0.50	0.26	0.05
TC-92-32-535	8	0	0.000	0.8	8	0	0	0	18	12	34	0	0	2	0.0	5	130	7	0	28	270	1.5	10	40	210	660	2	319	0.01	2.38	1.83	1.59	0.67	0.31	0.06
TC-92-32-540	9	0	0.000	0.6	4	0	0	0	22	12	34	0	0	4	0.0	5	96	8	0	29	280	1.5	10	40	190	660	2	352	0.01	1.69	1.90	1.58	0.61	0.35	0.05
TC-92-32-545	8	0	0.000	0.8	10	0	0	0	27	12	48	1	0	2	0.0	5	96	8	0	29	260	1.5	10	40	195	710	2	300	0.01	1.74	1.54	1.69	0.59	0.30	0.05
TC-92-32-550	8	0	0.000	0.6	4	0	1	0	20	10	34	1	0	2	0.0	4	122	8	0	32	220	1.0	10	30	220	770	2	252	0.01	1.47	1.84	1.67	0.51	0.28	0.04
TC-92-32-555	7	0	0.000	0.8	4	2	0	0	45	8	40	0	0	2	0.0	5	127	10	0	32	290	2.0	10	40	225	710	2	334	0.01	2.00	2.15	1.75	0.68	0.33	0.06
TC-92-32-560	5	0	0.000	0.6	6	0	0	0	23	8	36	0	0	0	0.0	4	131	9	0	33	230	1.0	10	40	170	660	2	292	0.01	1.74	1.27	1.62	0.53	0.33	0.06
TC-92-32-565	6	0	0.000	0.6	4	0	0	0	18	8	38	1	0	0	0.0	4	119	8	0	31	220	1.0	10	40	170	640	1	203	0.02	1.40	0.97	1.65	0.50	0.28	0.05
TC-92-32-570	4	0	0.000	0.6	4	2	0	0	13	8	30	1	0	0	0.0	4	134	8	0	29	180	0.5	10	40	135	600	1	174	0.02	1.18	0.69	1.49	0.44	0.27	0.05
TC-92-32-575	9	0	0.000	0.6	2	0	0	0	24	10	36	0	0	2	0.0	4	157	8	0	32	230	1.5	10	40	210	630	2	300	0.01	1.45	1.41	1.60	0.51	0.33	0.06
TC-92-32-580	7	0	0.000	0.6	4	0	0	0	36	10	36	1	0	6	0.0	4	116	7	0	31	230	1.0	10	30	245	570	2	278	0.01	1.60	1.93	1.54	0.57	0.31	0.08
TC-92-32-585	8	0	0.000	0.4	4	0	0	0	16	8	54	1	0	2	0.0	3	105	7	0	28	180	0.5	0	20	255	570	1	275	0.01	1.03	2.18	1.50	0.39	0.26	0.05
TC-92-32-590	10	0	0.000	0.6	6	2	0	0	17	8	56	0	0	2	0	5	103	9	0	28	270	1.5	10	40	180	580	2	384	0.00	1.78	1.49	1.54	0.56	0.38	0.07
TC-92-32-595	14	0	0.000	0.4	0	0	0	0	24	6	46	0	0	0	0	4	116	8	0	26	240	1.0	0	20	255	590	2	392	0.01	1.55	2.78	1.50	0.51	0.36	0.06
TC-92-32-600	9	0	0.000	0.8	8	2	0	0	51	10	54	0	0	2	0	5	104	9	0	31	310	2.0	10	40	200	720	3	393	0.01	2.37	1.97	1.77	0.75	0.43	0.07
# Samples	120																																	
Maximum	24	70	0.002	1.2	136	12	2	0	51	34	282	5	20	6	1	17	182	34	0	118	1100	5.0	20	100	1575	1280	6	534	0.10	3.44	4.69	7.70	1.10	0.60	0
Minimum	1	0	0.000	0.2	0	0	0	0	6	6	28	0	0	0	0	1	6	0	0	1	20	0.0	0	10	25	30	0	29	0.00	0.45	0.06	0.45	0.04	0.01	0
Average	8	6	0.000	0.7	29	3	0	0	24	16	54	1	2	1	0	5	84	7	0	21	277	1.6	13	50	256	574	2	232	0.01	1.98	1.31	1.76	0.57	0.29	0
Std Dev	4	14	0.000	0.2	34	2	0	0	11	7	31	1	5	1	0	2	43	4	0	14	175	1.1	5	16	200	281	1	121	0.01	0.55	1.03	0.83	0.20	0.14	0

APPENDIX C

1992 Drill Logs

CHALLENGER GOLD, INC.

DRILL LOG

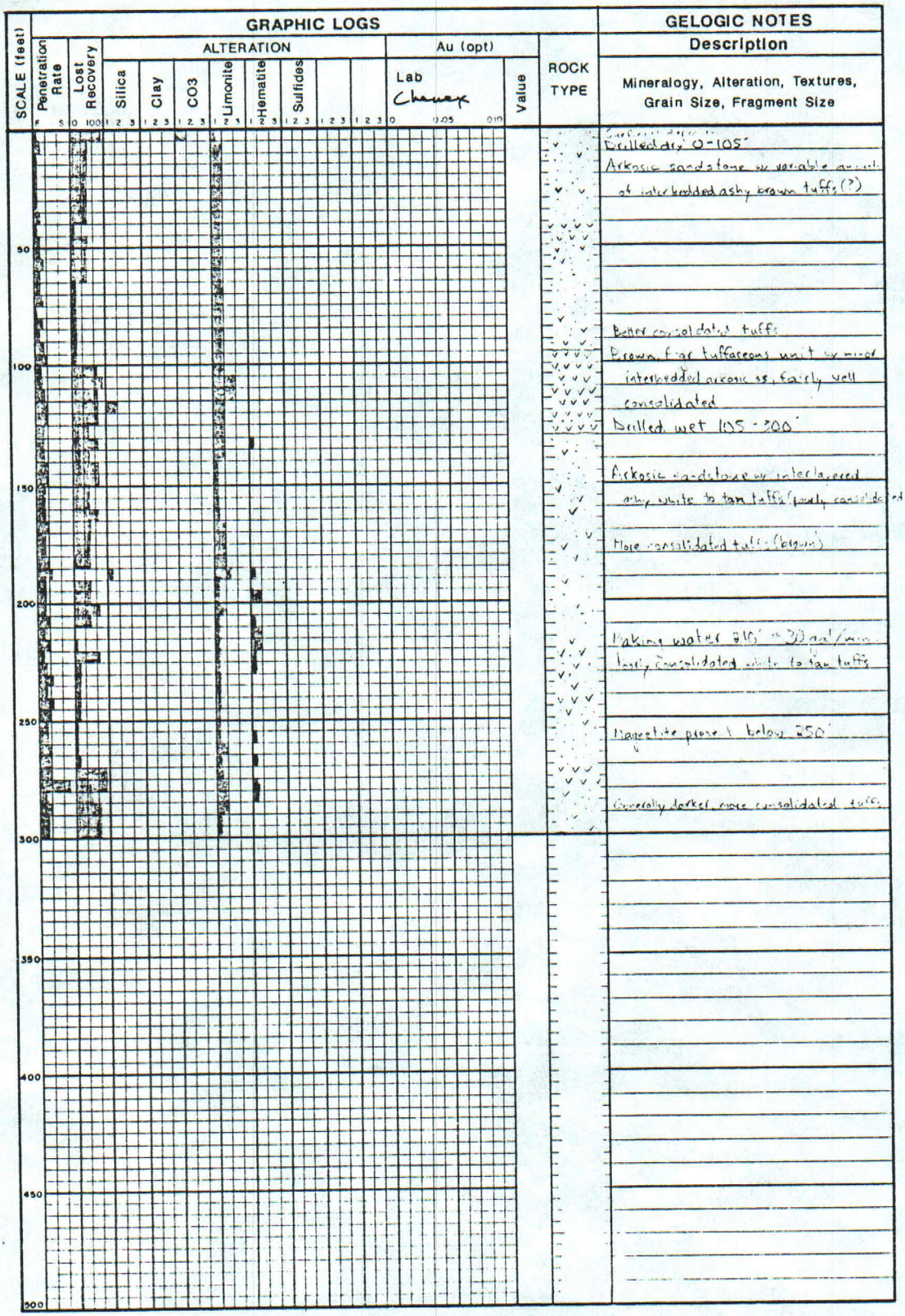
Project Trout Creek State Nevada County Elko Hole # TC-92-26

Location Opalino Spring Coordinates 10,405 N 3,500 E Elevation 5760'

Total Depth 300' Bearing — Inclination vertical

Type Drilling RC DHH Hole Size 5 1/2 Start 5-5-92 Complete 5-5-92

Drilled by Elsing Logged by JLP Date 5-8-92



Drilled dry 0-105'

Arkosic sandstone w variable amount of interbedded ashy brown tuffs (?)

Softer consolidated tuffs

Brown, fine tuffaceous unit w minor interbedded arkosic ss, fairly well consolidated

Drilled wet 105-300'

Arkosic sandstone w interlayered ashy white to tan tuffs (poorly consolidated)

More consolidated tuffs (below)

Making water 210' = 30 gal/min

Fairly consolidated white to tan tuffs

Magnetite present below 250'

Generally darker, more consolidated tuffs

CHALLENGER GOLD, INC.

DRILL LOG

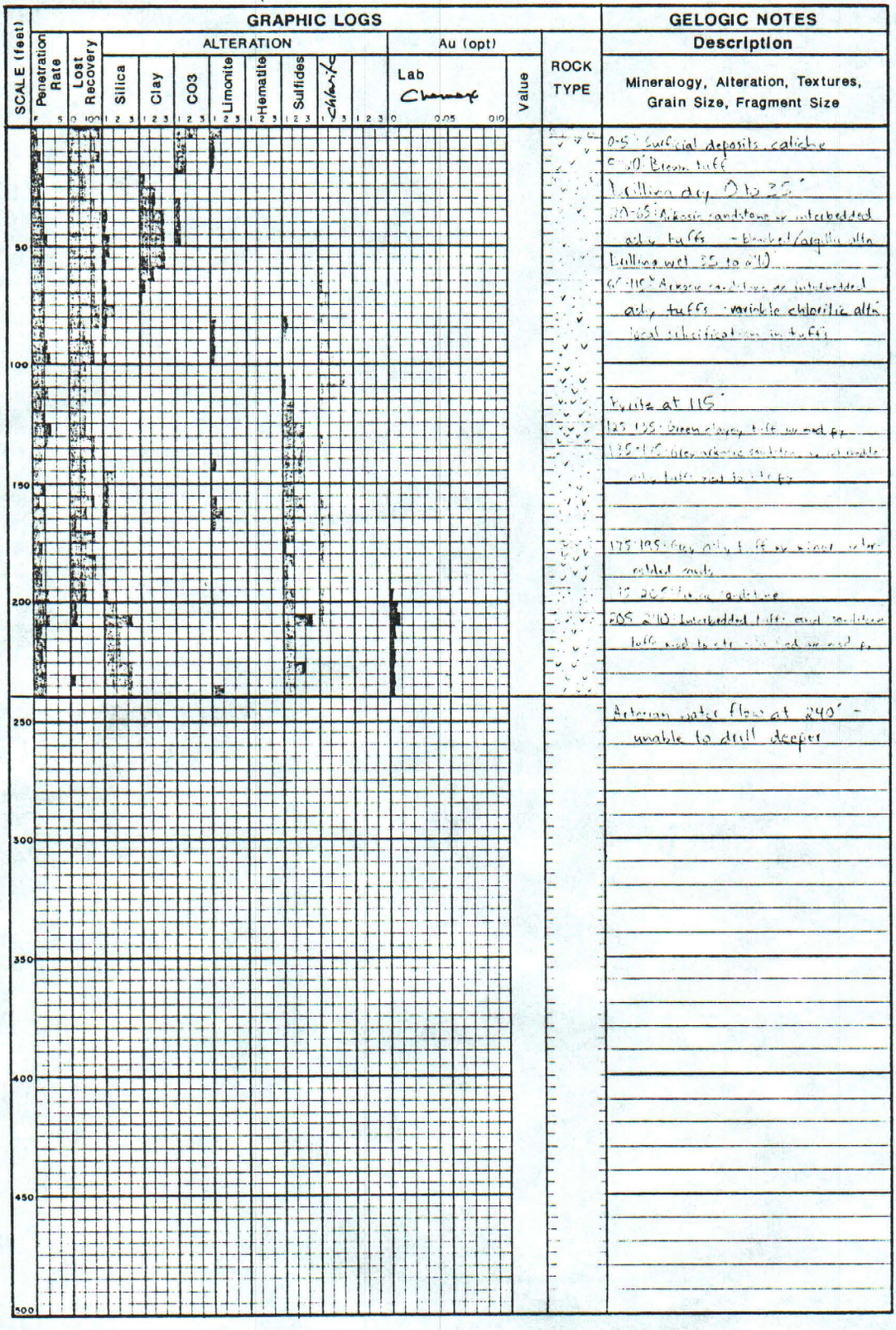
Project Trout Creek | State Nevada | County Elko | Hole # TC-92-27

Location Opaline Spring | Coordinates 10,800 N 2,760 E | Elevation 5,750

Total Depth 240' | Bearing N90E | Inclination -45

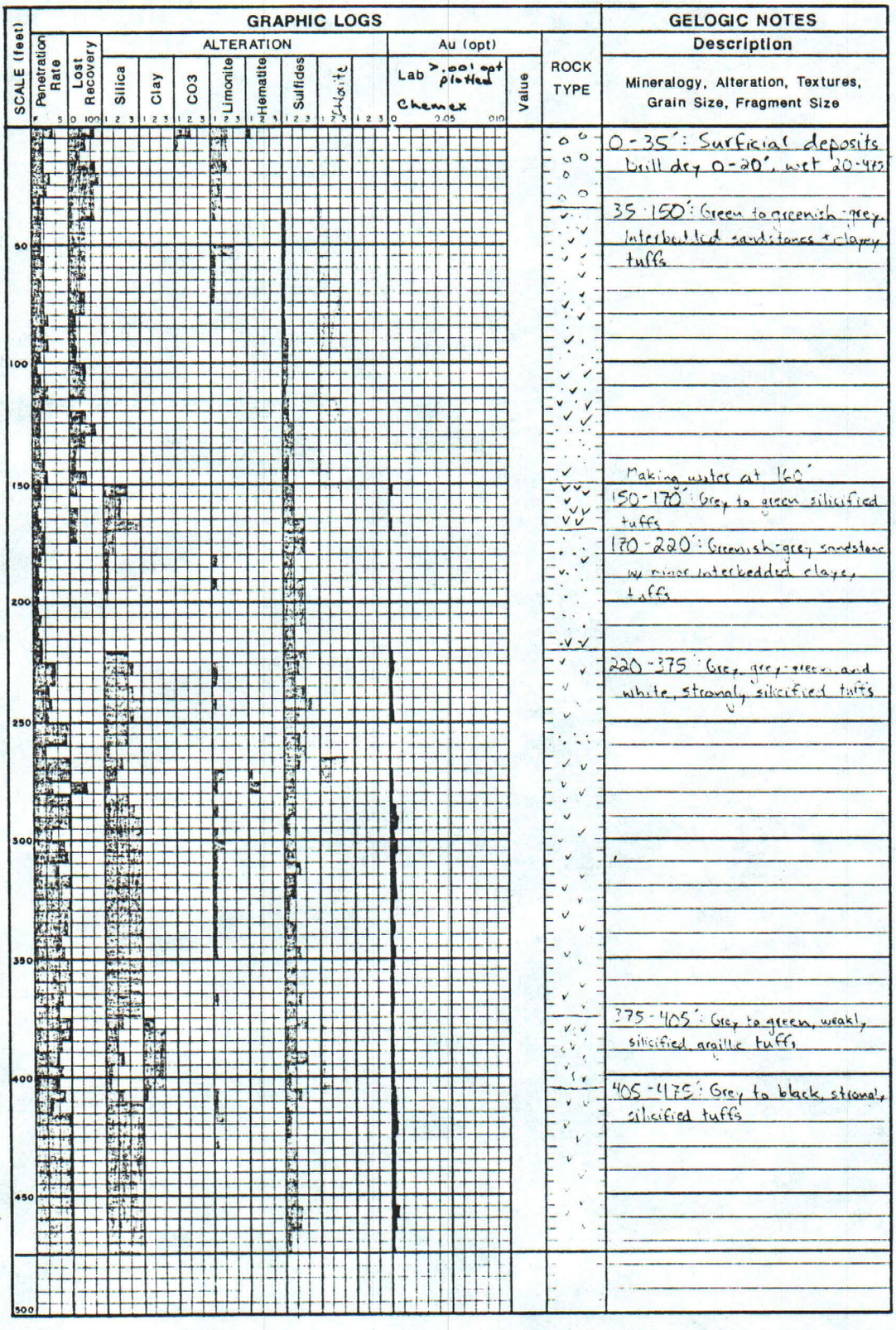
Type Drilling RC DTH | Hole Size 5 ½" | Start 5-5-92 | Complete 5-6-92

Drilled by Elsing Drilling | Logged by JLP | Date 5-8-92



CHALLENGER GOLD, INC.
DRILL LOG

Project Trout Creek | State Nevada | County Elko | Hole # TC-92-28
Location Opaline Spring | Coordinates 11,170' N 2030' W | Elevation 5800'
Total Depth 475' | Bearing -45° | Inclination -45° E
Type Drilling RC DHH, Tricone | Hole Size 5 1/2" | Start 5-9-92 | Complete 5-12-92
Drilled by Elsing | Logged by JLP | Date 6-15-92



GELOGIC NOTES
Description

Mineralogy, Alteration, Textures, Grain Size, Fragment Size

0-35': Surficial deposits
Drill dry 0-20', wet 20-475

35-150': Green to greenish-grey, interbedded sandstones + clayey tuffs

Making water at 160'

150-170': Grey to green silicified tuffs

170-220': Greenish-grey sandstone w minor interbedded clayey tuffs

220-375': Grey, grey-green and white, stronaly silicified tuffs

375-405': Grey to green, weakly silicified argille tuffs

405-475': Grey to black, strongly silicified tuffs

CHALLENGER GOLD, INC.

DRILL LOG

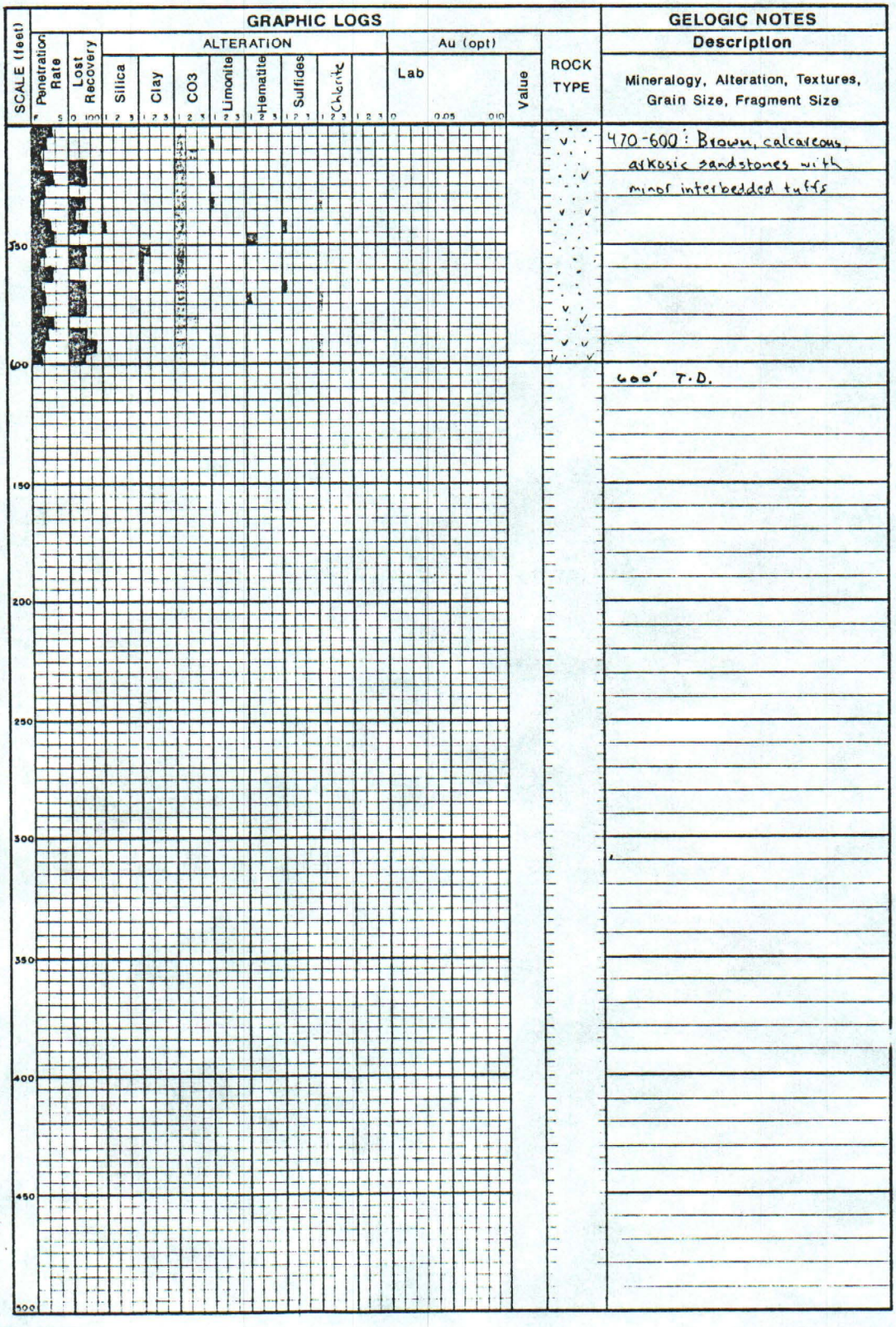
Project _____ State _____ County _____ Hole # Tc-92-32

Location _____ Coordinates _____ N _____ E Elevation _____

Total Depth _____ Bearing _____ Inclination _____

Type Drilling _____ Hole Size _____ Start _____ Complete _____

Drilled by _____ Logged by _____ Date _____



CHALLENGER GOLD, INC.

DRILL LOG

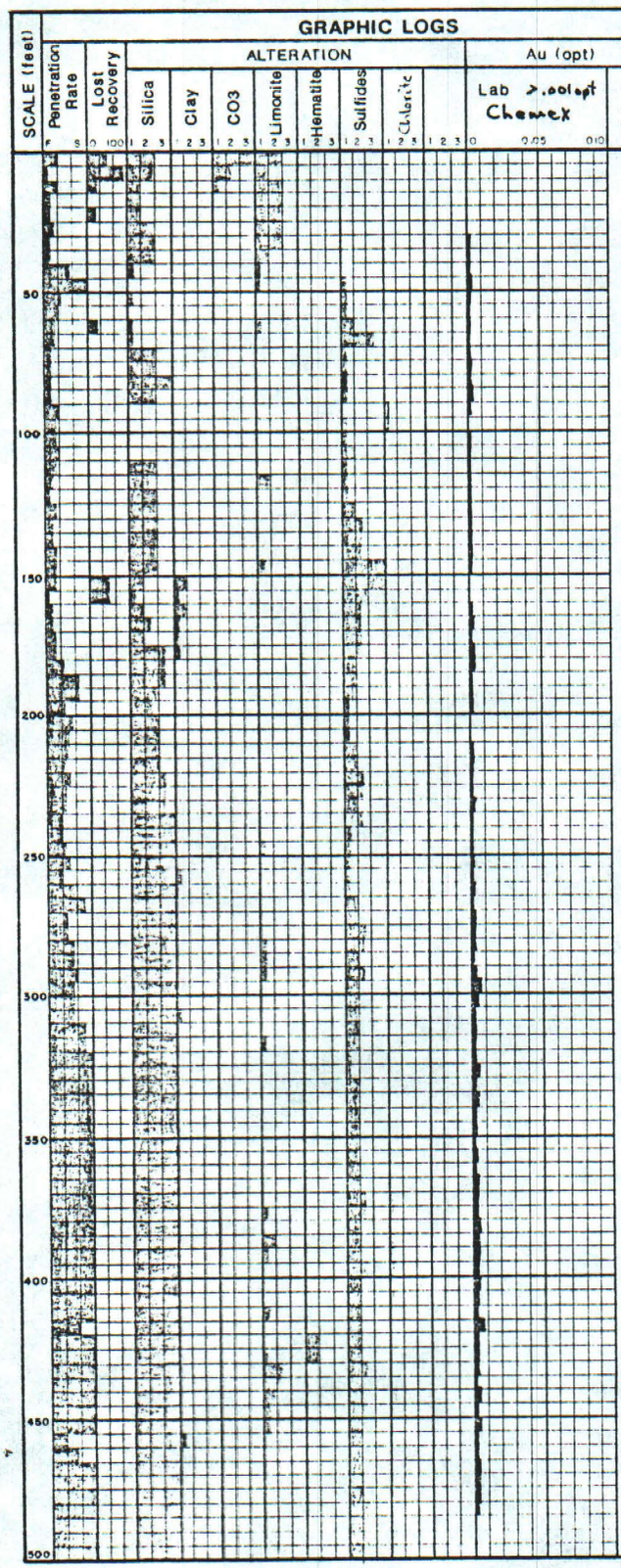
Project Trout Creek State Nevada County Elko Hole # TC-92-29

Location Opaline Spring Coordinates 10,790' N 2045' W Elevation 5800'

Total Depth 550' Bearing - Inclination Vertical

Type Drilling RC DHH, Tricone Hole Size 5½" Start 5-12-92 Complete 5-14-92

Drilled by Elsing Logged by JLP Date 6-15-92



GELOGIC NOTES

Description

Mineralogy, Alteration, Textures, Grain Size, Fragment Size

0-40': Yellow brown, oxidized, moderately silicified surficial deposits

Drill dry 0-55', wet 55-550'

40-70': Grey to greenish-grey, interbedded sandstones and clayey tuffs

70-90': Grey to bluish-grey, moderately silicified tuffs

90-110': Green interbedded sandstones and clayey tuffs

110-175': Green to grey, moderately silicified, interbedded sandstones and tuffs

Making water @ 120'

Weak argillic alteration

175-500': Grey, brown, white and bluish-grey, strongly silicified tuffs and sandstones

Tricone bit - 386'

White qtz vein (1')

White quartz veins (2')

CHALLENGER GOLD, INC.

DRILL LOG

Project Trout Creek State Nevada County Elko Hole # TC-92-29

Location Opaline Spring Coordinates 10,790' N 2045' W E Elevation 5800'

Total Depth 550' Bearing — Inclination Vertical

Type Drilling RC DHH, Tricone Hole Size 5½" Start 5-12-92 Complete 5-14-92

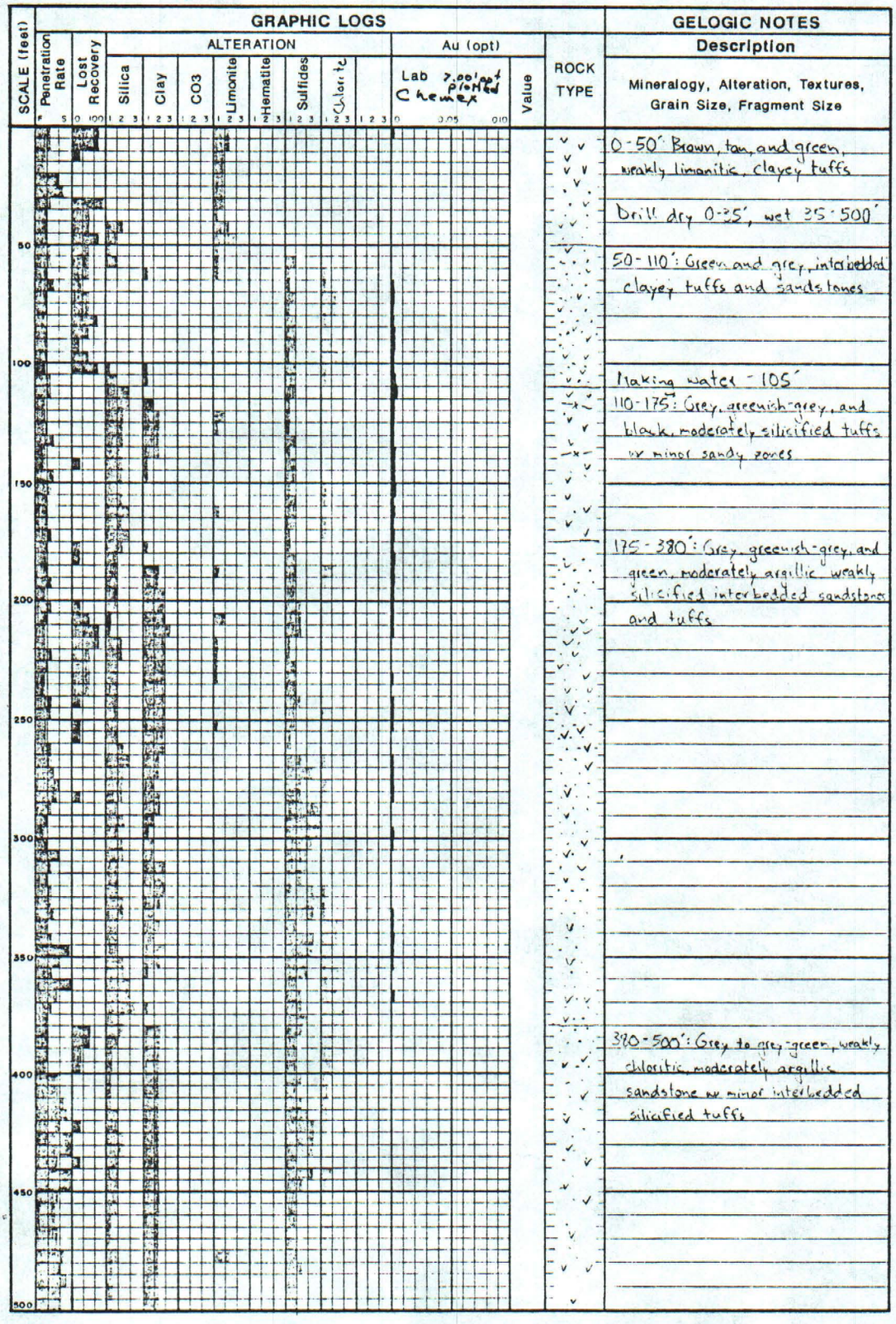
Drilled by Elsing Logged by JLP Date 6-15-92

SCALE (feet)	GRAPHIC LOGS: Penetration Rate (F–S)	Lost Recovery (0–100)	ALTERATION: Silica (1 2 3)	Clay (1 2 3)	CO3 (1 2 3)	Limonite (1 2 3)	Hematite (1 2 3)	Sulfides (1 2 3)	Chlorite (1 2 3)	(1 2 3)	Au (opt) Lab (0 0.05 0.10)	Au (opt) Value	ROCK TYPE	GELOGIC NOTES: Description — Mineralogy, Alteration, Textures, Grain Size, Fragment Size
50														500-550': Light green, steeply silicified, weakly argillic, chloritic tuffs
100														white qtz vein (1")
150														
200														
250														
300														
350														
400														
450														
500														

CHALLENGER GOLD, INC.

DRILL LOG

Project Trout Creek State Nevada County Elko Hole # TC-92-30
Location South Opaline Spring Coordinates 9100' N 2215' W E Elevation 5850'
Total Depth 500' Bearing - Inclination Vertical
Type Drilling RC DHH Hole Size 5½" Start 5-19-92 Complete 5-20-92
Drilled by Elsing Logged by JLP Date 6-16-92



GELOGIC NOTES

Description

Mineralogy, Alteration, Textures, Grain Size, Fragment Size

0-50': Brown, tan, and green, weakly limonitic, clayey tuffs

Drill dry 0-35', wet 35-500'

50-110': Green and grey, interbedded clayey tuffs and sandstones

Making water - 105'

110-175': Grey, greenish-grey, and black, moderately silicified tuffs w minor sandy zones

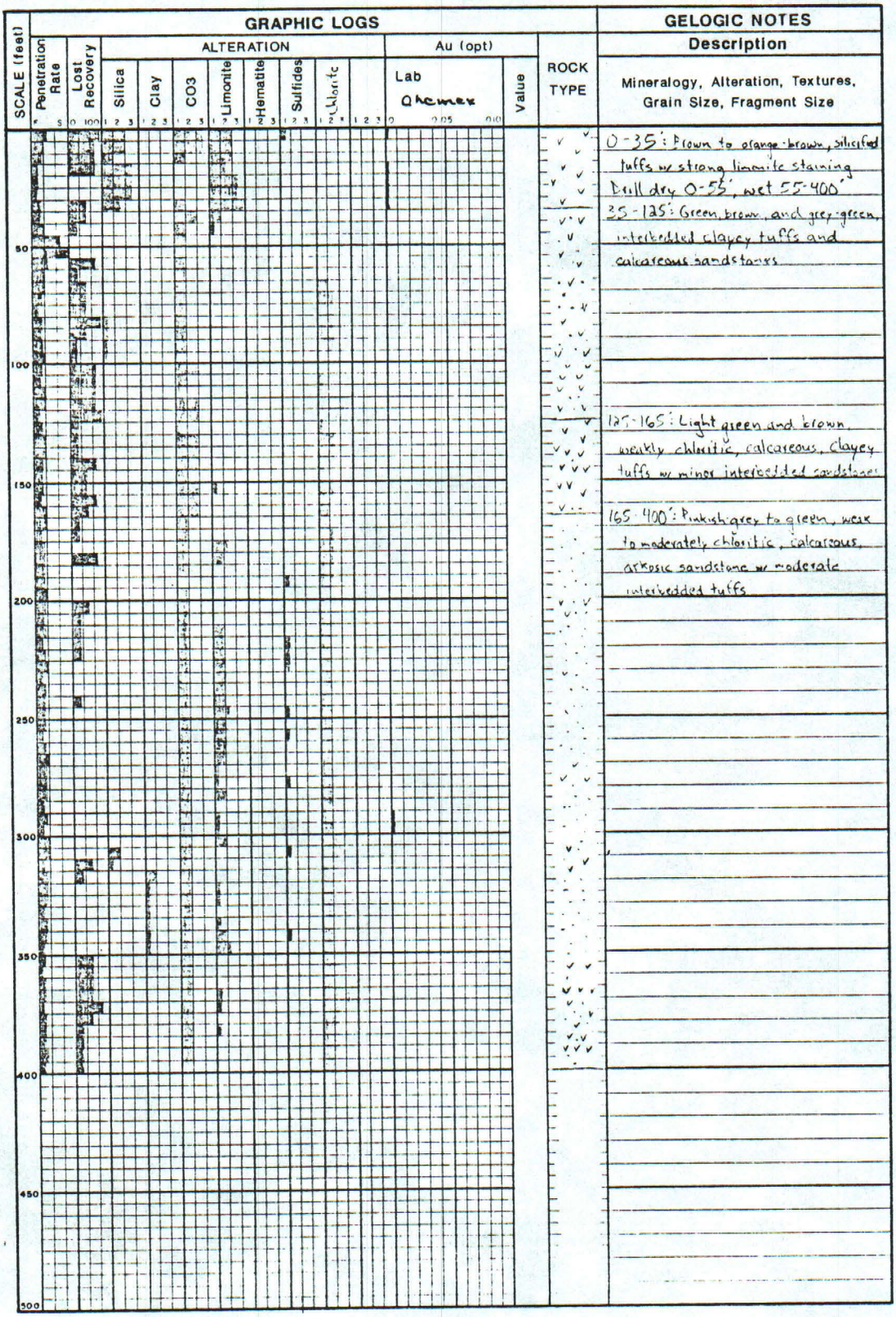
175-380': Grey, greenish-grey, and green, moderately argillic weakly silicified interbedded sandstone and tuffs

380-500': Grey to grey-green, weakly chloritic, moderately argillic sandstone w minor interbedded silicified tuffs

CHALLENGER GOLD, INC.

DRILL LOG

Project Trout Creek State Nevada County Elko Hole # TC-92-31
Location Bald Knob Coordinates 3810' N (300)' E Elevation 5850'
Total Depth 400' Bearing S35E Inclination -45°
Type Drilling RC DHH Hole Size 5½" Start 5-20-92 Complete 5-21-92
Drilled by Elsing Logged by JLP Date 6-16-92



0-35': Brown to orange-brown, silicified tuffs w/ strong limonite staining
Drill dry 0-55', wet 55-400'
35-125': Green, brown, and grey-green, interbedded clayey tuffs and calcareous sandstones
125-165': Light green and brown, weakly chloritic, calcareous, clayey tuffs w/ minor interbedded sandstones
165-400': Pinkish-grey to green, weak to moderately chloritic, calcareous, arkosic sandstone w/ moderate interbedded tuffs

CHALLENGER GOLD, INC.
DRILL LOG

Project Trout Creek State Nevada County Elko Hole # TC-92-32
Location SW Pediment Coordinates 2,645 N 3,000 W E Elevation 5740
Total Depth 600 Bearing S 45 E Inclination -45
Type Drilling RC DHH Hole Size 5½" Start 5-21-92 Complete 5-23-92
Drilled by Elsing Logged by JLP Date 6-17-92

GRAPHIC LOGS

SCALE (feet): 50, 100, 150, 200, 250, 300, 350, 400, 450, 500

Penetration Rate (min/ft): 0 – 100
Lost Recovery (%): 0 – 100

ALTERATION (1 2 3)
- Silica
- Clay
- CO3
- Limonite
- Hematite
- Sulfides
- Chlorite
- (unlabeled)

Au (opt)
- Lab: Chemex
- Value: 0 – .005 – .010

ROCK TYPE

GELOGIC NOTES

Description

Mineralogy, Alteration, Textures, Grain Size, Fragment Size

0-65': Brown and tan, calcareous, clayey tuffs with minor sandstone interbeds
Drill dry 0-80', wet 80-600'

65-145': Light green to green, weakly to moderately chloritic tuffs with minor interbedded sandstones
Making water @ 80'

145-180': Grey and green, moderately to strongly silicified tuffs

180-220': Light green to green, moderately chloritic tuffs with minor interbedded sandstones

220-325': Grey to greenish-grey, weakly chloritic, calcareous sandstones w/ minor interbedded tuffs

325-470': Green, greenish-grey, and brown, calcareous, chloritic tuffs and arkosic sandstones

470-600': Brown, calcareous, arkosic sandstones with minor interbedded tuffs

R 65 E
R 66 E

T 45 N

T 44 N

EXPLANATION

MS 37 PATENTED CLAIM BOSTON LODE
B.T. Hanks
523 NW 4th Pendleton OR 97801

Salmon River Cattlemans Assn.
P.O. Box 1278 Twin Falls, Idaho 83301

Copper Hill & North View Claims
Kirk & James Baker
Box 93
Jack Pot NV 89825

TJ, Shelley & Shelley Millsite Claims
Michael & Kathi J. Knight
Route 1
Filer ID 83328

Opus Claims
Great Lakes Exploration Inc.
4020 McCullock St.
Duluth MN 55804

Scale: 1"=2000'
0 2000 4000 6000 FEET

CHALLENGER GOLD, INC.

TROUT CREEK PROJECT
Elko County, Nevada

CLAIM MAP

SURFACE AND MINERAL OWNERSHIP

DATE	SCALE	MAP BY	
March 1991	1"=2000'		PLATE 1

00500125

Elko County General
Item 125

R 65 E

OPALINE SPRING AREA

SOUTH SILICIFIED ZONE

SOUTHWEST PEDIMENT

CLAIM BOUNDARY

T 45 N

BLM

Th

Tho

Tha

Jg

Qa

Tan Silty Ash

Altered Opal-SiO2-Clay

Brown Ashy Siltstone

Conglomerate Arkose

Arkose

Tan Ashy Clay Siltstone

White Volcanic Ash

White Ash

Fence Line

Lt Grey Ash

Lt Green-Gray White Ash

Lt Green White Ash

Volcanic Ash

Fluorite

Quartz after calcite

Q/C Float

CORNER KNOB

BOLO KNOB

PROSPECT KNOB

RED KNOB

SEE REID (1990) PLATE 3 FOR ADDITIONAL DETAIL

SYMBOLS

- Drill Hole – vertical
- Drill Hole – inclined
- Faults
- Roads
- Alteration Boundary
- Strike & Dip of Beds
- Strike & Dip of Joints
- Outcrop Area
- Boulder Conglomerate Units in Humboldt Fm
- Proposed Hole

ROCK TYPES

- Qa – Quaternary–Silt and sand along modern drainage
- Th – Miocene Humboldt Formation– Conglomerates, arkoses, volcaniclastics & ashy tuffs
  - Th – Unaltered
  - Tho – Opaline Silica Alteration
  - Tha – SiO2–clay–FeS2 Alteration
- Jg – Jurassic Contact Pluton, Massive, coarse–grained, granodiorite

0 200 400 600 800 FEET

CHALLENGER GOLD, INC.

TROUT CREEK
Elko County, Nevada

GEOLOGY

DATE	SCALE	MAP BY	PLATE
9-1992	1"=400'	FWL	PLATE 2

00500125A

Elko County General Item 126

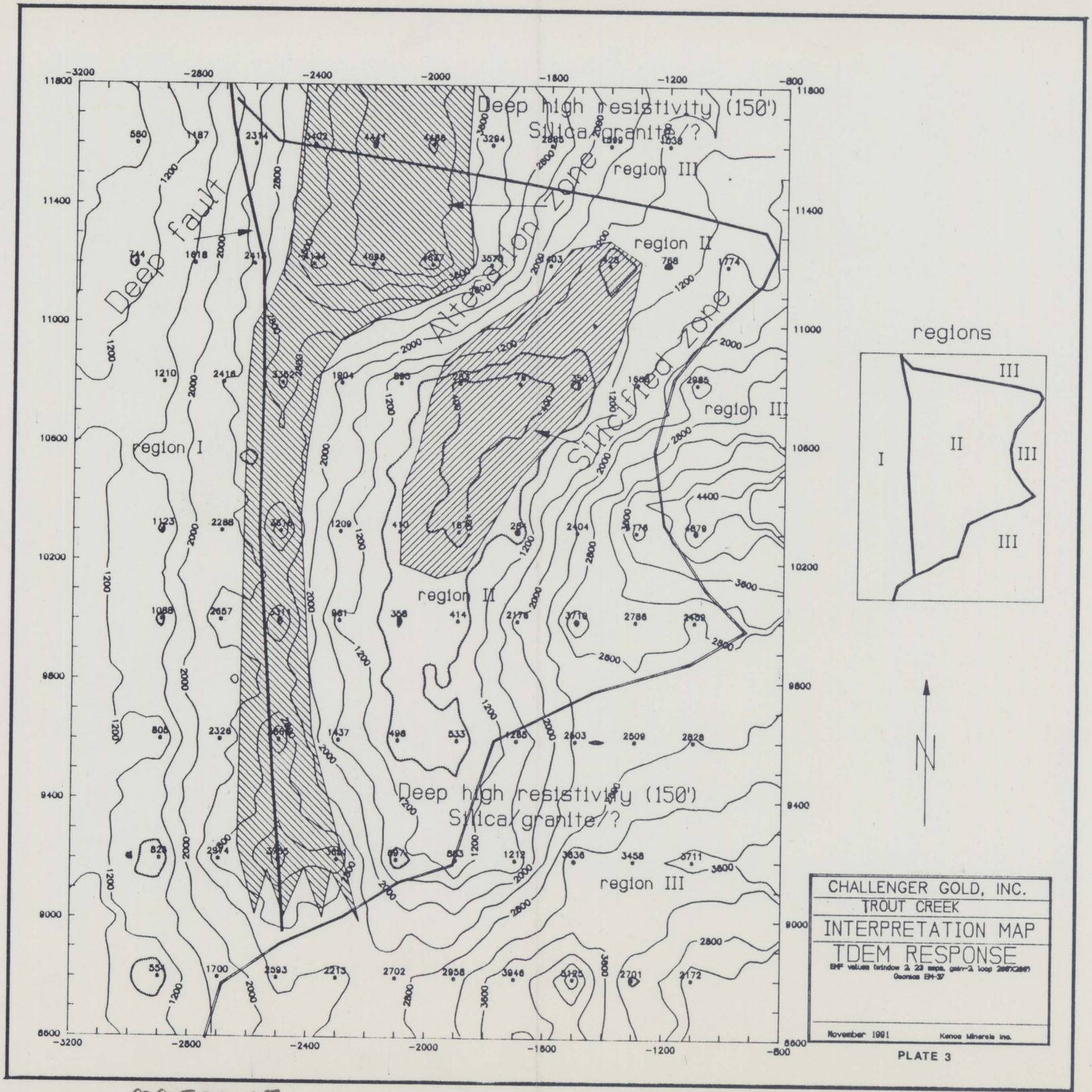


PLATE 3

00500125

Elko County General

Item 125

Sect. 1E

Gap 200'

Gap 300'

PLATE H

Beacon Flat Formation

Sect. 2E-3E

Buckskin Mountain Formation

Buckskin Mountain Formation

Sect. 1W

Sect. 3W

Beacon Flat Formation

PLATE F

Buckskin Mountain Formation

Plate G' Fbroaded line

Formation

PLATE G

Sect. 2W

Sect. 4W

Conglomerate

Buckskin Mountain Formation

Lens

Sect. 5W

PLATE A

Permian

Penn.

Ordovician

Leonard

Wolfcamp

Miss.-Virgil

Middle & Upper?

C

C

C

Formation

(Basal Conglomerate)

Valmy Group

Silurian

Formation

G Noh Formation

Wilkins Limestone

G Valmy Group

Virgil

Strathearn Formation

Wilkins Ls.

Valmy Group

Strathearn Formation

(Basal Conglomerate)

Permian

Penn.

Diamond Peak Formation

Agort Chert

Ordovician

Mississippian

Legend

Vertical scale

1300'
1200'
1100'
1000'
900'
800'
700'
600'
500'
400'
300'
200'
100'
50'
0

- Dolomitic limestone
- Limestone, thick-to thin-bedded
- Sandy, quartzitic limestone
- Calcareous siltstone
- Siltstone
- Shale and siliceous shale
- Quartzite
- Limestone and quartzite conglomerates
- Chert conglomerate
- Bedded chert
- C Coral bed
- G Graptolites

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Advance Sheet
Subject to correction
To be published at 1:24 000 scale

KNOLL MOUNTAIN, NEV.
ELKO CO.
760 000
FEET

114°45' 688000m.E. 42'30" 40' 114°37'30"

41°37'30"

4610000m.N.

2 500 000
FEET

35'

T.43 N.
T.42 N.

32'30"

2 460 000
FEET

41°30'

114°45' 730 000
FEET

42'30" 40' 45 97000m.N. 41°30'

6 97000m.E. 114°37'30"

R.64 E.
R.65 E.

Prospect

KNOLL
MOUNTAIN

Tiser Spring

Silkworm
Mine

Spring

Tumbling T Spring

Spring

Springs

Spring

Spring

Water Tank

Spring

Coyote Holes Spr

Bloody Gulch

Bloody Gulch

Eagle Flat

Nall
Well

Mapped by Pacific Region, Geological Survey

This is an unedited copy of an original manuscript including field additions made in 1968

BOUNDARY AND SECTION CORNER DATA CODE

MONUMENT FOUND

1. Iron pipe, BLM (GLO) cap.
2. Iron pipe, other official cap.
3. Private LS pipe & cap or comparable mon.
4. Notched rock.
5. Wood post, scribed.
6. Bearing tree, authentic, BLM notes used.
7. Fence corner.
8. Centerline X-road or T-road or road & fence.
9. Wood stake, charred or defaced.
10. Iron pipe not marked.
11. Cairn or mound of rock.

Marks 1 to 6 carry scribed square,
Marks 7 to 11 carry scribed circle only when verified.

METHOD OF LOCATION

A. Plotted from geodetic or plane coordinates obtained by 3rd order or better survey methods.
L. Stadia from image point located by Photogrammetry.
B. Stadia from precise map detail.
C. PT intersection.
D. PT three point.
E. PT resection.
H. Identified on photos & plotted by Photogrammetry.
K. Projected using reliable plat data.
M. Coordinates obtained and plotted from computations using plat values.
SFNF - Searched for not found.

SCALE 1:24000
0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

00500125

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
1°32' 27 MILS
17½° 311 MILS

KNOLL MOUNTAIN, NEV.
ELKO CO.

Contact 4 SW, Nev.
Henry Project

Sn - Noh Fm.
Ot - Tiser Lst.
Ow - Willkins lst.
Pbf = Bearcub Flat
Pw = Wineru p

Sect. 1E

Gap 62 m

Gap 93 m

Primrose Draw Plate

Permian

Leonard

Wolfcamp

Ordovician

Penn.

Miss.-Virgil

Middle & Upper?

Beacon Flat Formation

Buckskin Mountain Formation

Sect. 2E-3E

Buckskin Mountain Formation

Nall Well Plate

Sect. 2W

Sect. 1W

Winecup Formation

(Basal conglomerate)

Valmy Group

Silurian

G Noh Formation

Wilkins Limestone

G Valmy Group (Undiff.)

Virgil

Wilkins Ls.

Valmy Group

Sect. 3W

Eagle Flat Plate

Beacon Flat Formation

Buckskin Mountain Formation

Conglomerate Lens

Sect. 4W

Strathearn Formation

(Basal conglomerate)

Strathearn Formation

Sect. 5W

Buckskin Mountain Formation

Permian

Penn.

Diamond Peak Formation

Agort Chert

Mississippian

Ordovician

Vertical Scale

400 m 1300'
1200'
1100'
300 m 1000'
900'
800'
200 m 700'
600'
500'
100 m 400'
300'
50 m 200'
100'
50'
0 0

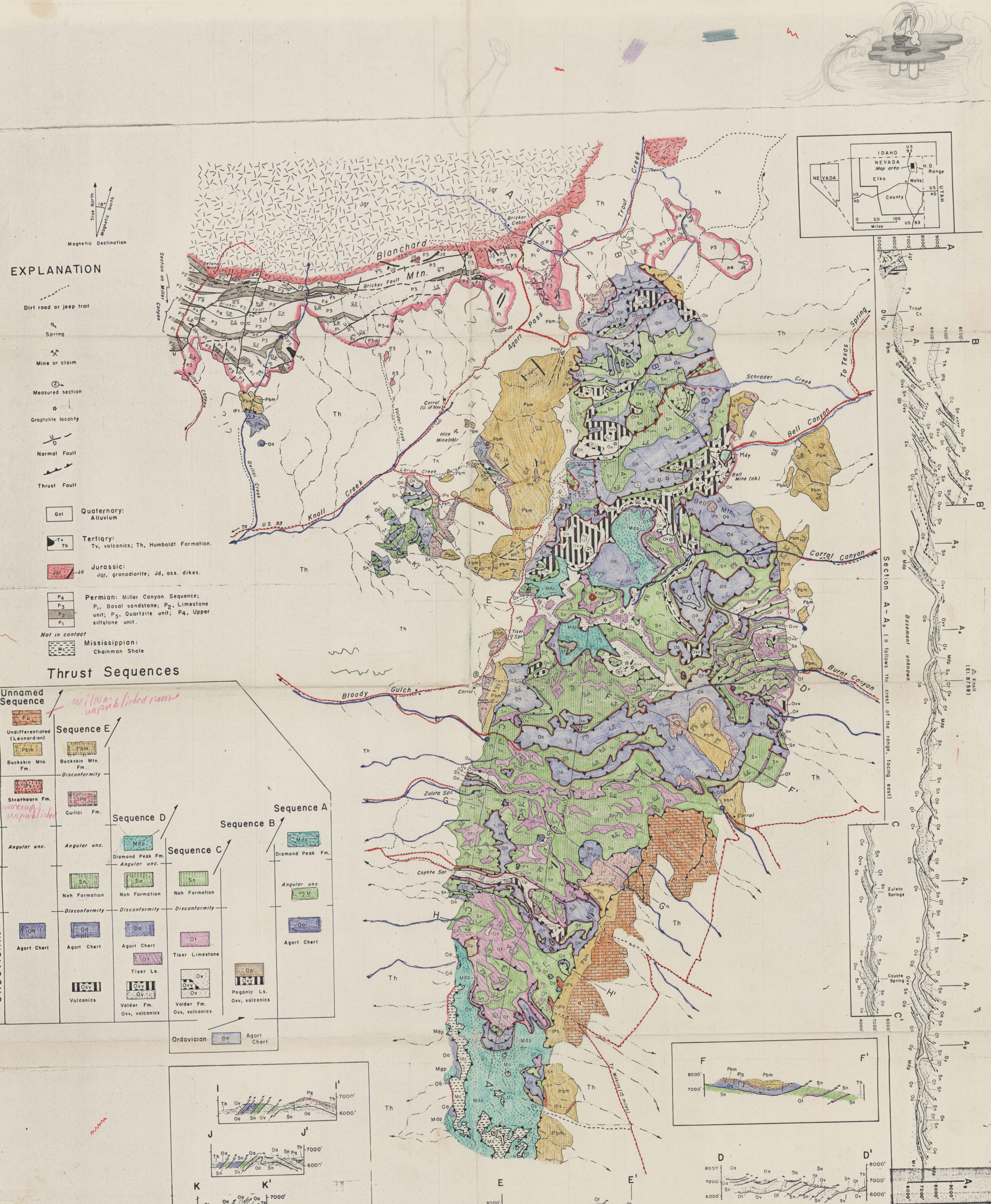
Legend

- Dolomitic limestone
- Limestone, thick-to thin-bedded
- Sandy, quartzitic limestone
- Calcareous siltstone
- Siltstone
- Shale and siliceous shale
- Quartzite
- Limestone and quartzite conglomerates
- Chert conglomerate
- Bedded chert
- C Coral bed
- G Graptolites

R, 1971, 1979

Bloody Gulch Plate

(Plate A of Riva, 1970)


True North
18°
Magnetic North
Magnetic Declination
EXPLANATION
Dirt road or jeep trail
Spring
Mine or claim
Measured section
Graptolite locality
Normal Fault
Thrust Fault
Qal
Quaternary:
Alluvium
Tv
Th
Tertiary:
Tv, volcanics; Th, Humboldt Formation.
Jgr
Jd
Jurassic:
Jgr, granodiorite; Jd, ass. dikes.
P4
P3
P2
P1
Permian: Miller Canyon Sequence; P1, Basal sandstone; P2, Limestone unit; P3, Quartzite unit; P4, Upper siltstone unit.
Not in contact
Mc
Mississippian:
Chainman Shale
Thrust Sequences
Unnamed Sequence
Pu
Undifferentiated (Leonardian)
Pbm
Buckskin Mtn Fm.
IPs
Strathearn Fm.
IPq
Quilici Fm.
Angular unc.
Sequence E
Pbm
Buckskin Mtn. Fm.
Disconformity
IPq
Quilici Fm.
Angular unc.
Sequence D
Mdp
Diamond Peak Fm.
Angular unc.
Sn
Noh Formation
Disconformity
Oa
Agort Chert
Ot
Tiser Ls.
Ovv
Volcanics
Ov
Valder Fm.
Ovv, volcanics
Sequence C
Sn
Noh Formation
Disconformity
Ot
Tiser Limestone
Ov
Ovv
Valder Fm.
Ovv, volcanics
Sequence B
Op
Ovv
Pogonip Ls.
Ovv, volcanics
Sequence A
Mdp
Diamond Peak Fm.
Angular unc.
Sn
Oa
Agort Chert
Ordovician
Oa
Agort Chert
Section on Miller Canyon
Miller Canyon
Bricker Fault
Blanchard Mtn.
Bricker Cabin
Trout Creek
Vulcan Mtn.
Agort Pass
Hice Mine (ab.)
Valder Creek
Corral (U. of Nev.)
Larios Creek
Quilici Creek
Knoll Creek
To U.S. 93
Bloody Gulch
Corral
Tiser Spr.
Knoll Spr.
Zuleta Spr.
Coyote Spr.
Schrader Creek
To Texas
Bell Canyon
Bell Mine (ab.)
Bell Mtn.
Corral Canyon
Burnt Canyon
To Wilkins (15 miles)
IDAHO
NEVADA
Map area
H D Range
Elko
Wells
County
US 93
US 40
UTAH
0 50 100
Miles
Section A-A9 (It follows the crest of the range, facing east)
Basement unknown
Knoll (El. 8758)
Trout Cr.
Spring
Zuleta Springs
Coyote Spring
Unnamed Sequence
Pu
Undifferentiated (Leonardian)
Pbm
Buckskin Mtn Fm.
IPs
Strathearn Fm.
IPq
Quilici Fm.
Angular unc.
Sequence E
Pbm
Buckskin Mtn. Fm.
Disconformity
IPq
Quilici Fm.
Angular unc.
Sequence D
Mdp
Diamond Peak Fm.
Angular unc.
Sn
Noh Formation
Disconformity
Oa
Agort Chert
Ot
Tiser Ls.
Ovv
Volcanics
Ov
Valder Fm.
Ovv, volcanics
Sequence C
Sn
Noh Formation
Disconformity
Ot
Tiser Limestone
Ov
Ovv
Valder Fm.
Ovv, volcanics
Sequence B
Op
Ovv
Pogonip Ls.
Ovv, volcanics
Sequence A
Mdp
Diamond Peak Fm.
Angular unc.
Sn
Oa
Agort Chert
Ordovician
Oa
Agort Chert
I
I'
J
J'
K
K'
G
G'
G"
H
H'
E
E'
E"
D
D'
F
F'
C
C'
A
A'
B
B'
Geology mapped in 1958-60; revised in 1964-67.
by
John Riva
1:42,240
1"=4,000
4.75 = 200,000 / 42,240
00500125

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Advance Sheet
Subject to correction
To be published at 1:24 000 scale

WINE CUP RANCH, NEV.
ELKO CO.
760 000
FEET

114°45' 688000m.E. 42'30" R.64 E. 40' R.65 E. 114°37'30"

41°30' 45 96000m.N. 41°30'

T.42 N.
T.41 N.

T.42 N.
2 450 000
FEET
T.41 N.

27'30" 27'30"

25' 25'

2 420 000
FEET
T.41 N.
T.40 N.

41°22'30" 730 000 FEET 42'30" R.64 E. R.65 E. 40' 45 83000m.N. 41°22'30" 698000m.E. 114°37'30"

Pbf - Beacon Flat

Pbm - Buckskin Mtn.
cg - cgl. facies

Ps - Stratheim
c -

Pw - Wineeup
Pw-c/g/o -

Mdp - Diamond Peak

Mc - Chainman

Ov - Valmy Grp.
Oa - Agont Clf.

Ow - Wilkins Lst.

Th - Tertiary Sed.

Zee Well
Borrow Pit
Thousand Springs Well
Thousand Springs Valley
Creek
Springs
Well
Wine Cup Ranch
Hot Wells
Threemile Ranch
Valley Creek
Indian Spring
Brush Creek
WINDERMERE HILLS

Mapped by Pacific Region, Geological Survey

This is an unedited copy of an original manuscript including field additions made in 1968

BOUNDARY AND SECTION CORNER DATA CODE

MONUMENT FOUND

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2. Iron pipe, other official cap.
3. Private LS pipe & cap or comparable mon.
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5. Wood post, scribed.
6. Bearing tree, authentic, BLM notes used.
7. Fence corner.
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10. Iron pipe not marked.
11. Cairn or mound of rock.

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SCALE 1:24000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

GN MN
1°32' 27 MILS
17½° 311 MILS
UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

WINE CUP RANCH, NEV.
ELKO CO.

Wells 1 NW, Nev.
Wells Project

00500125