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PRINTED: 11/27/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BLACK BUTTE GROUP

ALTERNATE NAMES:
PUPPY DOG

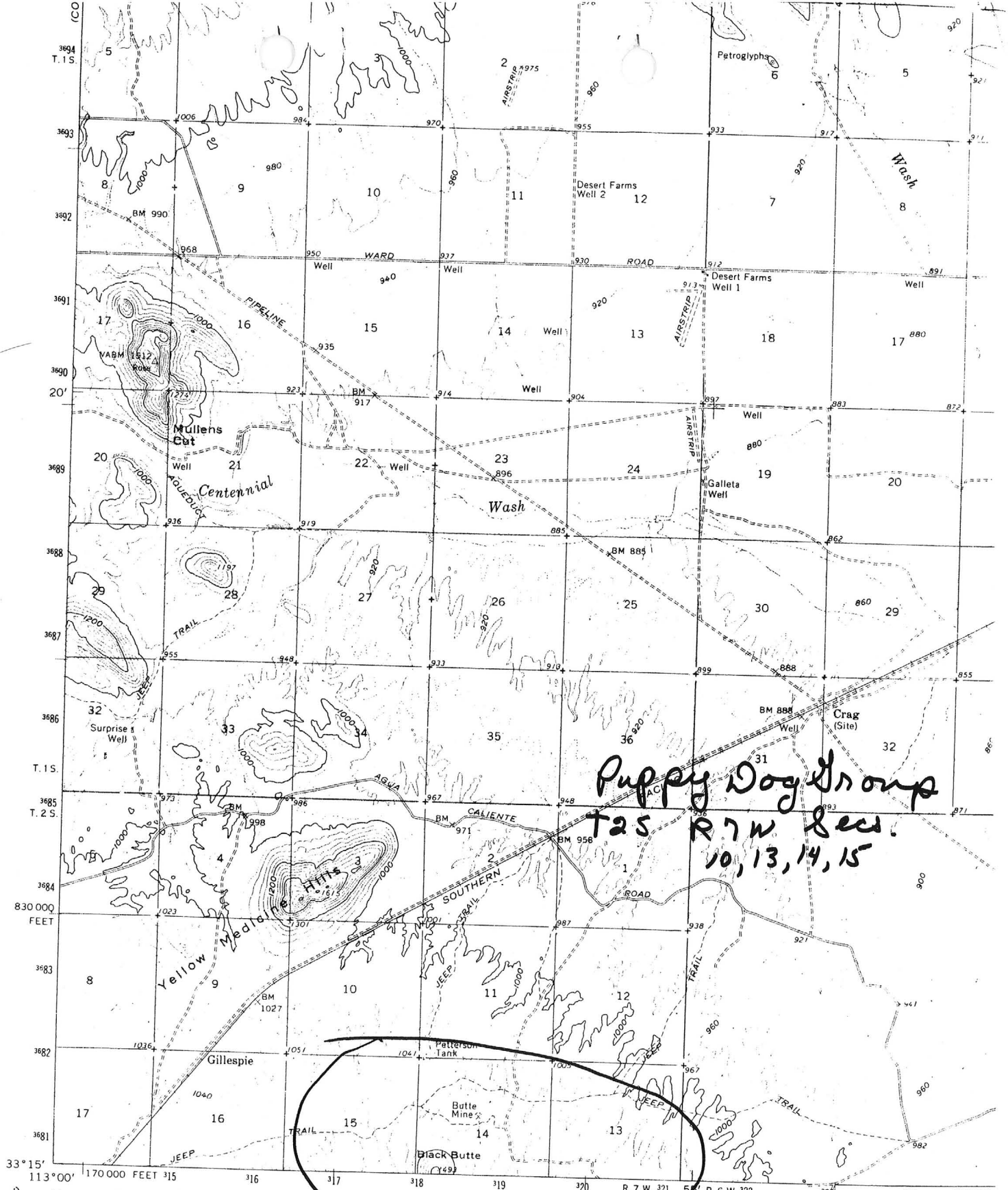
MARICOPA COUNTY MILS NUMBER: 62A

LOCATION: TOWNSHIP 2 S RANGE 7 W SECTION 14 QUARTER NW
LATITUDE: N 33DEG 15MIN 26SEC LONGITUDE: W 112DEG 56MIN 43SEC
TOPO MAP NAME: ARLINGTON - 15 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:
COPPER OXIDE
COPPER SULFIDE
GOLD LODE
BARIUM BARITE
FLUORINE FLUORSPAR

BIBLIOGRAPHY:
USGS ARLINGTON QUAD
ADMMR BLACK BUTTE GROUP MINE FILE




Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1960 and planetable surveys 1962

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Where omitted, land lines have not been established

UTM GRID AND 1962 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE

CONTOUR I
DOTTED LINES REPR
DATUM IS

arlington, Az. 15 min

THIS MAP COMPLIES WITH NATIO

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER
A FOLDER DESCRIBING TOPOGRAPHIC MAP

GROUP

MARICOPA COUNTY

2/20/87: Harold and Beverly Best (c) report that Rhyolite Resources (c) maintain the claims covering the Black Butte Group (file) Maricopa County. as Gulf Resources (c) is still a joint-venture on the property with Rhyolite.

---

NJN WR 8/7/87: Janice Coggin (card) reports that City Resources Canada Ltd which is part of an Australian company, has agreed to a joint venture with Rhyolite Resources (card) on the Black Butte Group (file) Maricopa County. Mapping and reverse circulation rotary drilling are to begin in August.

---

NJN WR 10/2/87: Harold Best (card) and Beverly Heinrichs visited and reported that City Resources (card) and Rhyolite Resources Inc (card) will be working again this winter on the Black Butte (file) Maricopa County. When they receive a copy of last year's data they will send a copy.

---

NJN WR 11/27/87: Harold Best (card) and Beverly Henrichs visited and brought in reports prepared by City Resources dated 9/14/87 on the Black Butte (file) Maricopa County. This report discusses the results of a mapping, trenching and sampling project conducted in August, 1987 at the Atos Mine (George Washington - file) Yavapai County.

---

BLACK BUTTE GROUP MARICOPA COUNTY

RRB WR 2/11/83: Dr. Frank Kerns, PhD(a resource economist at ASU) of Fairweather Industries, 1427 E. 3rd. Place, Mesa, AZ 85203, phone 833-2389 reports that they have the Black Butte Group, Section 14, T2S R7W, Maricopa County. Mr. Brown of Tempe apparently developed a process for them and Harold Best is to set it up and operate it. The process will consist of loading the pad with mine run, ripped and dozed muck, giving it a "pre-acid leach" to remove the copper and then leaching with thio-urea to extract the gold. Dr. Kerns said that there were 30,000 to 40,000 tons of dump on the surface and that the mineralization covered an area of at least 4,000 x 7,000 feet.

---

NJN WR 7/1/83: Beverly Best reported that Rhyolite Resources of Vancouver B. C., Canada has done some drilling recently on their Puppy Dog Claims (Black Butte Group), Maricopa County. ONe ~~hold~~ hole averaged over 1 oz Au/ton for more than 60'. Further drilling is planned on the property.

---

RRB WR 8/5/83: Clare C. Richardson, 1125 N. 6th Ave., Tucson, AZ 85705 of Rhyolite Resources from Vancouver, B. C. reports that they acquired the Black Butte Property (Puppy Dog Claims) from Quest. They have an engineer and a geologist on the property and are conducting a core drilling program.

---

NJN WR 10/26/84: Larry Pendergast with Ingersol-Rand called and reported he had heard a rumor that Rhyolite Resources was going to do some development on their Puppy Dog Claims (Black Butte Group [f] Maricopa County.)

---

NJN WR 4/12/85: Harold and Beverly Best (c) visited and brought in reports and maps on three of their properties, the Sunday Claim Group (f) Cochise County, Puppy Dog (Black Butte (f)) Maricopa County, and Table Mtn (f) Pinal County.

---

RECEIVED
NOV 5 1982
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

Nov. 3, 1982

Dear Janice -

Here is some info. I said I'd get to you yesterday -

The "Black Butte" MARICOPA CO, mine is owned by us, as I said.

There are 53 unpatented lode claims in the group known as the "Puppy Dog Claims" - BLM numbers - AMC 183110 thru AMC 183162 - Legal owner - Beverly Hinrichs, P.O. Box 495, Apache Junction, Az., 85220

The adjacent 126 unpatented claims to the west of the Puppy Dog group are also recorded at BLM to Robert Clausen, Chandler, Az.

When I get any more info I think you could use - I'll send it or bring it to you -

Always
Beverly Hinrichs
& Quest!

# BLACK BUTTE PROSPECT

## GEOLOGY SUMMARY

A thick section of Cretaceous (?) andesitic volcanics occupies most of the region around the Black Butte claims. In the immediate area of the prospect these volcanics have been intruded by granitic rocks, ranging in composition and texture from a quartz-porphyry to a granodiorite, to a pegmatite-aplite. These granitic rocks cut the volcanics in a most complex, random manner, isolating large blocks of the andesite as zenoliths and partially re-working some, resulting in a "hybrid" rock which combines features of the granite and of partially "digested" volcanics. Both the granitic and volcanic rocks are intensely altered, the andesite being most affected near its contacts with the granite. Sericite, clay, chlorite and serpentine are the most common alteration minerals found, with some orthoclase-flooding and silicification occurring erratically. Younger dikes and sills of basalt and diabase cut both the granite and older basic volcanic rocks, and are usually fresh and barren. A basalt cone, "Black Butte," occupies the southwestern quarter of the claims; and a generally thin veneer of alluvium, and rubble from Black Butte, covers more than half of the remaining claims. This cover is, in some places, as much as 60 feet thick, due to the very uneven surface of the buried bedrock. The topography in the area is essentially flat except for Black Butte which rises 400 feet or so above the plain.

Scattered copper mineralization was found over an area of approximately 7,000 x 4,000 feet. Surface exposures consist mainly

of isolated outcrops containing chrysocola and malachite, with some chalcocite and rare chalcopyrite. Visible specks of native gold in copper-bearing quartz veins are found in some places. Copper mineralization occurs mainly in the sericite-altered granitic rocks as disseminated specks, copper-silicate-soaked feldspars, and in steep north-northwest-trending shear zones and associated veinlets. Quartz and quartz-barite-fluorite veins are locally very abundant, randomly oriented, and cut both the volcanic and granitic rocks. These veins occasionally carry copper and, more rarely gold values.

R.F. McFate

[illegible]
[illegible] Canada
[illegible]
[illegible]

Claim map "Ron"

Mining Claims

Township 2 South

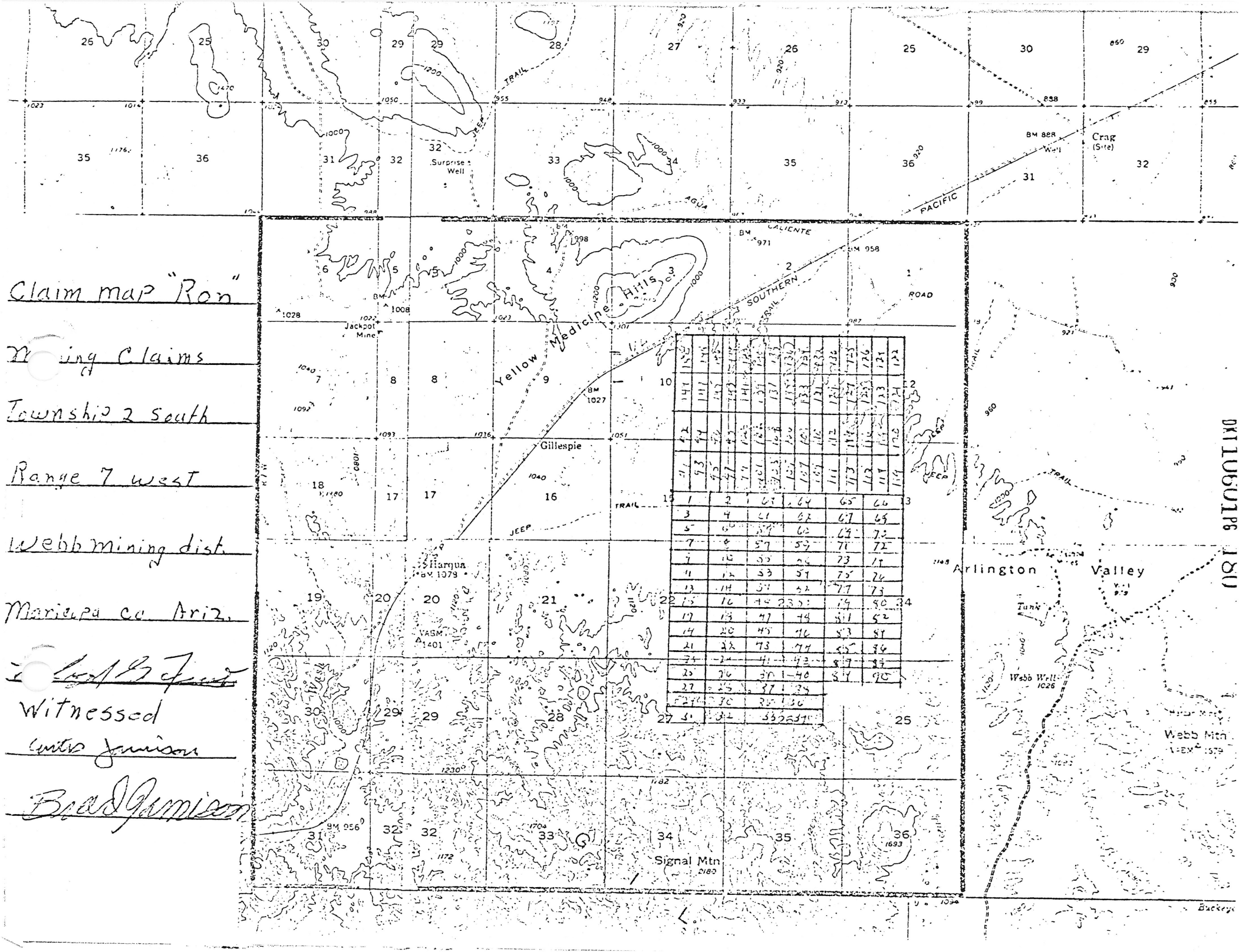
Range 7 west

Webb mining dist.

Maricopa co Ariz.

Witnessed

Brad Jamison




BK11061PG 1800

C.T. EXPLORATION COMPANY

MOND DRILL RECORD

SCALE 1" = 10'

DIRECTION

INCLINATION Vertical

STARTED 21 October 1968

COMPLETED 30 November 1968

DEPTH 357 feet

NOTES BY F. J. Helsper

PROPERTY Black Butte

LOCATION Sta. 1 W. 1 P. Line 1 S.

COLLAR COORD. N. E.

COLLAR ELEV. ± 1050 ft

SHEET 1 OF 11

25 Oct 1968

| ASSAYS Au PPM | Au PPM | | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| Composite sample of shale 8 | Nil | | | | Rock Bit | Alluvium (Very red, clay-rich mud, fine quartz pebbles - red sand + silt) |
| | | | 50 | | | |
| | | | 60.0 | | 60' | Probable bedrock surface. |
| | | | | | | Soft, weathered Granite - No Core |
| | | | 66 | | Granite B.Q. | 66' Begin coring |
| | | | | | | Granite (as below) |
| | | | 72 | | 5" section of Granite with shear contact at 60°<br>CaCO3 seam at 90°, some BaSO4<br>Shear 74' | Andesitic volcanics; Strongly fractured with many random seams strongly filled with BaSO4 and/or CaCO3 mine BaSO4. Strong red to black FeO and fine sericite<br>74' |
| | | | 80 | | Numerous fine, random, FeO-filled fractures. Texture similar to a Breccia.<br>cored 80' | Granite: Medium to coarse-grained; mainly equigranular; very abund. quartz as grains; feldspars completely altered by v. sl. argillic and sericitic alteration; minor to no mafics; abundant red to black stained FeO as disseminations and in numerous fine fractures<br>85.5' |

EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 1" = 10'

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY F J Nelson

HOLE NO. Black Butte #1
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 2 OF 11
25 oct 1968

| ASSAYS Cu PPM | ASSAYS Au PPM | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|
| | | | | 90' | |
| | | | | Highly fractured loc brecc. v. st. FeO in fractures and as stain common veinlets with caso4-BaSo4 | Andesitic volcanics: (as above) Some intervals Porphyry, mainly conglomerate. Color generally red-brown to brownish purple. |
| | | 101 | | Specimen 100' | |
| 56 | .004 | | | | |
| | | 106 | | | |
| | | | | Contact nearly normal to core - sharp. | 108' |
| | | | | Mod FeO in specks and fine fractures | "Porphyry": intensely altered; texture and composition obscured; (Possibly acidic dike-rock) less quartz than granite; distinct patches of Porphyry, with numerous small alt'd feldspar phens in grey-green "waxy" matrix. |
| | | 116 | | Specimen 115' | |
| 28 | Nil | | | Contact obscured | 119' |
| | | 125 | | Strong red-brown FeO | Andesite: (as above) BaSo4 and siderite common in fracts |
| | | | | Contact obscured | 125' |
| | | | | Iron oxides, varied in color from brick red to brown-black very abundant as discon specks and in numerous fracture fillings. Pyrite, siderite common. | Mostly "Granitic" rock of variable texture and composition; Porphyry texture, (similar to 108-119 rock) is very common; quartz variable in quantity; No mafics visible; chiefly muscovite; feldspars completely altered to very soft chalky clay and occas. v. st. sericite. Most of the varied intervals may represent hybrid rock - i.e. Porph or wholly digested andesite. |
| | | 146 | | Specimen 145' | |
| 8 | Nil | | | | |
| | | 151 | | | |
| | | | | Specimen 154' | |
| | | | | | Intense argillic alteration |
| | | 166 | ? | No core recovered | No Core Recovered |
| | | 171 | | Core highly crushed, v. altered slot core. Probable fault zone | Texture and composition obscured. Probably highly sheared, altered andesite (?) |

CET EXPLORATION COMPANY

MOND DRILL RECORD

SCALE 1" = 10'

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY F. J. Ison

HOLE NO. Black Butte #1
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 3 OF 11
2 Oct '68

| ASSAYS Au PPM | SECTION | COLUMN | DETAIL NOTES 120' | GENERALIZED NOTES |
|---|---|---|---|---|
| | | | Specimen 130' | |
| | 201 | | | |
| 44 Nil | | | | |
| | 206 | | Strong, varied-colored iron oxides (staining, limonite casts and fracture fillings) veinlets of Fe and Mn oxides with quartz barite siderite and calcite common | Intensely altered, mixed, andesite, "porphyry," Granitic rocks, and "hybrid" rocks. Texture and composition almost completely obscured — most of this interval appears to be volcanics. Feldspars all soft, clay and sericite altered All units highly fractured |
| | | | Specimen 220' | |
| | | | Specimen 223 | Distinct andesite interval |
| | 241 | | | |
| 0 Nil | | | | |
| | 246 | | | |
| | | | Intense silicification | |
| | | | Specimen 250' | |

E[illegible]PORT EXPLORATION COMPANY

DIAMOND DRILL RECORD

SCALE 1" = 10'

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY F. J. Nelson

HOLE NO. Black Butte #1
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 4 OF 11
28 Oct 1[illegible]8

| ASSAYS Cu PPM | ASSAYS Au PPM | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|
| | | | | 270' | |
| | | | | (As above) | Andesite and "hybrid" rocks: (as above) |
| | | | | 276' — contact obscured | 276' |
| | | | | ST. FeO dissem and veinlets | Granite: (as above) highly clay-alt. feldspars |
| | | 286' | | | |
| 32 | Nil | | | Specimen 288' | |
| | | 291' | | Contact obscured | 291' |
| | | | | Specimen 300' | Andesite: (as above) well fractured |
| | | | | Red-brown color. Med to 5" veinlets - random with Fe, Mn oxides, Ba SO4 minor calcite, siderite | |
| | | 312' | | Contact obscured | 312' |
| | | | | ST. FeO (as above) | |
| 24 | Nil | | | Specimen 320' | Granite: (as above) |
| | | 317' | | | |
| | | | | Sharp contact at 15° | 327' Andesite |
| | | | | Contact obscured | 330' "Intrusive (?) rock" highly altered to clay and serp, original structure, texture and composition obscure. |
| | | | | Specimen 335' | 335' |
| | | | | Gen. mod. to strong veinlet FeO stains | Andesite (as above) |
| | | | | Specimen 345' | |
| | | 350' | | Sharp contact at 25° | 349' Intrusive rock (as above 330-335') |
| | | | | Irreg. contact at 31° | 354' |

REPRESENTATIVE ASSAYS

BLACK BUTTE PROSPECT

| SAMPLE NO. | DESCRIPTION | CU% | AU OZ/Ton | AG OZ/Ton |
|---|---|---|---|---|
| I (grab) | Intensely sercite-altered quartz-porphyry. Strong CU. oxides. | 2.20% | 0. I25 | 0.04 |
| 2 (grab) | Same as #I 50 Ft. North | 2.00% | 0.020 | 0.06 |
| 3 (5 Ft. chip) | Mixed volcanics and sericite altered granitic intrusive. Weak CU. oxides. | 0.32 | Trace | Trace |
| 4 (grab) | Intensely altered quartz porphyry. greenish sericite | I.92 | 0.I20 | 0.02 |
| 5 (grab) | Intrusive. Highly altered by sericite.Abundant CU and Fe oxides | 2.32 | 0.300 | 0.I2 |
| 6 (grab) | Intensely altered greenish sericite. No CU minerals visible. | 0.05 | Trace | Trace |
| 7 (IOFt chip) | Highly altered(sericite) Fine grained quartz. rich intrusive. Weak CU.oxides | 0.35 | Trace | Trace |
| 8 (grab) | Intrusive. Strong sericite Abundant Fe and Cu. oxides | 4.08 | 0.740 | 0.06 |
| 9 (grab) | Granodiorite? Pateky CU. Fe | I.64 | Trace | 0.06 |
| IO(grab) | Mixed volcanics and sericite altered intrusive. Abundant barite. | 0.92 | 0.I00 | 0.08 |
| II(5Ft chip) | Sericite altered intrusive. Abundant barite. Minor Cu visible | 0.47 | 0.I50 | 0.05 |
| I2(grab) | Granitic intrusive. Altered volcanics. Moderate Cu oxides Some Barite. | I.68 | 0.I20 | 0. |
| I3(grab) | Same geology as #26 (600Ft. S. E. | I.20 | 0.I40 | 0.I4 |
| I4(5Ft chip) | Greenish Sericite. Granitic intrusive. | 0.34 | 0.020 | 0.I0 |

# FREEPORT EXPLORATION COMPANY

## DIAMOND DRILL RECORD

SCALE 1" = 10'

DIRECTION _____
INCLINATION _____
STARTED _____
COMPLETED _____
DEPTH _____
NOTES BY F. J. Nelson

HOLE NO. Black Butte
PROPERTY _____
LOCATION _____
COLLAR COORD. N. _____ E. _____
COLLAR ELEV. _____
SHEET 5 OF 11

| % RECOVERY | ASSAYS Cu PPM | ASSAYS Au PPM | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| | | | | | 360' | |
| | | | | | St. brown-red Fe O | Rock highly broken brecciated clay altered. Probably Volcanics. |
| | | | | | Specimen 370' | BX / HX — 370' |
| | | | | | Mod. brown-red Fe O in fractures | Andesitic volcanics - argillized |
| | | | | | Core mostly lost | |
| | | | | | | 320' |
| | | | | | Mottled dissem Fe O | Granitic clay alt'd - highly fractured |
| | | | 390 | | | 380' |
| | 300 | Nil | | | | |
| | | | 300 | | | |
| | | | | | 410' | |
| | | | 415' | | Fe O [illegible] variable generally stringers or moderate clotes [illegible] yellow to brown black and red [illegible] as dissem specks knots and stringers. Some [illegible] $FeCO_3$, siderite [illegible] in veinlets | Completely mixed highly altered rocks. Appears to be [illegible] of [illegible] volcanics and hydrothermal [illegible] the features contacts and contacts between the [illegible] are often obscured by intense [illegible] alteration. Fracturing and fine veining is rather [illegible] well developed. |
| | 64 | Nil | | | | |
| | | | 420 | | | |
| | | | | | 430' | |
| | | | | | 440' | |

# FREEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 1" = 1'

DIRECTION _____ HOLE NO. Black Rock
INCLINATION _____ PROPERTY _____
STARTED _____ LOCATION _____
COMPLETED _____ COLLAR COORD. N. _____ E. _____
DEPTH _____ COLLAR ELEV. _____
NOTES BY J. Helin SHEET 6 OF 11

| % RECO | ASSAYS Cu PPM | ASSAYS Mo PPM | ASSAYS | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|---|
| | | | | | | 450' | andesite |
| | | | | 455 | | Mod to loc. strong Fe.O. (as above) | Fine grained, porphyritic, granitic and "hybrid rocks" some short intervals appear to be andesite. Gen. st clay-serc alt. 457' |
| | 24 | Nil | | 460 | | specimen 461' | Med to coe grained, Qtz-rich granitic rock with some short fine-grained intervals 463' |
| | | | | | | Very wk. to no Fe.O. Med. calcite-barite veinlets | Dark grey dense andesite. Mostly fresh, unaltd. |
| | | | | | | specimen 475' | 475' |
| | | | | 475 | | Contact shows frags of andesite as inclus in granite | |
| | 32 | Nil | | 485 | | | |
| | | | | | | specimen 491' | |
| | | | | | | Mod and to loc. st veined-enlar Fe.O. | Granite: med grained, locally wkly porphyritic Feldspar sericitized to clay-sericite, abund qtz. |
| | | | | 495 | | | 493' |
| | | | | | | Rare to v wk Fe.O. | Rare v. wk, v. fine sulphides (FeS2) |
| | 36 | Nil | | 500 | | | |
| | 48 | Nil | | | | andesite | 510' |
| | | | | | | specimen 507' | Intermediate and "hybrid rock" |
| | | | | | | | 510' |
| | | | | | | Very rare to none Fe.O. v. v. Fe.O. | Andesite with fresh mostly |
| | | | | | | specimen 520' | |
| | | | | | | | 525 |
| | | | | | | | Porphyritic [illegible] |
| | | | | | | Very wk. Fe.O. Trace to none Fe.O. | |

# TELEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 1" = 10'

DIRECTION _____ HOLE NO. [illegible]
INCLINATION _____ PROPERTY _____
START D _____ LOCATION _____
COMPLETED _____ COLLAR COORD. N. _____ E. _____
DEPTH _____ COLLAR ELEV. _____
NOTES BY F. I. Nelson SHEET 7 OF 11

| % RECD | ASSAYS Au PPM | ASSAYS Au PPM | ASSAYS | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|---|
| | | | | | | 540' | |
| | | | | 550 | | Specimen 543' | |
| | 212 | Nil | | 555 | | Cu 25 | |
| | | | | 570 | | [illegible] | "Porphyry": (as above): texture variable; feldspar phenos and quartz "eyes" set in aphanitic matrix most common; locally equigranular; No fresh feldspars; all altered to pale greenish serpentine-sericite with trace, pale white-green clay; Matrix also highly altered to greenish soft serpentine; locally clay-sericite. Moderate to locally strong random fracturing. Pyrite is the mafic minerals |
| | 30 | | | 575 | | [illegible] | |
| | | | | | | Specimen 555' | |
| | | | | 600 | | [illegible] | |

# FREEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 1" = 10'

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY F. J. Malone

HOLE NO. Black Rock
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 8 OF 11

| % RECD | ASSAYS Cu PPM | ASSAYS Mo PPM | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| | | | | | 630' | |
| | | | | | V. WK FeS2 minor Fe oxides. Rare to no CuFeS2 Few fine specks CuFeS2 | "Porphyry": (as above) texture poorly developed Greenish-gray; ~~generally grained, minor~~ abund. clots of chlorite |
| | | | 650 | | | |
| | 40 | Nil | | | 3" quartz vein | 652' (indistinct contact - may be gradational) |
| | | | 655 | | Specimen 657' | Granite: med to med-cse grained; abund. qtz; generally equigran, loc. Porph; rare to no mafics. Very strong "Flooding" by salmon-pink orthoclase. |
| | | | | | | 673' |
| | | | | | Specimen 673' | |
| | | | 675 | | | |
| | 23 | Nil | | | | |
| | | | 680 | | Broken, shattered | Andesite dike |
| | 576 | .003 | | | 683' | |
| | | | 685 | | WK to mod CuFeS2, FeS2 tr. CuFeS2 as disseminations and in a few fractures with Fe ox. | "Porphyry": (as above) texture only partially preserved in local patches. Gen fine-med grained, loc equigranular. Intense Greenish-grey sericitic alteration. Abund clots of chlorite. loc intervals more dark green |
| | 976 | .006 | | | | |
| | 64 | Nil | | | | |
| | | | 695 | | Specimen 693' | ± 29 feet visible CuFeS2 |
| | 39% | .002 | | | 10" altered fine-grained porphyry with minor CuFeS2 fine disseminations | |
| | | | 700 | | Essentially barren fresh fine porphyry | Andesite dike |
| | | | | | Specimen 704' | |
| | 154 | Nil | 710 | | | |
| | | | | | 712' | |
| | 100 | Nil | 715 | | | |
| | 60 | Nil | | | | |

# FREEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 1" = 10'

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY F. Nelson

HOLE NO. Black Butte
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 9 OF 11

| % REC'D | ASSAYS Cu PPM | ASSAYS Au PPM | SECTION | COLUMN | DETAIL NOTES 720' | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| | | | 730 | | Specimen 728' | "Porphyry" (as above) |
| | 20 | Nil | 735 | | | |
| | | | | | very weak to weak FeS2. Rare to trace [illegible] minute grains. Med. [illegible] | Andesite dike |
| | | | | | Specimen 750' | "Sandstone" (?): Fine grained, [illegible] |
| | | | | | | [illegible] dike |
| | 20 | Nil | | | | |
| | | | | | | [illegible] dike |

FREEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD

SCALE 1" = 10'

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY E. J. Nelson

HOLE NO. Black Butte
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 10 OF 11

| % CORE RECD | ASSAYS Cu PPM | Au PPM | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| | | | | | 810' | |
| | | | | | Specimen 820' | |
| | | | | | As above rare to no $FeS_2$, $CuFeS_2$ | "Granodiorite" (?) (as above) |
| | 24 | Nil | | | Specimen 850' | |
| | | | | | | Andesite dike |
| | | | | | | |
| | | | | | Specimen 880' | Andesite dike ... |
| | 24 | Nil | | | | |

# [illegible]PORT EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 1" = 10'

DIRECTION _____
INCLINATION Vertical
STARTED 21 Oct 1968
COMPLETED 20 Nov 1968
DEPTH 957'
NOTES BY F. L. Nelson

HOLE NO. Black Butte #1
PROPERTY Black Butte
LOCATION Maricopa Co., Arizona
COLLAR COORD. N. _____ E. _____
COLLAR ELEV. ±1050 ft
SHEET 11 OF 11

| ASSAYS | | | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| Au PPM | Ag PPM | | | | 200' | |
| | | | | | Specimen 210' | |
| | | | | | andesite | andesite dike |
| | | | 922 | | | "Granodiorite" (?) as above - intensely altered; Pale to dark Grey-Green; Sericite, chlorite, epidote common. Fine Grained, equigranular texture and composition completely obscured but rock does appear to be intrusive loc. gneissic texture. Some intervals similar to "Porphyry" |
| 20 | Nil | | 927 | | Rare to no Pyrite Trace 3uFeS2(?) No Fe oxides | |
| | | | | | Specimen 950' | |
| | | | 952 | | | |
| 16 | Nil | | 957 | | | |
| | | | | | E.O.H. | End of Hole — 957 feet 11/20/1968 [illegible] |

PLEASE RETURN TO
R. F. MCFATE
~~3920 W. Palmaire~~
Phoenix, Ariz.
85021
6219 - 10th Avenue

# FREEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD

SCALE 1" = 10

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY F. Nelson

HOLE NO. BB-2
PROPERTY Black Butte
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 2 OF

| ASSAYS | | | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| Cu PPM | Au oz/ton | | | | | |
| | | | | | 90' | andesite (as above) |
| | | | | | | Granite (as above) |
| | | | | | | 107' |
| | | | | | calcite veinlet | Complexly mixed, rapidly varying intervals of granite-andesitic volcanics; "hybrid" rocks (mainly "hybrid") well fractured and altered. |
| | | | | | Specimen 115' | |
| | | | | | Persistant fine, random, shears and fractures mostly healed with red-brown to yellow and brown FeO. Some disseminated. Few rare specks FeS2. | |
| | | | | | | 116' |
| | | | | | | Andesitic volcanics: red-brown to purple; moderately well fractured; weakly altered. |
| | | | | | | 129' |
| | | | | | Specimen 132' | "Hybrid" rock: texture and composition obscured by strong alteration; many clots of serpentine and calcite. mod. fract. |
| | | | 140 | | | |
| 25 | Nil | | | | | Granite: med. to medium grained; 5% chlorite and biotite |
| | | | 145 | | | |
| | | | | | | Granite (as above) fine-grained [illegible] |
| | | | 165 | | | |
| 25 | Nil | | | | | |
| | | | 170 | | | |
| | | | | | Specimen 171' | |

# FREEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD

SCALE 1" = 10

DIRECTION N 87° E
INCLINATION 2°
STARTED Dec. 1968
COMPLETED Feb. 3, 1969
DEPTH 899 feet
NOTES BY F.J. Nelson

HOLE NO. Black Butte
PROPERTY Black Butte
LOCATION Lincoln Co. Nevada
COLLAR COORD. N. ____ E. ____
COLLAR ELEV. ____
SHEET 1 OF 10

| ASSAYS | | | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| Cu PPM | Au oz/ton | | | | | |
| | | | | | 0 | |
| | | | | | Rock Bit | Gravel and Hard, well indurated caliche |
| | | | | | Basin cove | |
| | | | 15 | | NX | |
| | | | | | BX | |
| 52 | Nil | | | | | |
| | | | 20 | | 19' | (approx) |
| | | | | | Specimen 22' | Red, FeO stained Andesitic volcanics; moderately broken. Some surface weathering |
| | | | | | | 25' |
| | | | | | | Hybrid rocks: Probably originally volcanics, partially digested and reworked by intruding granite. Feldspars altered to greenish waxy substance-sericite(?). |
| | | | | | | 31.5' |
| | | | | | Specimen 35' | Complexly mixed volcanic, "hybrid", and granitic rocks textures and compositions obscured by alteration of Feldspars. Appears to be mainly volcanics |
| | | | | | Med. to low St. Fe Yellow-brown to red-brown, as fracture fillings, veinlets, and disseminations. | 42' |
| | | | 45 | | | |
| 36 | Nil | | | | | |
| | | | 50 | | | |
| | | | | | | Granite, with minor intervals of "hybrid" rocks. Granite med. pinkish, med. to fine grained, equigranular, muscovite knife shears, fractures, feldspars altered to white and green (sericite?), some calcite on fractures. Some short intervals as brecciated as to 75' bleb breccia. |
| | | | | | Specimen 60' | |
| | | | | | Fine grained FeSn | |
| | | | | | Specimen 75' | |
| | | | | | Specimen at 80' from [illegible] | 73' |
| | | | | | | Andesite with fractures, minor veinlets, minor [illegible] |

# FREEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 1" = 10'

DIRECTION _____ HOLE NO. BB-2
INCLINATION _____ PROPERTY Black Butte
STARTED _____ LOCATION _____
COMPLETED _____ COLLAR COORD. N. _____ E. _____
DEPTH _____ COLLAR ELEV. _____
NOTES BY E. J. Nelson SHEET 3 OF 16

| ASSAYS | | | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| Cu PPM | Au oz/ton | | | | | |
| | | | 180 | | | Gradational change from "Granodiorite" to "hybrid" |
| | | | 185 | | | |
| 80 | Nil | | 190 | | Moderate brown-yellow and red-orange FeO in fine fracts. No sulphides | "Hybrid" rock: texture and composition obscured; probably granitic - abund. clots of chlorite-serpentine, biotite in altd shreds and ragged books. |
| | | | | | Specimen 198' | |
| | | | | | V. sharp contact at 35° | 201' |
| | | | | | | Andesitic volcanics (as above). |
| | | | | | 6" granite dike | 206' |
| | | | 210 | | | |
| 36 | Nil | | | | | Granite: mainly equigranular; medium-grained; some short intervals porphyritic; minor hybrid and volcanic sections. Feldspars highly altered. Some patchy strong sericite and wispy chlorite and biotite |
| | | | 220 | | weak to mod. FeO No sulphides visible | |
| | | | | | Specimen 225' | |
| | | | | | Sharp contact at 230' | 233' |
| | | | | | Specimen 241' | |
| | | | | | Narrow veinlets chlorite-biotite with FeO | Volcanics - andesitic (as above) |
| | | | 250 | | Sharp contact at 60° | 253' |
| | | | | | Specimen 252' | |
| | | | | | [illegible] | Sediments [illegible] highly altered to sericite, chlorite, biotite, etc. |
| | | | 260 | | | 261' |

# ...ERT EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 1" = 10'

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY F.J. Nelson

HOLE NO. BB-2
PROPERTY Black Lake
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 4 OF 10

| ASSAYS | | | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| | | | | | 270' | |
| | | | | | Weak Fe ox. No sulphides | Granodiorite: (as above) |
| | | | | | Specimen 282' | |
| | | | | | | 288' |
| | | | 280 | | | |
| | | | | | Strong reddish Fe ox in veinlets and dissem. | Granite: med-coarse grained; equigran; Feldspars highly alt'd to sericite, serpentine; mafics chloritized |
| 20 | .003 | | | | | |
| | | | | | Specimen 298' | |
| | | | 300 | | | 293' |
| | | | | | weak to no Fe ox | Andesitic volcanics |
| | | | | | | 307' |
| | | | | | Specimen 315' | |
| | | | | | | andesite |
| | | | | | Strong reddish to yellow orange Fe ox Rare specks FeS2 | Granite: well altered by sericite; Highly fractured in random attitudes some pale greenish serpentine |
| | | | 340 | | | |
| | | | | | Specimen 343' | |
| 32 | | | | | | |
| | | | 350 | | | 351' |

# REEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 1" = 10'

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY F.J. Nelson

HOLE NO. Black Butte "2"
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 6 OF 10

| REC'D | ASSAYS Cu PPM | ASSAYS Au oz/ton | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| | | | | | 450' | |
| | 60 | | | | Strong red Fe ox some dissem $FeS_2$ ← st. qtz-calcite vein on contact | Granite: fine grained; alt'd feldspars (as above) 454' |
| | | | 460 | | Strong Fe O staining (red to yellow-brown) generally highly fract. re-healed by calcite, qtz, barite, Mn and Fe oxides | Andesitic to basaltic volcanics |
| | | | | | Specimen 472' | 470' |
| | | | | | | Granite: (as above) |
| | | | | | Well fractured mod to st red to yellow Fe ox rare speck $FeS_2$ | |
| | | | | | contact indistinct | 485' |
| | | | | | | Hybrid and andesite, mixed |
| | | | 490 | | | Mostly volcanics |
| | | | | | Contact indistinct, approximated | 493 |
| | 32 | | | | | |
| | | | 500 | | Finely fractured, med. to st. Fe O after sulphides dissem and in fractures. No $FeS_2$ | Granite: (as above) fine grained intensely altered to sericite and serpentine some clay and chlorite |
| | | | | | Specimen 508' | |
| | | | | | | 512' Andesite 515' |
| | | | | | | Granite (as above) st. sericite-silica |
| | | | | | Weak to v. wk Fe O Trace to rare $FeS_2$ | 520 Andesite 524' |
| | | | | | | Granite (as above) st. sericite-silica 533' |
| | | | | | | Andesite weak "gneissic" texture |

# EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY L. F. Tyrala

HOLE NO. 23-2
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 5 OF 10

| ASSAYS Cu ppm | ASSAYS Fe oz/ton | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|
| | | | | 360' | |
| | | | | Little Fe Quartz Veinlets Occasional | Andesitic To Basaltic Volcanics (Cont). |
| | | | | | 371' |
| | | 375 | | Fe Stained Fractures | Andesite – Similar To Above Unit, But More Porphyritic. Occasional Phenocryst Altered To Serpentine. |
| 28 | Nil | | | | 380' |
| | | 395 | | Specimen To Show Matrix | "Hybrid" – As Above, Indistinct Phenocrysts Show Partial Alteration To Serpentine. |
| | | | | | 397' |
| | | | | Feldspar Partially Altered To Clay | Andesitic Volcanics – Phenocryst Dimensions Decreasing. |
| | | 410 | | | 410' |
| 28 | .005 | | | | |
| | | 420 | | Phenocrysts Altered To Clay And Serp. Very Only Tr Sulfides. Specimen | Granite – As Above. Definite But Indistinct Granitic Texture. Phenocrysts Mostly Of Feldspar, But Occasional Quartz Phenocrysts. |
| | | | | | Volcanics – As Above And Varying To "Hybrid". |
| | | | | | 438' |
| | | | | Limonite After Pyrite | |

# NEWPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD

SCALE _____

DIRECTION _____ HOLE NO. BB-2
INCLINATION _____ PROPERTY _____
STARTED _____ LOCATION _____
COMPLETED _____ COLLAR COORD. N. _____ E. _____
DEPTH _____ COLLAR ELEV. _____
NOTES BY L. M. TYRALA SHEET 7 OF 10

| ASSAYS Cu ppm | ASSAYS Au oz/ton | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|
| | | 540' | | | |
| 24 | | 550' | | Occasional Grains Of Pyrite Can Be Found Throughout Intervals That Have Gneissic Appearance. Fe Staining Rare. | Granite-Gneiss: Rock Shows Variable Texture. Gneissic Component Is Essentially Altered Hornblende Chlorite And Serpentine And Quartz. Granitic Component Is Similar To Earlier Descriptions Of Rock In This Hole. Locally It Is More Coarsely Grained Than Previous Granite. Pyrite Found In Gneissic Phase. |
| | | | | Specimen | 558' Volcanics: As Above |
| | | | | Fractures More Or Less Confined To Granite Component | 566' |
| | | | | Occasional Magnetite And Pyrite | |
| | | | | Specimen | Granite-Gneiss: As Above |
| | | | | Little Pyrite | |
| | | | | | 594' |
| | | 600' | | | |
| | | | | | Volcanics: As Above |
| 60 | | | | | 605' |
| | | 610' | | | |
| | | | | Fracture Zone Serpentine And Occasional Pyrite | |
| | | | | Large (½") Orthoclase Phenocrysts | Granite-Gneiss: As Above. Very Coarse Granitic Component Locally (≤2'). |
| | | | | Specimen | |

# NEWPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD

SCALE

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY L. McTRAGH

HOLE NO.
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 8 OF 10

| ASSAYS Cu PPM | ASSAYS Au oz/ton | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|
| | | | | 630' Biotite & Sericite (<1%) | |
| | | | | Rare Fe | |
| | | | | | Volcanics: As above. |
| | | | | ← Purple Grain | |
| | | | | Well Lineated | |
| | | 665' | | ← Specimen | |
| 20 | | | | | Granite - Gneiss: As above. Texture Varies From Coarse Grain Equigranular To Coarse Grain Segregations. Gneiss Component Contains Much Chlorite and Occasional Epidote. Stringers On Fractures. Relatively Few Fractures. Very Sparse Pyrite, No Cu. Sulphide Confined To Gneiss Component |
| | | 695' | | Pyrite Fe | |
| | | | | Well Lineated | |
| | | | | | 773' |
| | | | | Specimen | |
| | | | | | Volcanics: As above. Predominantly Mafic Or Non Layered As Previously. |
| | | | | Sericite | |
| | | | | Chlorite | |

# [illegible]FORT EXPLORATION COMPANY

DIAMOND DRILL RECORD

SCALE

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY L. M. [illegible]

HOLE NO. Black [illegible]
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 9 OF 10

| ASSAYS | | | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|
| | Cu PPM | Au oz/ton | | | | |
| | | | | | 720 | |
| | | | | | Granitic Texture | |
| | | | | | Zeolitic Or Volcanics Crescimel | Volcanics: As Above. |
| | | | | | Bleached | |
| | | | 770' | | | |
| | | | | | | 771' |
| | | | | | Well To Stratified | "Hybrid": As Above. Rock Shows Greater Amalgament Of Minerals. |
| | | | 775' | | | |
| | | | | | | 775' |
| | | | | | Volcanics | |
| | | | | | [illegible] Texture | |
| | | | | | | Summary: As Above. Equivalent To The [illegible] Pacific Tuffaceous Facies Of The [illegible] |

FREEPORT EXPLORATION COMPANY

DIAMOND DRILL RECORD

SCALE 1" = 10'

DIRECTION N 27° E
INCLINATION 7°
STARTED Jan 1969
COMPLETED Feb 1969
DEPTH 833
NOTES BY L. M. Tyler

HOLE NO. Black Butte #2
PROPERTY Black Butte
LOCATION Maricopa County, Ariz.
COLLAR COORD. N. _____ E. _____
COLLAR ELEV. _____
SHEET 10 OF 13

| ASSAYS | | | | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|---|---|---|
| | Cu pct | Au oz/ton | | | | 815' Contact Indistinct | Granite: As Above. |
| | | | | | | Slightly Porphyritic-Hornblende | 814' |
| | | | | | | ← Specimen | |
| | | | | | | Silicified And Partially Brecciated | |
| | | | | 820' | | | |
| | | | | | | | Volcanics: As Above. Andesitic But Lighter In Color Than Overlying Rock. Very Hard. Phenocrysts Small (<2mm) – Amphibole. |
| | | | | 825' | | Silicified | |
| | | | | | | Contact Indistinct | 827' |
| | | | | | | Slight Foliation | |
| | | | | | | Moderate To Strong Foliation ← Specimen | Granite: As Above. Medium Grain (≈2mm) And Shows Some Foliation. Aplitic texture. |
| | | | | | | | 837' |
| | | | | | | | Volcanics: As Above. Andesitic. |
| | | | | | | | Granite: As Above |
| | | | | | | Strong Foliation | |
| | | | | | | | Volcanics: As Above |
| | | | | | | Red Jasper Fragments | |
| | | | | | | Strong Texture | |
| | | | | 850 | | ← Specimen | Granite: As Above. Fine Grain. Strong Foliation. Quartz, No Sulfide Crystals. Aplitic |

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Phoenix, Ariz.
85021

EXPLORATI N
COMPANY

OND DRILL RECORD
CALE 20'=1"

DIRECTION
INCLINATION Ve E
STARTED
COMPLETED
DEPTH 0' - 18 '
NOTES BY L. T RALA

HOLE NO Empire Hole
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 1 OF 3

| SSAYS | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|
| | | | High Angle Narrow Fractures Containing Calcite Some py In Fractures. | Volcanics — Dark Brownish-Green Aphanitic Groundmass With Med Grain Phenocrysts (<5mm) Of Altered Hornblende(?). Many Phenocrysts Contain A Center Of Unknown White Material. Groundmass Made Up (50%) Acicular Feldspar Crystals With No Orientation. Rock Generally Competent. |
| | 20 | | Vague Phenocrysts | |
| | | | Euhedral Q In Fractures | "Hybrid" — Rock Having Features Of Both The Volcanics And Intrusive. Light Colored With Vague Phenocrysts. Groundmass Minerals Not Recognizable, But Not Aphanitic. Rock Moderately Fractured. No Sulphides. |
| | 40 | | Mangenese (minor) And Iron Oxides Present Both Specularite & Hematite. Hematite Rust-Red In Color | Intrusive — Light Colored Medium-Grain Equigranular Granitic Rock. Grain Boundaries Indistinct. Quartz Grains Clear To Grey And Unaltered. Feldspars Show Clay Alteration. Rock Conspicuously Low In Mafic Content. Rock Well Fractured. No Sulphides |
| | 60 | | | |
| | 80 | | py In Fractures, Most Veinlets Contain Calcite And/or Iron Oxides | "Hybrid" — Similar To Above Rock Moderately Fractured Rust-Red Iron Stained Fractures. No Sulphides |
| | 100 | | Epidote Staining To Appear As Alteration Of Feldspars. Iron Oxide Staining Yellow-Red py Common In Fractures Core In This Section Varying To "Hybrid" Texture | Volcanics — Similar To Above Phenocrysts Less Altered. Groundmass Almost Totally Aphanitic. Epidote Occasionally Occurring As Disseminations Rather Than Fracture Staining. Most Fractures Either Parallel To Core Axis Or 30° From It. Pyrite In Fractures. |
| | 120 | | | |
| | 140 | | Core Well Fratured And Iron Stained | |
| | | | > 2' Volcanic Sequence | Intrusive — Similar To Above Description. Rock Has A Predominant Granitic Texture, Sometimes Porphyritic Fracturing Best Described As Crackled; Fractures Outline Grains Of Quartz And Feldspar |
| | 160 | | Staining Is Yellow-Red | |

EXPLORATION COMPANY

DIAMOND DRILL RECORD
SCALE 20' = 1"

DIRECTION _____ HOLE NO. EMP. # 1.
INCLINATION _____ PROPERTY _____
STARTED _____ LOCATION _____
COMPLETED _____ COLLAR COORD. N. _____ E. _____
DEPTH _____ COLLAR ELEV. _____
NOTES BY L. TYRALA SHEET 2 OF 3

| SAYS | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|
| | | | | INTRUSIVE CONT'D — OCCASIONAL GRAINS OUTLINE BY DARK GREEN MINERAL (CHLORITE(?)). NO SULPHIDES |
| | 200 | | | "HYBRID" - SAME AS BEFORE |
| | | | GOETHITE IN FEW FRACTURES | |
| | 220 | | | |
| | 240 | | | |
| | | | | DIABASE(?) - FINE-GRAIN MAFIC ROCK WITH SHARP CONTACTS |
| | 260 | | ROCK SHOWS SOME FOLIATION | INTRUSIVE - ROCK BECOMING MORE COMPETENT. ARGILLIC ALTERATION DECREASING. GRAIN BOUNDARIES MORE DISTINCT, BUT STILL EQUIGRANULAR. NO SULPHIDES. |
| | 280 | | | |
| | 300 | | CRUDE GNEISSIC TEXTURE | |
| | 320 | | IRON STAINING BROWN COLOR. NO py OR OTHER SULPHIDES | VOLCANICS — OPHITIC TEXTURE. MORE CHLORITE PRESENT. FRACTURES AT 30° TO CORE AXIS EXCEPT FOR OCCASIONAL VERTICAL FRACTURES. NO SULPHIDES. |
| | 340 | | | |

EXPLORATI
COMPANY

MOND DRILL RECORD
SCALE

DIRECTION
INCLINATION
STARTED
COMPLETED
DEPTH
NOTES BY L. TERALA

NO. EMP 1
PROPERTY
LOCATION
COLLAR COORD. N. E.
COLLAR ELEV.
SHEET 3 OF 3

| ASSAYS | SECTION | COLUMN | DETAIL NOTES | GENERALIZED NOTES |
|---|---|---|---|---|
| | 380 | | GOETHITE IN MANY FRACTURES | |
| | 400 | | IRON STAINING VARIABLE IN COLOR | INTRUSIVE - "HYBRID" — ROCK VARIES FROM A DISTINCT INTRUSIVE AS DESCRIBED BEFORE TO THE "HYBRID" ROCK DESCRIBED BEFORE. NO SULPHIDES. |
| | | | | VOLCANICS.— SAME AS EARLIER. NO SULPHIDES. |
| | 420 | | | "HYBRID" — SAME AS EARLIER. NO SULPHIDES. |
| | 440 | | | VOLCANICS — SAME AS ABOVE. |
| | 454.0 | | SULPHIDES - py, cpy | INTRUSIVE — HAS CRUDE FOLIATION, OTHERWISE SAME DESCRIPTION AS EARLIER. SULPHIDES PRESENT. |

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Phoenix, Ariz.,
85021

Puppy Dog C[illegible]ms T2S-R7W (BV [illegible] Ale)

# Vancouver Petrographics Ltd.

JAMES VINNELL, Manager
JOHN G. PAYNE, Ph.D. Geologist

P.O. BOX 39
8887 NASH STREET
FORT LANGLEY, B.C.
VOX 1JO

PHONE (604) 888-1323

FEB 12 1985

Invoice 5031

Report for: E. Buhlmann,
Silver Hart Mines Ltd.,
209 Strathcona Place - 320 Sioux Road,
Sherwood Park, Alberta,
T8A 3X6.

February 7, 1985

Samples: 0210 to 0215 inclusive.

Summary:

The samples are quartz-monzonites and porphyritic andesites (flows and subvolcanic intrusives). The monzonites been altered by sericite and kaolinite (argillic alteration). The andesite have also been affected by argillic alteration but much more intensely. Pervasive carbonate alteration is later and has affected both the extrusives and intrusives. There is a zone of intense carbonate alteration at the contact of the monzonite and an andesite flow. Quartz-carbonate (malachite) veinlets occur in the andesites. The samples are grouped as follows:

A) QUARTZ-MONZONITE: 0211, 0214.

These are very similar rocks consisting of a hypidiomorphic intergrowth of about equal amounts of quartz, plagioclase and microcline. Muscovite is a minor constituent. The plagioclase in 0211 has been altered to sericite and kaolinite; in 0214 alteration is mainly sericite and carbonate also occurs.

B) ANDESITE PORPHYRY: 0210, 0212, 0213.

These may be subvolcanic rocks and consist of large plagioclase phenocrysts within a plagioclase groundmass. Quartz occurs in small patches amongst the plagioclase groundmass in samples 0212 and 0213, but is more common in 0212. 0210 contains less phenocrysts and very little quartz. Pervasive alteration is intense in all of these. Kaolinite and sericite replace the plagioclase phenocrysts and groundmass in 0210 and 0213 with kaolinite dominant in the latter and sericite dominant in the former. Both contain quartz-malachite veinlets. Pervasive carbonate (with fine hematite) has altered sample 0212 as well as kaolinite-sericite.

(continued)

DEPARTMENT MINERAL RESOURCES
MINERAL BLDG. FAIR GROUNDS
PHOENIX, ARIZONA 85007

DONATED 4/85 BY HAROLD BEST

Summary (cont.)

C) MONZONITE - ANDESITE CONTACT: 0215.

There is a sharp contact between a relatively siliceous phase of the quartz-monzonite and a porphyritic andesite flow. Argillic alteration has affected both the intrusive and extrusive, more intensely in the volcanic. Carbonate has been introduced along the contact.

A. L. Littlejohn

A. L. Littlejohn, M.Sc.

0210: ALTERED ANDESITE PORPHYRY WITH QUARTZ-MALACHITE VEIN.

This sample is a porphyritic andesitic rock consisting of euhedral plagioclase phenocrysts scattered about a fine grained plagioclase groundmass. It has been intensely altered with sericite and kaolinite so that the original fabric has been largely obscured. A quartz-malachite vein is present. Minerals are:

| | |
|---|---|
| plagioclase | 16% |
| sericite | 58 |
| kaolinite | 20 |
| quartz | 2 |
| quartz vein | 1 |
| malachite | 2 |
| hematite | 1 |
| Fe-Ti oxide | minor |
| mineral X | trace |

The original rock consisted of about 15% euhedral plagioclase phenocrysts 0.5 to 2.5mm in size which are scattered about a groundmass of shapeless to rounded plagioclase grains about 0.1 to 0.2mm in size. Small amounts of quartz are intergrown with the plagioclase and in a few places aggregates of a few grains occur.

Alteration is intense and consists mainly of sericite forming a matted aggregate of very fine flakes intimately mixed with kaolinite in places. Small ragged streaky patches of sericite occur within the finer sericite - kaolinite mixture. The grain margins of the plagioclase have been obscured and only vague outlines of the original fabric remain in diffuse patches. In these the sericite forms thin ragged flakes less than 0.05mm in length disseminated within the plagioclase. The phenocrysts have been more intensely sericitised than the groundmass and in these it forms a compact mass of extremely fine flakes. Sericitization is accompanied by the development of extremely fine Fe-Ti oxides which pepper the rock.

In the vein, which is about 2.5mm wide, quartz forms idiomorphic grains 0.1 to 0.4mm in size. The malachite forms small patches of fine grains which occur between the quartz grains. There are also well-formed subprismatic grains up to 0.2mm in size. In the core of the malchite patches there are sometimes subcubic grains of hematite (perhaps sulphide ?) and these occur scatetred in parts of the rock also. Patches of fine hematite occur between quartz grains and around malchite patches at the edge of the vein. In the core of one of the malchite patches there is an unknown mineral which is probabaly a carbonate also (cerussite ???). A few thin quartz stringers occur in the rock away from the main vein.

0211: QUARTZ-MONZONITE.

This sample is a medium grained, massive, equigranular, leucocratic intrusive rock consisting mainly of a hypidiomorphic-granular intergrowth of quartz, plagioclase and microcline. Moderate pervasive argillic alteration has occured resulting in the formation of sericite and kaolinite in the plagioclase. There is a fracture filled with hematite and sericite. Minerals are:

| | |
|---|---|
| quartz | 34% |
| plagioclase | 28 |
| microcline | 26 |
| sericite | 7 |
| kaolinite | 3 |
| muscovite | 2 |
| hematite | minor |
| Fe-Ti oxide | trace |

Quartz forms rounded, or occasionally irregularly shaped, grains 0.2 to 1.0mm in size which are intergrown with subhedral to shapeless feldspar grains between 0.5 and 1.5mm in size. The plagioclase tends to be smaller than the microcline. Small quartz grains often occur sandwiched between the feldspars and several of the plagioclase grains contain fine wormy inclusions of quartz. The microcline is moderately perthitic with fine stringers and blebs. Muscovite is a primary constituent and it forms broad flakes 0.1 to 0.5mm in size occuring in small clusters between the quartz and feldspar grains. In places it forms a fine graphic intergrowth with quartz.

Pervasive alteration has affected the rock. The plagioclase is rather cloudy and fine ragged flakes of sericite occur disseminated within all of them. Some are quite highly sericitic and clusters of thin flakes up to 0.1mm in length sometimes occur. It also occurs in thin hairline fractures within all the minerals and between the grains. Patches of fine sericite sometimes occur around and within muscovite clusters. Extremely fine Fe-Ti oxides, sometimes in fine streaky aggregates, occur in the sericitic patches and stringers; small clusters occur in the muscovite. The sericite is sometimes associated with kaolinite but most of the kaolinite forms a mass of fine flakey grains less than 0.05mm in size which have replaced plagioclase. Intergranular kaolinite is sometimes present.

Most of the hematite in the rock occurs in a fracture filling about 1mm wide where it is intimately mixed with sericite and some clay. The quartz and feldspars in this have been granulated and the sericite and hematite form a fine network around the brecciated grains and replace them.

0212: ALTERED QUARTZ-ANDESITE PORPHYRY.

This sample originally consisted of euhedral plagioclase phenocrysts within a mass of fine plagioclase and a small amount of quartz. Pervasive alteration has obscured the grain margins. Kaolinite is the dominant alteration mineral, associated with some sericite. Carbonate alteration ahs also occured and this is associated with hematite. The carbonate may be sideritic although the surface of the rock does react with dilute HCl; perhaps the hematite has been derived in part from the carbonate during weathering (??). Minerals are:

| | | |
|---|---|---|
| plagioclase | 40% | |
| kaolinite | 20 | |
| carbonate | 16 | |
| quartz | 10 | |
| hematite | 8 | (including some Fe-Ti oxides) |
| sericite | 6 | |
| apatite | minor | |

The original rock consisted of about 25% plagioclase phenocrysts in a matrix of fine plagioclase and quartz. They phenocrysts are euhedral and range in size from 0.5 to 2.0mm, averaging about 1.5mm. The groundmass consists of a mixture of fine laths about 0.05mm in length and more shapeless grains up to 0.2mm in size. Quartz is sometimes intergrown with the shapeless plagioclase but most occurs in shapeless patches up to 1.5mm in size which consist of irregularly shaped grains 0.05 to 0.3mm in size. A few plagioclase laths are intergrown with the quartz and may be partly included within it. Tabular apatite grains 0.05 to 0.1mm in length are disseminated amongst the groundmass plagioclase.

Alteration has been quite intense and is pervasive so that the fabric is obscured. Kaolinite forms extremely fine grains occuring in an interconnected fine patchy network around and within the groundmass plagioclase. Thin ragged sericite flakes less than 0.05mm in length are scattered throughout the rock. Occasional flakes up to 0.2mm in size are present. Carbonate alteration has also occured and forms extremely fine grains, also occuring in a patchy interconnected network within and between the grains. It may be intimately mixed with the clay and sericite. Fine ragged hematite is mixed with the carbonate; grains and aggregates up to 0.1mm in size are scattered throughout. Some of these are hematitic rutile. The plagioclase phenocrysts tend to be more hematitic and carbonatitic than the groundmass. The carbonate may be intimately mixed with the clay and sericite.

0213: ALTERED ANDESITE PORPHYRY WITH QUARTZ-MALACHITE VEIN.

This sample originally consisted of plagioclase euhedral phenocrysts of plagioclase scattered throughout a fine grained groundmass of plagioclase. Pervasive sericite-kaolinite alteration ahs occured, obscuring the grain margins and texture. Veins containing quartz and malachite cut through it. Minerals are:

| | |
|---|---|
| plagioclase | 24% |
| sericite | 30 |
| kaolinite | 48 |
| quartz | 5 |
| quartz vein | 1 |
| malachite | 2 |
| hematite | minor |
| Fe-Ti oxide | minor |
| apatite | trace |

The original rock consisted of about 15% euhedral plagioclase phenocrysts 0.5 to 2.0mm in size within a groundmass of fine plagioclase and minor quartz. The groundmass plagioclase forms shapeless or sometimes lath-like grains about 0.1mm in size and is intergrown with small amounts of subrounded quartz which is evenly distributed throughout. A few tabular apatite grains up to 0.2mm in size are scattered amongst the groundmass plagioclase.

Intense pervasive alteration has resulted in the development of extremely fine kaolinite and sericite within the plagioclase so that grain margins and the fabric are obscured. The kaolinite and sericite are often intimately mixed although thin ragged flakes of sericite up to 0.05mm in size are disseminated throughout the fine mixture. Ragged aggregates up to 0.3mm in length occur in places. The phenocrysts are more intensely altered than the groundmass and tend to be more sericitic. Extremely fine Fe-Ti oxides are disseminated throughout. These sometimes form ragged aggregates and clusters up to 0.2mm in size.

The quartz-malachite veins are usually less than 0.3mm wide although there is one about 1mm wide and this also contains hematite at the edges. The thinner ones are discontinuous and contain little malachite. The quartz forms subidiomorphic grains 0.05 to 0.3mm in size and is intergrown with patches of fine malachite. Malachite also occurs in small ragged patches up to 0.2mm in size which are scattered throughout the rock. Hematite is also scattered about the rock and forms rounded grains up to 0.1mm in size.

0214: QUARTZ-MONZONITE.

This sample is a medium grained, massive, equigranular, leucocratic intrusive rock consisting mainly of a hypidiomorphic intergrowth of quartz, plagioclase and microcline. Pervasive argillic alteration has occured and the plagioclase is quite highly sericitic. Clays are rare. Carbonate alteration has also occurs and occurs in small patches amongst the sericite. The carbonate is stained brownish with Fe and has quite high relief. It may be siderite. There is a narrow shear zone and some strain has developed in the quartz, indication moderate deformation. Minerals are:

| | |
|---|---|
| quartz | 36% |
| plagioclase | 24 |
| microcline | 22 |
| sericite | 14 |
| muscovite | 3 |
| carbonate | 2 |
| hematite | trace |
| Fe-Ti oxide | trace |
| zircon | trace |
| apatite | trace |

The quartz and feldspars form a granular intergrowth of subrounded or subhedral grains which are mostly 0.6 to 2.0mm in size. Small quartz grains are sometimes partly included in the feldspars. Forming a narrow partial network around aggregates of these there is zone of finer quartz and feldspars which are more intimately intergrown. Some of this material is primary but some may have formed as a result of deformation since there is a shear zone about 1mm wide which consists of an intergrowth of fine recrytallised quartz and feldspar. The quartz is moderately strained throughout the rock. Muscovite is a primary constituent and forms broad ragged flakes 0.2 to 0.8mm in length which occur in clusters between the quartz and felspar. A fine graphic intergrowth of quartz and muscovite sometimes occurs. Accessories are zircon and rare apatite, forming grains about 0.1mm in size occuring between the quartz and feldspars.

Pervasive alteration has resulted in sericitization of the plagioclase, and to some extent, the microcline. It forms ragged flakes less than 0.05mm in length which are scattered within the plagioclase or completely replacing it. Fractures in the feldspars are filled with sericite. Intergranular sericite occurs throughout. Discontinuous stringers are common. In places there are small patches of extremely fine sericite which have replaced both feldspar and quartz. This is particularly common in the finer material and the shear zone is highly sericitic. The muscovites are sometimes partly sericitized. Extremely fine Fe-Ti oxides occur in small clusters within the sericite and also the muscovite. Traces of kaolinite and fine patches of hematite occur with the intergranular sericite.

Carbonate alteration appears to be after the sericite. It forms ragged grains les than 0.05mm in size occuring in shapeless patches up to 1mm in size scattered within the sericitic parts or within relatively fresh feldspars. Fine intergranular and hairline fracture-filling carbonate also occurs.

0215: QUARTZ-MONZONITE - PORPHYRITIC ANDESITE CONTACT.

This sample consists of quartz monzonite in contact with a porphyritic andesite. The quartz monzonite consists of an intergrowth of quartz, plagioclase and microcline. It is moderately altered by sericite. The andesite consists of small plagioclase phenocrysts set in a fine grained plagioclase-cryptocrystalline matrix. It has been altered by sericite and clays. The contact is quite sharp. Along the contact there is a zone of intense carbonate alteration (Fe-calcite ?; it does react with dilute acid) which has obscured any thermal effects of the intrusive on the volcanic.

Minerals in the monzonite are:

| | |
|---|---|
| quartz | 34% |
| plagioclase | 20 |
| microcline | 22 |
| sericite | 14 |
| muscovite | 6 |
| hematite | 2 |
| carbonate | 2 |
| zircon | trace |

Quartz forms rounded to irregularly shaped grains 0.2 to 2.0mm in size. The feldspars occur in a patchy network around the larger quartz grains and form shapeless to subhedral grains 0.2 to 1.0mm in size. The microcline is slightly perthitic. They are intergrown with smaller quartz grains. The quartz is moderately strained. Muscovite forms ragged flakes 0.2 to 1.5mm in length which are intergrown with the feldspars and tend to occur in clusters. Accessories are a few small zircons amongst the feldspars and quartz.

Alteration has resulted in the formation of sericite within the feldspars, particularly plagioclase. It is rather coarse.sericite, forming flakes up to 0.1mm in length. It is disseminated or forms clusters in the feldspar often where it is associated with muscovite.

Carbonate alteration has affected a zone a few millimeters wide at the contact although some carbonate occurs throughout the section. It forms fine grains occuring in small ragged subangular patches, up to 0.5mm in size, between the quartz and feldspar grains. Sericite and muscovite tend to be enclosed by carbonate. Near the contact there are many fine fracture-fillings and small patches within the plagioclase. The carbonate is associated with streaks and small patches of hematite, particularly at the contact.

Minerals in the andesite are:

| | | |
|---|---|---|
| plagioclase phenocrysts | 40% | (98% altered to sericite, less clay) |
| cryptocrystalline | 20 | |
| sericite | 20 | |
| carbonate | 15 | (10% near the contact) |
| hematite | 5 | |

(continued)

0215 (continued).

Plagioclase phenocrysts are euhedral and vary in size from 0.2 to 1.5mm, averaging about 0.6mm. They are almost all completely altered to a mixture of fine sericite and kaolinite, with sericite dominant by far. In a few of the larger phenocrysts there are patches of a brownish clay.

The groundmass consists of an extremely fine cryptocrystalline material (glass? clay?) along with fine plagioclase laths which have been altered. Extremely fine sericite occurs within the cryptocrystalline material and this mixture in intensely pepperred with ragged hematite grains about 0.01mm in size. Small clusters and aggregates of hematite occur.

As well as the sericite-clay alteration there has been carbonate alteration which has been introduced along the contact. Within 2 - 3mm of the contact the groundmass has been entirely replaced by a compact mass of fine carbonate intensely stained with hematite. Patches of carbonate occur in many of the phenocrysts and are replacing the edges of most of them. There is a veinlet about 0.3mm wide of clear carbonate (calcite) within the contact zone. The intensity of carbonate alteration decreases away from the contact but ragged patches and specks of carbonate occur throughout.

CREST RESOURCES, INC.
P.O. Box 495
Apache Junction, Arizona 85220
(602) 983-1215

Please put this info on file —

Puppy Dog Claims #1-53
T. 2S R 7W G+SRM
Maricopa County, Webb Dist

RECEIVED
SEP 13 1984
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

Thank you —

Beverly Seat

RECEIVED
B.L.M. AZ STATE OFFICE
AUG 18 1983
7:45 A.M.
PHOENIX, ARIZONA

83 318024

EXHIBIT A

Those certain unpatented mining claims situated in the Wells Mining District, Maricopa County, Arizona located in Sections 10, 13, 14, and 15, Township 2 South, Range 7 West, G&SRM, the locations notices of which are recorded in the office of the County Recorder of Maricopa County, the Book, Page and BLM serial numbers are as follows:

| Name of Claim | Book | Page | BLM Serial No. | Sec. |
|---|---|---|---|---|
| Puppy Dog #1 | 16114 | 26 | A MC 183110 | 14 |
| Puppy Dog #2 | 16114 | 27 | 183111 | 14 |
| Puppy Dog #3 | 16114 | 28 | 183112 | 14 |
| Puppy Dog #4 | 16114 | 29 | 183113 | 14 |
| Puppy Dog #5 | 16114 | 30 | 183114 | 14 |
| Puppy Dog #6 | 16114 | 31 | 183115 | 14 |
| Puppy Dog #7 | 16114 | 32 | 183116 | 14 |
| Puppy Dog #8 | 16114 | 33 | 183117 | 14 |
| Puppy Dog #9 | 16114 | 34 | 183118 | 14 |
| Puppy Dog #10 | 16114 | 35 | 183119 | 14 |
| Puppy Dog #11 | 16114 | 36 | 183120 | 14 |
| Puppy Dog #12 | 16114 | 37 | 183121 | 14 |
| Puppy Dog #13 | 16114 | 38 | 183122 | 14 |
| Puppy Dog #14 | 16114 | 39 | 183123 | 14 |
| Puppy Dog #15 | 16114 | 40 | 183124 | 14 |
| Puppy Dog #16 | 16114 | 41 | 183125 | 14 |
| Puppy Dog #17 | 16114 | 42 | 183126 | 14 |
| Puppy Dog #18 | 16114 | 43 | 183127 | 14 |
| Puppy Dog #19 | 16114 | 44 | 183128 | 14 |
| Puppy Dog #20 | 16114 | 45 | 183129 | 14 |
| Puppy Dog #21 | 16114 | 46 | 183130 | 14 |
| Puppy Dog #22 | 16114 | 47 | 183131 | 14 |
| Puppy Dog #23 | 16114 | 48 | 183132 | 14 |
| Puppy Dog #24 | 16114 | 49 | 183133 | 14 |
| Puppy Dog #25 | 16114 | 50 | 183134 | 14 |
| Puppy Dog #30 | 16114 | 55 | 183139 | 14 |
| Puppy Dog #31 | 16114 | 56 | 183140 | 14 |
| Puppy Dog #32 | 16114 | 57 | A MC 183141 | 13 |
| Puppy Dog #33 | 16114 | 58 | 183142 | 13 |
| Puppy Dog #34 | 16114 | 59 | 183143 | 13 |
| Puppy Dog #35 | 16114 | 60 | 183144 | 13 |
| Puppy Dog #36 | 16114 | 61 | 183145 | 13 |
| Puppy Dog #47 | 16114 | 72 | 183156 | 13 |
| Puppy Dog #48 | 16114 | 73 | 183157 | 13 |
| Puppy Dog #49 | 16114 | 74 | 183158 | 13 |

EXHIBIT A Cont.

83 318024

| Name of Claim | Book | Page | BLM Serial No. | Sec. |
|---|---|---|---|---|
| Puppy Dog #26 | 16114 | 51 | A MC 183135 | 15 |
| Puppy Dog #27 | 16114 | 52 | 183136 | 15 |
| Puppy Dog #28 | 16114 | 53 | 183137 | 15 |
| Puppy Dog #29 | 16114 | 54 | 183138 | 15 |
| Puppy Dog #37 | 16114 | 62 | 183146 | 15 |
| Puppy Dog #38 | 16114 | 63 | 183147 | 15 |
| Puppy Dog #39 | 16114 | 64 | A MC 183148 | 14 |
| Puppy Dog #40 | 16114 | 65 | 183149 | 14 |
| Puppy Dog #41 | 16114 | 66 | 183150 | 14 |
| Puppy Dog #42 | 16114 | 67 | 183151 | 14 |
| Puppy Dog #43 | 16114 | 68 | 183152 | 14 |
| Puppy Dog #44 | 16114 | 69 | 183153 | 14 |
| Puppy Dog #45 | 16114 | 70 | 183154 | 14 |
| Puppy Dog #46 | 16114 | 71 | 183155 | 14 |
| Puppy Dog #50 | 16114 | 75 | A MC 183159 | 10 |
| Puppy Dog #51 | 16114 | 76 | 183160 | 10 |
| Puppy Dog #52 | 16114 | 77 | 183161 | 10 |
| Puppy Dog #53 | 16114 | 78 | 183162 | 10 |

RECEIVED
B.L.M. AZ STATE OFFICE

AUG 18 1983

7:45 A.M.
PHOENIX, ARIZONA

# CORE DRILLING - BEDROCK LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project | Puppy Dog | Commenced | | Corr. Dip | -45° | Hor. Comp. | |
| Location | Arizona | Completed | | True Bearing | | Vert. Comp. | |
| District | Maricopa County | Lat. | | Core Size | NQ | % Recovery | 70.0 |
| Contractor | M & B Drilling Ltd. | Dep. | | Length | 105.0 ft | Collar Dip | |
| Claim | | Elev. Collar | | Comments | | | |

RHYOLITE RESOURCES INC.

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % | |
| 0 | | | | | | | -0.0 t0 9.0 ft- No Core ( overburden, rubble ) | QUARTZ MONZONITE (9.0 to 52.0 ft)<br>-m.g., lt pinkish grey, reddish brn ox in fracs & envelopes<br>-sericitic w/ little chloritic alt, some mafics, grey Quartz<br>-some Malachite, w/ reddish brn ox along frac, black min (possibly Calcocite in some areas) | | | -high to mod fractured, random orientation to fracs<br>-core highly bkn to 72.0 ft | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 10 | | 10.0 | 9.0 | 10 | | | | | | | | 10.0 | 1.0 | 20728 | .003 | .10 | .019 | |
| | | 13.5 | 2.3 | 34 | | | | | | | | | | | | | | |
| 15 | | 16.0 | 1.3 | 63 | | | | | | | | 16.0 | 6.0 | 20729 | .001 | .03 | .058 | |
| | | 19.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 20 | | | | | | | -21.0 ft- Malachite staining | | | | | 21.0 | 5.0 | 20730 | .001 | .04 | .140 | |
| | | 22.5 | 0.0 | 100 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ NOTE : Hole No. 83-AZ-5

Date August 21, 1983 Date _____ All angles measured from core axis Page 1 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 25 | | 26.0 | 0.5 | 86 | | | | QUARTZ MONZONITE continued | | | | 26.0 | 5.0 | 20731 | .001 | .02 | .103 |
| | | 28.5 | 1.4 | 44 | | | | | | | | | | | | | |
| 30 | | 31.0 | 1.0 | 60 | | | | | | | | 31.0 | 5.0 | 20732 | .001 | .01 | .019 |
| | | 33.5 | 0.9 | 64 | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | 36.0 | 5.0 | 20733 | .006 | .06 | .099 |
| | | 38.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 40 | | 41.0 | 1.0 | 67 | | | | | | | | 41.0 | 5.0 | 20734 | .001 | .01 | .009 |
| | | 44.5 | 0.6 | 83 | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | 46.0 | 5.0 | 20735 | .001 | .01 | .003 |
| | | 47.5 | 1.7 | 57 | | | | | | | | | | | | | |
| 50 | | 49.5 | 1.0 | 50 | | | | | | | | | | | | | |
| | | 51.0 | 0.2 | 87 | | | | | | | | 52.0 | 6.0 | 20736 | .001 | .02 | .008 |
| | | 53.5 | 0.3 | 88 | | | | PORPHYRITIC VOLCANIC DYKE (52.0 to 56.0) -f.g., highly alt w/ clay alt, lt reddish brn, dk reddish brn ox in frac | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-5

Date August 21, 1983 Date _____ Location Arizona Page 2 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 55 | | 56.5 | 1.7 | 43 | | | | PORPHYRITIC VOLCANIC DYKE cont. | | | | 56.0 | 4.0 | 20737 | .001 | .04 | .009 |
| | | 59.0 | 1.5 | 40 | | | | QUARTZ MONZONITE (56.0 to 105.0 ft) -see general description for Quartz Monzonite at 9.0 to 52.0 ft | | | | | | | | | |
| 60 | | 61.5 | 1.0 | 60 | | | | | | | | 61.5 | 5.5 | 20738 | .001 | .04 | .007 |
| 65 | | 66.5 | 3.4 | 32 | | | | | | | | 66.5 | 5.0 | 20739 | .001 | .06 | .018 |
| 70 | | 70.0 | 0.9 | 74 | | | | | | | | | | | | | |
| | | 72.0 | 0.0 | 100 | | | | ← -73.0 ft- Malachite staining, Calcocite? | | | | 72.0 | 5.5 | 20740 | .001 | .02 | .019 |
| 75 | | 75.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 80 | | 80.0 | 0.0 | 100 | | | | | | | | 80.0 | 8.0 | 20741 | .001 | .02 | .091 |
| 85 | | 85.0 | 0.0 | 100 | | | | | | | | 85.0 | 5.0 | 20742 | .001 | .01 | .018 |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-5

Date August 21, 1983 Date _____ Location Arizona Page 3 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 85 | | | | | | | | QUARTZ MONZONITE continued | | | -85.0 to 95.0 ft- increased amt of frac w/ reddish brn ox | | | | | | |
| 90 | | 90.0 | 0.0 | 100 | | | | | | | | 90.0 | 5.0 | 20743 | .001 | .02 | .028 |
| 95 | | 95.0 | 0.0 | 100 | | | | -94.0 to 94.5 ft- Porphyritic Volcanic Dykelet dk grn w/ reddish brn alt, white feld phenocrysts | | | | 95.0 | 5.0 | 20744 | .002 | .03 | .019 |
| 100 | | 100.0 | 0.8 | 84 | | | | | | | | | | | | | |
| 105 | | 105.0 | 1.0 | 80 | | | | | | | | 105.0 | 10.0 | 20745 | .002 | .02 | .039 |
| | | | | | | | | END OF HOLE @ 105.0 ft | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-5

Date August 21, 1983 Date _____ Location Arizona Page 4 of 4

# CORE DRILLING - BEDROCK LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project | Puppy Dog | Commenced | | Corr. Dip | -90° | Hor. Comp. | |
| Location | Arizona | Completed | | True Bearing | | Vert. Comp. | |
| District | Maricopa County | Lat. | | Core Size | NQ | % Recovery | 92.3 |
| Contractor | M & B Drilling | Dep. | | Length | 102.0 | Collar Dip | |
| Claim | | Elev. Collar | | Comments | | | |

RHYOLITE RESOURCES INC.

## DRILLING INFORMATION

| Depth (ft) | Elev. (ft) | Run | Short | % recovery |
|---|---|---|---|---|
| 0 | | | | |
| 5 | | | | |
| | | 7.0 | 5.4 | 23 |
| 10 | | | | |
| | | 12.0 | 0.0 | 100 |
| 15 | | | | |
| | | 17.0 | 0.6 | 88 |
| 20 | | | | |
| | | 22.0 | 0.0 | 100 |
| 25 | | | | |

## LITHOLOGY

| Weath | Foliation/ Bedding | Particular | General | Graphic Log (Lith.) |
|---|---|---|---|---|
| | | -0.0 to 5.4 ft- No Core overburden, weathered rk | RUBBLE (0.0 to 7.0 ft) -pieces ground by drill | |
| | | -5.4 to 6.4 ft- Quartz veins, entirely Quartz rubble | | |
| | | -6.4 to 7.0 ft- min rubble w/ same description as following rk | | |
| | | -7.0 to 10.0 ft- heavy min | MINERALIZED MAFIC DYKE (7.0 to 13.0 ft) -f.g., dk grn, alt to reddish brn, highly frac & min near contacts -Malachite, reddish brn ox, lt grn alt, chrysocolla & blk ox | |
| | | -10.0 to 12.0 ft- little min | | |
| | | -12.0 to 13.0 ft- heavy min along fracs | | |
| | | | QUARTZ MONZONITE (13.0 to 17.0 ft) -m.g., alt to pale grn & reddish brn, chloritic w/ some sericitic alt, reddish brn ox in fracs | |
| | | | MAFIC DYKE (17.0 to 19.5 ft) -f.g., dk grn alt to reddish brn, reddish brn ox in fracs | |
| | | | QUARTZ MONZONITE (19.5 to 24.5 ft) -see general description for Quartz Monzonite at 13.0 to 17.0 ft | |
| | | | PORPHYRITIC VOLCANIC (24.5 to 27.0) | |

## ROCK MASS STRUCTURE

| Graphic Log (Struc.) | STRUCTURE DESCRIPTION |
|---|---|
| | |
| | -7.0 to 10.0 ft- highly frac & brecciated throughout |
| | -10.0 to 12.0 ft- massive, few fracs |
| | -mod frac |
| | TOP CONTACT- Malachite min -mod frac BOTTOM CONTACT- 20° |
| | |

## SAMPLING INFORMATION

| Interval Sampled | Length (ft) | Sample No. | Au oz/ton | Ag oz/ton | Cu % |
|---|---|---|---|---|---|
| 7.0 | 1.6 | 20716 | .001 | .08 | .378 |
| 10.0 | 3.0 | 20717 | .018 | .10 | 2.495 |
| 12.0 | 2.0 | 20718 | .018 | .06 | .902 |
| 17.0 | 5.0 | 20719 | .001 | .01 | .281 |
| 19.5 | 2.5 | 20720 | .001 | .02 | .153 |
| 24.5 | 5.0 | 20721 | .001 | .01 | .130 |

Logged by A. J. White Checked by

Date August 21, 1983 Date

NOTE: All angles measured from core axis

Hole No. 83-AZ-4

Page 1 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 25 | | 27.0 | 0.3 | 94 | | | PORPHYRITIC VOLCANIC continued - f.g. to aphanitic groundmass w/ cser feld phenocrysts, reddish brn ox in fracs, rk is entirely alt to reddish brn & lt grn | | | | TOP CONTACT- 30°, ireg<br>-BOTTOM CONTACT- 65°, pl<br>-rk highly frac | 27.0 | 2.5 | 20722 | .001 | .01 | .099 |
| 30 | | 32.0 | 0.3 | 94 | | | | QUARTZ MONZONITE (27.0 to 37.0 ft)<br>-see general description for Quartz Monzonite at 13.0 to 17.0 ft | | | | 32.0 | 5.0 | 20723 | .001 | .01 | .070 |
| 35 | | 37.0 | 0.0 | 100 | | | | | | | | 37.0 | 5.0 | 20724 | .001 | .01 | .029 |
| 40 | | 41.5 | 0.0 | 100 | | | -37.0 to 39.8 ft- reddish brn w/ some lt grn alt<br>-39.8 to 40.8 ft- lt grn alt<br>-40.8 to 43.5 ft- lt reddish brn alt<br>-43.5 to 45.5 ft- alt to lt grn | PORPHYRITIC VOLCANIC (37.0 to 87.0)<br>-f.g. to aphanitic groundmass w/ cser feld & some mafic phenocrysts, reddish brn ox & Quartz in fracs<br>-unalt rk is grn, reddish brn alt is pervasive & is assoc w/ frac, feld phenocrysts are alt to dk reddish brn<br>-low to mod frac, rehealed | | | -TOP CONTACT- 20°, pl<br>-37.0 to 39.8 ft- mod frac<br>-39.8 to 40.8 ft- highly frac<br>-40.8 to 43.5 ft- mod frac | 42.0 | 5.0 | 20725 | .001 | .07 | .032 |
| 45 | | 46.5 | 0.0 | 100 | | | -45.5 to 48.3 ft- alt to lt reddish brn | | | | -43.5 to 45.5 ft- highly frac at both ends of section<br>-45.5 to 48.3 ft- mod frac | 48.3 | 6.3 | 20726 | .001 | .03 | .040 |
| 50 | | 52.0 | 0.0 | 100 | | | -48.3 to 51.3 ft- alt to lt grn<br>-51.3 to 52.5 ft- alt to reddish brn<br>-52.5 to 53.5 ft- alt to lt grn | | | | -48.3 to 51.3 ft- mod frac<br>-52.5 to 53.5 ft- frac at 30° | 53.5 | 5.2 | 20727 | .001 | .08 | .031 |
| 55 | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-4

Date August 21, 1983 Date _____ Location Arizona Page 2 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 55 | | 56.0 | 0.0 | 100 | | | | PORPHYRITIC VOLCANIC continued | | | | | | | | | |
| | | | | | | | -53.5 to 84.0 ft- alt to reddish brn | | | | -53.5 to 84.0 ft- low frac, frac oriented at 30° | | | | | | |
| 60 | | 61.0 | 0.0 | 100 | | | | | | | | | | | | | |
| | | 63.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | | | | | |
| | | 68.5 | 0.0 | 100 | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | | | |
| 75 | | 76.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 80 | | 81.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 85 | | 85.0 | 0.3 | 93 | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-4

Date August 21, 1983 Date _____ Location Arizona Page 3 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 85 | | | | | | | -84.0 to 87.0 ft- alt to lt grn w/ some reddish brn alt | PORPHYRITIC VOLCANIC continued | | | -84.0 to 87.0 ft- mod frac near contact | | | | | | | |
| | | 89.0 | 0.6 | 85 | | | | QUARTZ MONZONITE (87.0 to 102.0 ft) -m.g., lt pinkish grey, reddish brn ox in most fracs & envelopes -sericitic alt w/ little chloritic alt, few mafics, grey Quartz | | | -mod frac -fracs planar to curvipl w/ random orientation | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | |
| | | 92.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 95 | | | | | | | | | | | | | | | | | | |
| | | 96.5 | 0.0 | 100 | | | | | | | | | | | | | | |
| | | 99.5 | 0.0 | 100 | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | |
| | | 102.0 | 0.4 | 84 | | | | | | | | | | | | | | |
| | | | | | | | | END OF HOLE @ 102.0 ft | | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-4

Date August 21, 1983 Date _____ Location Arizona Page 4 of 4

# CORE DRILLING - BEDROCK LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project | Puppy Dog | Commenced | | Corr. Dip | -45° | Hor. Comp. | |
| Location | Arizona | Completed | | True Bearing | | Vert. Comp. | |
| District | Maricopa County | Lat. | | Core Size | NQ | % Recovery | 78.9 |
| Contractor | M & B Drilling | Dep. | | Length | 96.0 ft | Collar Dip | |
| Claim | | Elev. Collar | | Comments | | | |

RHYOLITE RESOURCES INC.

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 0 | | | | | | | 0.0 to 9.6 ft- No Core overburden | ANDESITIC TUFF ( 9.5 to 21.5 ft )<br>-lt grn w/ white & mafic shards<br>-mod soft, reddish brn ox on frac surfaces<br>-avg shard size 1mm, few > 5mm | | | -few fracs | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 10 | | 10.0 | 9.6 | 4 | | | -9.6 to 12.0 ft- rubble | | | | | | | | | | |
| | | 13.5 | 0.5 | 86 | | | -12.0 to 13.5 ft- unalt tuff | | | | | 13.5 | 3.9 | 20584 | .001 | .08 | .009 |
| 15 | | | | | | | -13.5 to 16.0 ft- f.g., dk grn | | | | | | | | | | |
| | | 17.0 | 1.7 | 51 | | | | | | | | | | | | | |
| | | 19.0 | 0.3 | 85 | | | -16.0 to 21.5 ft- stained w/ reddish brn ox | | | | | | | | | | |
| 20 | | | | | | | | | | | | 21.5 | 8.0 | 20585 | .002 | .07 | .008 |
| | | 23.0 | 0.0 | 100 | | | | BRECCIATED ZONE (21.5 to 24.0 ft)<br>-alt to lt reddish brn, included tuff frags, red/ brn ox in frac & matrix | | | -highly frac & brecciated | 24.0 | 2.5 | 20586 | .002 | .06 | .029 |
| 25 | | | | | | | | MAFIC PORPHYRY (24.0 to 28.0 ft) | | | | | | | | | |

Logged by A. J. White Checked by _____ NOTE : Hole No. 83-AZ-6

Date August 25, 1983 Date _____ All angles measured from core axis Page 1 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % | |
| 25 | | | | | | | | MAFIC PORPHYRY continued<br>-see general description of Mafic Porphyry at 28.7 to 56.0 ft | | | | | | | | | | |
| | | 28.0 | 0.0 | 100 | | | -27.5 to 28.0 ft- highly alt, f.g. lt grn | | | | | 28.0 | 4.0 | 20587 | .003 | .04 | .058 | |
| | | | | | | | TOP CONTACT- 30° | | | | -BOTTOM CONTACT-ireg | 28.7 | 0.7 | 20588 | .012 | .02 | .112 | |
| 30 | | | | | | | -29.3 to 30.5 ft- alt to reddish brn, reddish brn ox in fracs | BRECCIATED ZONE (28.0 to 28.7 ft)<br>-highly alt mafic porphyry frags, Barite, Malachite<br>MAFIC PORPHYRY (28.7 to 56.0 ft)<br>-f.g. to aphanitic groundmass<br>-dk grn w/ cser white feld phenocrysts, mod soft<br>-reddish brn ox in fracs, reddish brn ox penetrating unfrac rk in some sections | | | -29.3 to 30.5 ft- intensdy frac, rehealed<br>-mod fractures | | | | | | | |
| | | 33.0 | 0.0 | 100 | | | | | | | | 33.0 | 4.3 | 20589 | .001 | .03 | .012 | |
| | | 34.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 35 | | | | | | | -33.0 to 43.0 ft- alt to grn and to lt grn, reddish brn ox in frac | | | | -33.0 to 43.0 ft- mod frac, ireg frac orientation, frac rehealed | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | |
| | | 42.0 | 0.0 | 100 | | | | | | | | 43.0 | 10.0 | 20590 | .002 | .03 | .063 | |
| | | | | | | | -43.0 to 43.8 ft- reddish brn ox | | | | -43.0 to 43.8 ft- highly frac, oriented at 25° | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | | |
| | | 47.5 | 0.0 | 100 | | | | | | | | | | | | | | |
| 50 | | | | | | | -50.0 ft- Brecciated Zone | | | | | 50.0 | 7.0 | 20591 | .002 | .09 | .017 | |
| | | 53.0 | 0.2 | 96 | | | | | | | | | | | | | | |
| 55 | | | | | | | -54.2 ft- Brecciated Zone | | | | | | | | | | | |

Logged by A. I. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-6

Date August 25, 1983 Date _____ Location Arizona Page 2 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % | |
| 55 | | | | | | | | MAFIC PORPHYRY continued | | | | | | | | | | |
| | | | | | | | | QUARTZ MONZONITE (56.0 to 73.5 ft)<br>-f.g., lt pinkish grey<br>-reddish brn ox throughout along frac planes & envelopes, and speckled throughout rk, some lt grn alt throughout, some sericitic alt<br>-some f.g. mafics | | | -mod to highly frac | 56.0 | 6.0 | 20592 | .001 | .01 | .003 | |
| | | 58.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | 61.0 | 5.0 | 20593 | .002 | .02 | .016 | |
| | | 63.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 65 | | 65.0 | 0.5 | 75 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 68.5 | 7.5 | 20594 | .001 | .02 | .012 | |
| 70 | | 70.0 | 0.2 | 94 | | | | | | | | | | | | | | |
| | | 72.5 | 0.4 | 84 | | | | | | | | | | | | | | |
| | | 74.0 | 0.0 | 100 | | | | | | | | 73.5 | 5.0 | 20595 | .001 | .01 | .018 | |
| 75 | | | | | | | | PEGMATITE (GRANITIC) (73.5 to 96.0)<br>-c.g., lg Quartz phenocrysts avg 5mm, grey Quartz, overall colour lt pinkish grey<br>-highly alt felds have sericitic alt resulting in claylike powder btwn Quartz xtals, high chloritic alt<br>-negligible mafics<br>-occassional ireg Quartz stringers | | | -core is highly bkn & crumbly | | | | | | | |
| | | 77.0 | 0.5 | 83 | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | 80.0 | 6.5 | 20596 | .001 | .01 | .002 | |
| | | 82.5 | 2.7 | 51 | | | | | | | | | | | | | | |
| 85 | | 85.0 | 0.5 | 80 | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-6

Date August 25, 1983 Date _____ Location Arizona Page 3 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 85 | | | | | | | | PEGMATITE continued | | | | | | | | | | |
| | | 88.5 | 1.5 | 57 | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | |
| | | 92.0 | 0.5 | 86 | | | | | | | | | | | | | | |
| 95 | | 95.0 | 1.2 | 60 | | | | | | | | | | | | | | |
| | | 96.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| | | | | | | | | END OF HOLE @ 96.0 ft | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-6

Date August 25, 1983 Date _____ Location Arizona Page 4 of 4

# CORE DRILLING - BEDROCK LOG

| | | | |
|---|---|---|---|
| Project: Puppy Dog | Commenced: | Corr. Dip: -45° | Hor. Comp.: |
| Location: Arizona | Completed: | True Bearing: | Vert. Comp.: |
| District: Maricopa County | Lat.: | Core Size: NQ | % Recovery: 80.2 |
| Contractor: M & B Drilling Ltd. | Dep.: | Length: 95.0 ft | Collar Dip: |
| Claim: | Elev. Collar: | Comments: | |

RHYOLITE RESOURCES INC.

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION: Particular | ROCK DESCRIPTION: General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS: Au oz/ton | ANALYSIS: Ag oz/ton | ANALYSIS: Cu % |
| 0 | | | | | | | -0.0 to 9.5 ft- No Core, overburden | QUARTZ MONZONITE (9.5 to 40.0 ft)<br>-m.g., lt pinkish grey, reddish brn ox & brn xtals in fracs, abdt sericitic alt, grey Quartz<br>-negligible mafics<br>-rare Malachite staining | | | -mod to highly bkn, rehealed | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 10 | | 10.0 | 9.5 | 5 | | | | | | | -9.5 to 16.0 ft- rubble, bkn core | | | | | | |
| 15 | | 15.0 | 4.3 | 14 | | | | | | | | 16.0 | 6.5 | 20597 | .001 | .02 | .001 |
| 20 | | 20.0 | 1.0 | 80 | | | | | | | -16.0 to 25.5 ft- highly frac and bkn core | 20.0 | 4.0 | 20598 | .001 | .01 | .008 |
| 25 | | 25.0 | 0.5 | 90 | | | -24.5 ft- Malachite staining | | | | | 25.0 | 5.0 | 20599 | .001 | .01 | .019 |

Logged by: A. J. White
Date: August 25, 1983
Checked by:
Date:
NOTE: All angles measured from core axis
Hole No: 83-AZ-7
Page 1 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 25 | | | | | | | | QUARTZ MONZONITE continued | | | | | | | | | |
| | | 28.0 | 0.0 | 100 | | | -28.0 to 29.0 ft- Brecciated Zone @ 30°, abdt Quartz | | | | -25.5 to 40.0 ft- mod frac & bkn core | | | | | | |
| 30 | | 30.0 | 0.8 | 60 | | | | | | | | 30.0 | 5.0 | 20600 | .002 | .01 | .060 |
| 35 | | 35.0 | 0.5 | 90 | | | | | | | | 35.0 | 5.0 | 20651 | .001 | .02 | .058 |
| | | 37.5 | 0.0 | 100 | | | | BRECCIATED ZONE (40.0 to 41.2 ft) -rehealed w/ brn xtals, brn & blk ox, frags are alt Quartz Monzonite | | | | | | | | | |
| 40 | | 40.0 | 0.0 | 100 | | | | | | | | 40.0 | 5.0 | 20652 | .002 | .03 | .018 |
| | | | | | | | | QUARTZ MONZONITE (41.2 to 42.5 ft) see general description for Qtz Monz @ 9.5 to 40.0 ft | | | TOP CONTACT- ireg BOTTOM CONTACT- 45°, ireg | 41.2 | 1.2 | 20653 | .001 | .05 | .016 |
| 45 | | 45.0 | 0.2 | 96 | | | | GRANODIORITE GNEISS (42.5 to 50.0) -see general description for Granodiorite Gneiss @ 58.5 to 95.0 ft, except mafics are 10 to 15 %, foliation is less pronounced | | | | 47.0 | 5.8 | 20654 | .005 | .02 | .006 |
| 50 | | 50.0 | 2.0 | 60 | | | | | | | -49.0 to 50.0 ft- bkn core, rubble | | | | | | |
| | | | | | | | | ANDESITIC DYKE (52.0 to 54.3 ft) f.g. grn, mod frac, ireg contacts, some reddish brn ox in fracs and envelopes | | | | 52.0 | 5.0 | 20655 | .002 | .07 | .018 |
| 55 | | 55.0 | 0.0 | 100 | | | | BRECCIATED ZONE (54.3 to 55.0 ft) | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-7

Date August 25, 1983 Date _____ Location Arizona Page 2 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 55 | | | | | | | | ANDESITIC DYKE (55.0 to 58.5 ft)<br>-f.g., grn, reddish brn ox in frac | | | -mod to highly frac<br>-56.5 ft- contact/ shear zone w/ cavities w/ Qtz xtal linings | 58.5 | 6.5 | 20656 | .002 | .09 | .056 |
| 60 | | 60.0 | 0.0 | 100 | | | -58.5 to 64.5 ft- avg foliation 60° | GRANODIORITE GNEISS (58.5 to 58.5)<br>-20% mafics, foliated<br>-pink felds, grey & white Quartz<br>-m.g.<br>-fracs filled w/ reddish brn ox<br>-many contacts btwn foliations of different angles<br>-some brxx zones w/ brn xtals btwn frags<br>-many feld alt to lt reddish brn | | | -mod to highly frac, many ireg hairline fracs, rehealed | 63.5 | 5.0 | 20657 | .001 | .04 | .026 |
| 65 | | 65.0 | 0.0 | 100 | | | -64.5 to 66.5 ft- Brecciated Zone | | | | | 66.5 | 3.0 | 20658 | .001 | .08 | .004 |
| 70 | | 70.0 | 0.0 | 100 | | | -69.5 to 70.7 ft- Andesite Dyke | | | | -70.7 to 73.0 ft- highly frac & rehealed | | | | | | |
| 75 | | 75.0 | 0.0 | 100 | | | -73.0 to 78.0 ft- avg foliation 70° | | | | | | | | | | |
| 80 | | 80.0 | 0.0 | 100 | | | -78.0 to 84.5 ft- rk has few mafics and appears like Quartz Monzonite | | | | -78.0 to 84.5 ft- mod to highly frac | | | | | | |
| 85 | | 85.0 | 0.0 | 100 | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-7

Date August 25, 1983 Date _____ Location Arizona Page 3 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 85 | | | | | | | | GRANODIORITE GNEISS continued | | | | | | | | | | |
| 90 | | 90.0 | 0.0 | 100 | | | | 84.5 to 92.5 ft- avg foliation @ 60° | | | | | | | | | | |
| | | | | | | | | -92.5 to 95.0 ft- avg foliation @ 20° | | | | | | | | | | |
| 95 | | 95.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| | | | | | | | | END OF HOLE @ 95.0 ft. | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-7

Date August 25, 1983 Date _____ Location Arizona Page 4 of 4

# CORE DRILLING - BEDROCK LOG

| | | | |
|---|---|---|---|
| Project: Puppy Dog | Commenced: | Corr. Dip: -60° | Hor. Comp.: |
| Location: Arizona | Completed: | True Bearing: | Vert. Comp.: |
| District: Maricopa County | Lat.: | Core Size: NQ | % Recovery: 44.2 |
| Contractor: M & B Drilling Ltd. | Dep.: | Length: 101.0 ft. | Collar Dip: |
| Claim: | Elev. Collar: | Comments: | |

RHYOLITE RESOURCES INC.

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION: Particular | ROCK DESCRIPTION: General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS: Au oz/ton | ANALYSIS: Ag oz/ton | ANALYSIS: Cu % | |
| 0 | | | | | | | -0.0 to 7.0 ft- No Core overburden, rubble | CALICHE (7.0 to 18.5 ft)<br>-pieces w/ angular frags of various composition- eg. Andesitic, Quartz Monzonitic, Porphyritic- cemented w/ beige calcite and sand<br>-avg frag size 1 to 2cm | | | | | | | | | | |
| 5 | | 8.0 | 7.0 | 13 | | | | | | | | | | | | | | |
| | | 9.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| | | 13.0 | 3.2 | 20 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | |
| | | 18.0 | 4.5 | 10 | | | | | | | | 18.5 | 11.5 | 20667 | .001 | .02 | .003 | |
| 20 | | | | | | | | QUARTZ MONZONITE (18.5 to 67.0 ft)<br>-m.g., lt pinkish grey, pink & white felds, grey quartz<br>-many fracs have reddish brn ox infilling, negligible mafics<br>-mod to highly alt throughout (sericitic & chloritic alt) Chlorite on frac surfaces, alt to lt grn throughout in many sections | | | -mod to highly frac, hairline fracs rehealed | | | | | | | |
| | | 21.0 | 1.7 | 43 | | | -21.0 to 23.0 ft- brxx, Quartz infilling | | | | | | | | | | | |
| | | 24.0 | 0.0 | 100 | | | | | | | | 23.0 | 4.5 | 20668 | .001 | .01 | .001 | |
| 25 | | | | | | | | | | | | | | | | | | |

Logged by: A. J. White — Checked by: — NOTE: — Hole No. 83-AZ-9

Date: August 30, 1983 — Date: — All angles measured from core axis — Page 1 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 25 | | 27.0 | 0.2 | 93 | | | -24.0 to 27.0 ft- reddish QUARTZ MONZONITE continued brn ox throughout | | | | -24.0 to 27.0 ft- highly frac | 28.0 | 5.0 | 20669 | .001 | .01 | .002 |
| 30 | | 31.0 | 2.2 | 45 | | | | | | | | | | | | | |
| | | 33.0 | 0.5 | 75 | | | | | | | | 33.5 | 5.5 | 20670 | .001 | .02 | .002 |
| 35 | | 38.0 | 0.0 | 100 | | | | | | | | 38.0 | 4.5 | 20671 | .001 | .01 | .010 |
| 40 | | 41.0 | 2.0 | 33 | | | | | | | -41.0 to 51.0 ft- bkn core, rubble | | | | | | |
| | | 46.0 | 3.5 | 30 | | | | | | | | 46.0 | 8.0 | 20672 | .001 | .01 | .092 |
| 50 | | 51.0 | 4.3 | 14 | | | | | | | | | | | | | |
| | | 53.5 | 1.2 | 52 | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-9

Date August 30, 1983 Date _____ Location Arizona Page 2 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 55 | | 56.0 | 0.7 | 72 | | | | QUARTZ MONZONITE continued | | | | 56.0 | 10.0 | 20673 | .001 | .02 | .215 |
| 60 | | 61.0 | 0.7 | 86 | | | | | | | -58.5 to 61.5 ft- bkn core, rubble | 61.0 | 5.0 | 20674 | .002 | .01 | .035 |
| | | 63.0 | 0.4 | 80 | | | | | | | | | | | | | |
| 65 | | 66.0 | 0.9 | 70 | | | | | | | -66.0 to 67.0 ft- bkn core, rubble | 67.0 | 6.0 | 20675 | .001 | .01 | .024 |
| 70 | | 71.0 | 0.0 | 100 | | | | QUARTZ MONZONITE (67.0 to 76.5 ft)<br>-f.g., felds almost entirely alt to lt grn or reddish brn (v.f.g.)<br>-negligible mafics<br>-fracs filled w/ reddish brn ox, ireg<br>-white Quartz<br>-chloritic & sericitic alt | | | -mod frac, frac rehealed<br>-70.5 to 72.5 ft- bkn core, rubble | 72.0 | 5.0 | 20676 | .001 | .01 | .006 |
| 75 | | 76.0 | 0.0 | 100 | | | | | | | | 76.5 | 4.5 | 20677 | .029 | .01 | .006 |
| 80 | | 81.0 | 3.8 | 24 | | | | RUBBLE (SHAFT W/ DEBRIS?)<br>(76.5 to 101.0 ft)<br>-Quartz Monzonite rubble- same as in both previous descriptions | | | | | | | | | |
| 85 | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-9

Date August 30, 1983 Date _____ Location Arizona Page 3 of 4

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | ANALYSIS Cu % |
| 85 | | | | | | | | RUBBLE continued | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | |
| | | 94.0 | 12.7 | 2 | | | | | | | | | | | | | |
| 95 | | | | | | | | | | | | | | | | | |
| 100 | | 101.0 | 6.9 | 1 | | | | | | | | 101.0 | 24.5 | 20678 | .005 | .01 | .035 |
| | | | | | | | | END OF HOLE @ 101.0 ft. | | | | | | | | | |
| 105 | | | | | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | | | |
| 115 | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-9

Date August 30, 1983 Date _____ Location Arizona Page 4 of 4

# CORE DRILLING - BEDROCK LOG

| | | | |
|---|---|---|---|
| Project: Puppy Dog | Commenced: | Corr. Dip: -60° | Hor. Comp.: |
| Location: Arizona | Completed: | True Bearing: | Vert. Comp.: |
| District: Maricopa County | Lat.: | Core Size: NQ | % Recovery: 83.3 |
| Contractor: M & B Drilling | Dep.: | Length: 75.0 ft. | Collar Dip: |
| Claim: | Elev. Collar: | Comments: | |

RHYOLITE RESOURCES INC.

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION: Particular | ROCK DESCRIPTION: General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS: Au oz/ton | ANALYSIS: Ag oz/ton | ANALYSIS: Cu % | |
| 0 | | | | | | | | QUARTZ MONZONITE (9.0 to 12.0 ft)<br>-m.g., lt pinkish grey w/ lt grn chloritic alt, fracs filled w/ reddish brn ox & brn xtals (Fe?)<br>-few mafics | | | -highly frac, frac ireg, rehealed | | | | | | | |
| 5 | | | | | | | -0.0 to 9.0 ft- No Core overburden | | | | | | | | | | | |
| 10 | | 10.0 | 9.0 | 10 | | | -9.0 to 10.0 ft- bkn core, rubble | | | | | | | | | | | |
| | | 12.0 | 0.0 | 100 | | | | | | | -Contact- 30°, ireg | 12.0 | 3.0 | 20659 | .001 | .07 | .001 | |
| 15 | | 16.0 | 0.0 | 100 | | | | GRANODIORITE (12.0 to 19.4 ft)<br>-m.g.<br>-dk grey overall w/ grey Quartz, pink & white felds, most felds stained orange<br>-slight foliation in some areas | | | | | | | | | | |
| | | 19.0 | 0.0 | 100 | | | | | | | | 19.4 | 7.4 | 20660 | .001 | .04 | .001 | |
| 20 | | 21.0 | 0.0 | 100 | | | | QUARTZ MONZONITE (19.4 to 21.0 ft) see general description for Qtz Monz @ 9.0 to 12.0 ft | | | -TOP CONTACT- gradational<br>-BOTTOM CONTACT- 30°, ireg | | | | | | | |
| | | | | | | | | GRANODIORITE (21.0 to 23.5 ft)<br>-same general description as Granodiorite @ 12.0 to 19.4 ft | | | | 23.5 | 4.1 | 20661 | .002 | .02 | .002 | |
| 25 | | | | | | | | QUARTZ MONZONITE (23.5 to 31.0 ft) | | | | | | | | | | |

Logged by: A. J. White
Date: August 26, 1983
Checked by:
Date:
NOTE: All angles measured from core axis
Hole No.: 83-AZ-8
Page 1 of 3

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 25 | | 26.0 | 0.0 | 100 | | | | QUARTZ MONZONITE continued<br>-f.g., lt pinkish grey w/ pervasive lt grn chloritic alt, abdt sericitic alt, fracs filled w/ reddish brn ox, blk ox, brn xtals, occasional Malachite staining<br>-little mafics | | | | | | | | | |
| | | 27.5 | 0.0 | 100 | | | | | | | -highly frac, fracs ireg, rehealed | 27.0 | 3.5 | 20662 | .002 | .05 | .020 |
| 30 | | 31.0 | 0.0 | 100 | | | -28.5 ft- Malachite staining<br>-30.0 ft- Malachite staining | | | | | 31.0 | 4.0 | 20663 | .023 | .01 | .408 |
| | | | | | | | | QUARTZ MONZONITE (31.0 to 54.0 ft)<br>-m.g. to c.g., lt pinkish grey, grey Quartz, highly alt w/ clay alt (sericitic), chloritic alt pervasive (lt grn)<br>-frac surfaces have reddish brn ox & blk ox | | | -core is highly bkn & frac & reduced to rubble in many sections | | | | | | |
| 35 | | 36.0 | 1.5 | 70 | | | | | | | | 36.0 | 5.0 | 20664 | .002 | .01 | .038 |
| | | 38.0 | 0.5 | 75 | | | | | | | | | | | | | |
| 40 | | 41.0 | 0.5 | 83 | | | | | | | | 41.0 | 5.0 | 20665 | .003 | .01 | .013 |
| | | 43.0 | 0.5 | 75 | | | | | | | | | | | | | |
| 45 | | 46.5 | 0.0 | 100 | | | | | | | | 46.0 | 5.0 | 20666 | .002 | .01 | .002 |
| 50 | | 51.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 55 | | | | | | | | GRANODIORITE GNEISS (54.0 to 65.5) | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-8

Date August 26, 1983 Date _____ Location Arizona Page 2 of 3

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 55 | | 56.0 | 0.5 | 90 | | | | GRANODIORITE GNEISS continued<br>-10 to 15 % mafics, foliated<br>-pink & white feldspars<br>-grey & white Quartz<br>-m.g. to c.g.<br>-fracs filled w/ reddish brn ox | | | -mod frac, frac ireg, rehealed<br>-contacts btwn foliations of diff angles present | | | | | | | |
| 60 | | 61.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 65 | | 66.0 | 0.0 | 100 | | | | QUARTZ MONZONITE (65.5 to 70.0 ft)<br>-see general description for Quartz Monzonite @ o.o to 12.0 ft | | | | | | | | | | |
| 70 | | 70.0 | 0.0 | 100 | | | -68.0 to 70.0 ft- brxx, rehealed w/ brn min/ blk ox | MAFIC VOLCANIC DYKE (70.0 to 75.0)<br>-f.g. to aphanitic, dk grey grn,<br>-fracs rehealed w/ Calcite, mod hard, some reddish brn ox in fracs & envelopes | | | -few fracs | | | | | | | |
| 75 | | 75.0 | 0.0 | 100 | | | | END OF HOLE @ 75.0 ft. | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-8

Date August 26, 1983 Date _____ Location Arizona Page 3 of 3

# CORE DRILLING - BEDROCK LOG

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Project | Puppy Dog | Commenced | | Corr. Dip | -45° | Hor. Comp. | |
| Location | Arizona | Completed | | True Bearing | | Vert. Comp. | |
| District | Maricopa county | Lat. | | Core Size | NQ | % Recovery | 88.0 |
| Contractor | M&B Drilling Ltd. | Dep. | | Length | 123.0 | Collar Dip | |
| Claim | | Elev. Collar | | Comments | | | |

RHYOLITE RESOURCES INC.

## DRILLING INFORMATION

| Depth (ft) | Elev. (ft) | Run | Short | % recovery |
|---|---|---|---|---|
| 0 | | | | |
| 5 | | | | |
| | | 9.0 | 7.0 | 22 |
| 10 | | | | |
| | | 13.0 | 0.7 | 83 |
| | | 16.0 | 0.0 | 100 |
| 20 | | 20.0 | 0.5 | 88 |
| 25 | | 25.0 | 1.0 | 80 |

## LITHOLOGY

Weath | Foliation/Bedding

### ROCK DESCRIPTION

**Particular**

-0.0 to 7.0 ft- No Core, overburden

-7.0 to 9.0 ft- bkn core, rubble

-10.4 to 13.5 ft- entirely alt to reddish brn

-17.0 to 23.0 ft- entirely alt to lt grn, phenocrysts have reddish brn halo

-24.0 to 25.0 ft- highly alt, reddish brn ox

**General**

VOLCANIC PORPHYRY (7.0 to 24.0 ft)
-f.g. to aphanitic groundmass w/ a few cser mafic & feld phenocrysts
-reddish brn weathering in frac
-unalt rk is dk grn, reddish brn alt is assoc w/ frac and penetrates unfrac rk, some sections alt to lt reddish grn and lt grn

QUARTZ MONZONITE (24.0 to 55.0 ft)

Graphic Log (Lith.)

## ROCK MASS STRUCTURE

Graphic Log (Struc.)

### STRUCTURE DESCRIPTION

-mod to highly frac, rehealed,
-core mod to highly bkn

-10.4 to 13.5 ft- highly frac and bkn core

-17.0 to 23.0 ft- highly frac and sheared, esp at both ends of section

-24.0 to 25.0 ft- highly frac & brxx

## SAMPLING INFORMATION

| Interval Sampled | Length (ft) | Sample No. | Au oz/ton | Ag oz/ton | Cu % |
|---|---|---|---|---|---|
| 9.0 | 2.0 | 20746 | .001 | .03 | .017 |
| 13.0 | 4.0 | 20747 | .010 | .04 | .111 |
| 17.0 | 4.0 | 20748 | .003 | .05 | .076 |
| 20.0 | 3.0 | 20749 | .015 | .02 | .149 |
| 24.0 | 4.0 | 20750 | .002 | .03 | .038 |

Logged by A. J. White
Date August 15, 1983
Checked by
Date

NOTE : All angles measured from core axis

Hole No. 83-AZ-2
Page 1 of 5

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % | |
| 25 | | | | | | | | QUARTZ MONZONITE continued<br>-m.g., lt pinkish grey, reddish brn ox in some fracs & envelopes<br>-chloritic alt turning some sections pale grn, Chlorite on many frac surfaces<br>-sericitic alt in varying amts throughout<br>-little mafics, grey Quartz | | | -mod frac, core is mod bkn<br>-fracs planar to curvipl, many oriented at 60° | | | | | | | |
| | | 28.0 | 0.8 | 73 | | | | | | | | 29.0 | 5.0 | 20573 | .002 | .02 | .023 | |
| 30 | | 30.0 | 0.6 | 70 | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | 34.0 | 5.0 | 20574 | .001 | .02 | .013 | |
| | | 36.5 | 0.5 | 92 | | | | | | | | | | | | | | |
| 40 | | 40.0 | 0.0 | 100 | | | | | | | | 39.0 | 5.0 | 20575 | .001 | .02 | .039 | |
| | | 42.5 | 0.0 | 100 | | | | | | | | 44.0 | 5.0 | 20576 | .002 | .04 | .029 | |
| | | 47.5 | 0.0 | 100 | | | | | | | | | | | | | | |
| 50 | | 50.0 | 0.5 | 80 | | | | | | | | 50.0 | 6.0 | 20577 | .003 | .03 | .008 | |
| | | | | | | | | ← -52.0 ft- irregular Quartz veinlets | | | | | | | | | | |
| 55 | | 55.0 | 0.0 | 100 | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-2

Date August 15, 1983 Date _____ Location Arizona Page 2 of 5

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 55 | | | | | | | | QUARTZ MONZONITE continued | | | | | | | | | |
| | | 57.0 | 0.0 | 100 | | | | PORPHYRITIC VOLCANIC (56.0 to 72.5) -f.g. to aphanitic groundmass w/ cser felds phenocrysts -rk is almost entirely alt to reddish brn w/ phenocrysts dker reddish brn, reddish brn ox in some fracs -some lt grn alt | | | -few frac, frac rehealed w/ Quartz -frac oriented at 60° to 70° | 56.0 | 6.0 | 20578 | .002 | .03 | .012 |
| 60 | | 60.0 | 0.0 | 100 | | | -61.5 to 62.3 ft- alt to lt grn | | | | -61.5 to 62.3 ft- highly frac, w/ minor frac | | | | | | |
| 65 | | 65.0 | 0.0 | 100 | | | | | | | | 65.0 | 9.0 | 20579 | .004 | .01 | .012 |
| | | | | | | | -68.0 to 69.0 ft- little alt, dk grn with white & reddish brn phenocrysts | | | | | | | | | | |
| 70 | | 70.0 | 0.0 | 100 | | | -70.0 to 72.5 ft- lt grn and reddish brn alt -72.4 to 72.5 ft- Malachite, reddish brn ox, blue metallic min along contact | | | | -70.0 to 72.5 ft- mod to highly frac | | | | | | |
| | | 72.5 | 0.0 | 100 | | | | | | | | 72.5 | 7.5 | 20580 | .013 | .01 | .049 |
| | | 73.5 | 0.0 | 100 | | | | QUARTZ MONZONITE (72.5 to 123.0ft) -same general description as Quartz Monzonite at 24.0 to 56.0 ft -some sections w/ large amt of chloritic alt to 95.0 ft, rk is lt grn to grn -some minor Malachite staining along frac and in rk | | | | | | | | | |
| | | | | | | | -76.0 to 77.0 ft- high amt of chloritic alt, rk grn | | | | | | | | | | |
| | | 78.5 | 0.0 | 100 | | | | | | | | 77.5 | 5.0 | 20581 | .030 | .02 | .336 |
| 80 | | | | | | | -79.5 to 80.5 ft- high amt of chloritic alt, rk grn | | | | | | | | | | |
| | | 82.5 | 0.0 | 100 | | | | | | | | 82.5 | 5.0 | 20582 | .003 | .02 | .410 |
| 85 | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-2

Date August 15, 1983 Date _____ Location Arizona Page 3 of 5

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 85 | | 85.5 | 0.8 | 73 | | | | QUARTZ MONZONITE continued | | | | | | | | | |
| | | 87.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 90 | | 90.0 | 0.5 | 83 | | | | | | | | 89.0 | 6.5 | 20583 | .002 | .02 | .102 |
| 95 | | 95.0 | 0.0 | 100 | | | | | | | | | | | | | |
| | | 96.5 | 0.0 | 100 | | | | | | | | | | | | | |
| 100 | | 100.0 | 0.0 | 100 | | | | | | | | | | | | | |
| | | 102.5 | 0.0 | 100 | | | | | | | | | | | | | |
| | | 104.5 | 0.0 | 100 | | | | | | | | | | | | | |
| | | 106.5 | 0.0 | 100 | | | | | | | | | | | | | |
| 110 | | 110.0 | 1.0 | 71 | | | | | | | | | | | | | |
| | | 113.5 | 0.3 | 91 | | | | | | | | | | | | | |
| 115 | | | | | | | | -114.5 to 114.9 ft- PORPHYRITIC VOLCANIC DYKLET | | | | | | | | | |

Logged by A. J. White
Date August 15, 1983
Checked by
Date
Project Puppy Dog
Location Arizona
Hole No. 83-AZ-2
Page 4 of 5

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 115 | | | | | | | | QUARTZ MONZONITE continued | | | | | | | | | | |
| | | 117.5 | 0.0 | 100 | | | | -117.0 to 117.3 ft- PORPHYRITIC VOLCANIC DYKLET | | | | | | | | | | |
| 120 | | | | | | | | | | | | | | | | | | |
| | | 123.0 | 1.5 | 73 | | | | | | | | | | | | | | |
| 125 | | | | | | | | END OF HOLE @ 123.0 ft | | | | | | | | | | |
| 130 | | | | | | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | | | | | |
| 145 | | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-2

Date August 15, 1983 Date _____ Location Arizona Page 5 of 5

# CORE DRILLING - BEDROCK LOG

| | | | |
|---|---|---|---|
| Project: Puppy Dog | Commenced: | Corr. Dip: -45° | Hor. Comp.: |
| Location: Arizona | Completed: | True Bearing: | Vert. Comp.: |
| District: Maricopa County | Lat.: | Core Size: NQ | % Recovery: 86.5 |
| Contractor: M&B Drilling Ltd. | Dep.: | Length: 139.0 ft | Collar Dip: |
| Claim: | Elev. Collar: | Comments: | |

RHYOLITE RESOURCES INC.

## DRILLING INFORMATION

| Depth (ft) | Elev. (ft) | Run | Short | % recovery |
|---|---|---|---|---|
| 9.0 | | 5.8 | 36 | |
| 14.0 | | 0.2 | 96 | |
| 15.0 | | 0.0 | 100 | |
| 20.0 | | 0.0 | 100 | |
| 25.0 | | 0.3 | 94 | |

## LITHOLOGY

Weath | Foliation/Bedding | Graphic Log (Lith.)

**ROCK DESCRIPTION**

Particular:

-0.0 to 5.8 ft- NO Core (overburden, rubble)

-5.8 to 7.9 ft- lt grn alt

7.9 to 12.8 ft- mottled lt grn & reddish brn alt

-12.8 to 18.2 ft- lt grn alt

-18.2 to 25.5 ft- reddish brn alt

General:

PORPHORITIC VOLCANIC (5.8 to 60.0)
- f.g. to aphanitic groundmass w/ cser feld phenocrysts
- reddish brn weathering in frac, minor Cu staining in a few fracs
- highly weathered to reddish brn & lt grn throughout
- in reddish brn sections alt is pervasive w/ phenocrysts alt to dker reddish brn than groundmass
- in lt grn section alt is pervasive w/ felds remaining white (chloritic alt)

## ROCK MASS STRUCTURE

Graphic Log (Struc.)

**STRUCTURE DESCRIPTION**

-mod to high frac, rehealed

-18.2 to 25.5 ft- rk has few fracs

## SAMPLING INFORMATION

| Interval Sampled | Length (ft) | Sample No. | Au oz/ton | Ag oz/ton | Cu % |
|---|---|---|---|---|---|
| 12.8 | 7.0 | 20701 | .002 | .01 | .025 |
| 18.2 | 5.4 | 20702 | .011 | .01 | .294 |

Logged by: A.J. White
Date: August 14, 1983
Checked by:
Date:
NOTE: All angles measured from core axis
Hole No. 83-AZ-3
Page 1 of 5

# CORE DRILLING - BEDROCK LOG

**DRILLING INFORMATION**

| Depth (ft) | Elev. (ft) | Run | Short | % Recovery |
|---|---|---|---|---|
| 25 | | | | |
| | | 27.5 | 0.0 | 100 |
| 30 | | | | |
| | | 32.0 | 1.0 | 78 |
| 35 | | | | |
| | | 36.0 | 0.0 | 100 |
| | | 39.0 | 0.3 | 90 |
| 40 | | | | |
| | | 42.0 | 0.3 | 90 |
| | | 45.0 | 0.6 | 80 |
| | | 49.0 | 0.2 | 95 |
| 50 | | 50.0 | 0.0 | 100 |
| 55 | | 55.0 | 0.0 | 100 |

**LITHOLOGY**

| Weath | Foliation/ Bedding | ROCK DESCRIPTION: Particular | ROCK DESCRIPTION: General | Graphic Log (Lith.) |
|---|---|---|---|---|
| | | PORPHYRITIC VOLCANIC continued | | |
| | | -25.5 to 27.8 ft- mod alt to reddish brn w/ cream coloured groundmass, mafic phenocrysts | | |
| | | -27.8 to 28.8 ft- highly alt to lt grn | | |
| | | -28.8 to 33.0 ft- reddish brn phenocrysts w/ lt grn alt groundmass | | |
| | | -33.0 to 37.2 ft- highly alt to lt grn w/ grn phenocrysts, at 34.3 & 36.7 ft Malachite staining w/ assoc blue/grey metallic min | | |
| | | -37.2 to 42.9 ft- reddish brn alt | | |
| | | -42.9 to 47.9 ft- mottled lt grn and reddish brn alt, minor Malachite staining throughout | | |
| | | -47.9 to 60.0 ft- lt grn alt w/ some reddish brn alt, minor Malachite staining throughout | | |

**ROCK MASS STRUCTURE**

| Graphic Log (Struc.) | STRUCTURE DESCRIPTION |
|---|---|
| | |

**SAMPLING INFORMATION**

| Interval Sampled | Length (ft) | Sample No. | ANALYSIS: Au oz/ton | Ag oz/ton | Cu % |
|---|---|---|---|---|---|
| 25.5 | 2.3 | 20703 | .001 | .01 | .021 |
| 27.8 | 2.3 | 20704 | .001 | .01 | .110 |
| 33.0 | 5.2 | 20705 | .017 | .01 | .260 |
| 37.2 | 4.2 | 20706 | .172 | .03 | 5.040 |
| 42.9 | 5.7 | 20707 | .009 | .01 | .093 |
| 47.4 | 4.5 | 20708 | .046 | .01 | .215 |
| 51.0 | 3.6 | 20709 | .161 | .01 | 2.370 |
| 55.0 | 4.0 | 20710 | .279 | .01 | 1.100 |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-3

Date August 14, 1983 Date _____ Location Arizona Page 2 of 5

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 55 | | | | | | | | PORPHYRITIC VOLCANIC continued | | | | | | | | | |
| 60 | | 60.0 | 0.0 | 100 | | | | QUARTZ MONZONITE (60.0 to 112.2) -m.g., lt pinkish grey, reddish brn ox in fracs & envelope, sericitic alt, lt grn (chloritic alt), mod weathered, negligible mafics | | | | 60.0 | 5.0 | 20711 | .001 | .01 | .020 |
| 65 | | 65.0 | 0.0 | 100 | | | | | | | -mod to highly bkn & frac, frac surfaces ireg & curvipl | 65.0 | 5.0 | 20712 | .001 | .01 | .030 |
| | | 67.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 70 | | 70.0 | 1.2 | 60 | | | | | | | | 70.0 | 5.0 | 20713 | .001 | .01 | .012 |
| | | 72.5 | 0.0 | 100 | | | | | | | | | | | | | |
| | | 76.5 | 0.4 | 90 | | | | | | | | 75.0 | 5.0 | 20714 | .001 | .01 | .003 |
| | | 79.0 | 0.7 | 72 | | | | | | | -78.0 to 79.0 ft- core crushed and bkn | | | | | | |
| 80 | | 82.0 | 1.0 | 67 | | | | | | | | 80.0 | 5.0 | 20715 | .001 | .01 | .018 |
| | | 83.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-3

Date August 21, 1983 Date _____ Location Arizona Page 3 of 5

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % |
| 85 | | 86.0 | 0.2 | 93 | | | | QUARTZ MONZONITE continued | | | | | | | | | |
| 90 | | 90.0 | 1.0 | 75 | | | | | | | | | | | | | |
| | | 93.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 95 | | 96.0 | 1.0 | 67 | | | | | | | | | | | | | |
| 100 | | 99.5 | 0.5 | 86 | | | | | | | | | | | | | |
| | | 103.0 | 0.0 | 100 | | | | | | | | | | | | | |
| | | 106.0 | 0.6 | 80 | | | | | | | | | | | | | |
| 110 | | 109.5 | 0.5 | 86 | | | -110.0 to 111.0 ft- mod to highly weathered, friable | | | | | | | | | | |
| | | 113.0 | 0.0 | 100 | | | -112.2 to 113.5 ft- rk alt reddish brn | PORPHYRITIC VOLCANIC(112.2 to126) | | | -contact 50°,rgh, curvpl | | | | | | |
| 115 | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-3

Date August 21, 1983 Date _____ Location Arizona Page 4 of 5

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 115 | | | | | | | -116.0 to 116.5 ft- rk alt lt reddish brn/ lt grn | PORPHYRITIC VOLCANIC continued<br>-f.g. to aphanitic groundmass w/ cser white feld phenocrysts<br>-reddish brn ox in fracs<br>-dk grn w/ some sections alt to reddish brn and to lighter grn | | | -low to mod frac, frac rehealed<br>-few brks in core | | | | | | | |
| | | 118.0 | 0.3 | 94 | | | | | | | | | | | | | | |
| 120 | | | | | | | -118.0 to 123.5 ft- rk alt reddish brn | | | | -118.0 to 123.5 ft- mod frac, fracs ireg | | | | | | | |
| | | 123.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 125 | | | | | | | | QUARTZ MONZONITE (126.0 to 129.5)<br>-see general description for Quartz Monzonite at 60.0 to 112.2 ft | | | 127.0 to 128.0 ft- rubble, bkn core | | | | | | | |
| | | 128.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 130 | | | | | | | | PORPHYRITIC VOLCANIC (129.5 to132)<br>-see general description for Porphyritic Volcanic @ 112.2 to 126.0 | | | -fracs rehealed w/ Quartz<br>-contacts ireg, 80° | | | | | | | |
| | | 133.5 | 0.7 | 87 | | | | QUARTZ MONZONITE (132.0 to 139.0)<br>-see general description for Quartz Monzonite @ 60.0 to 112.2 ft | | | 134.5 to 139.0 ft- many pieces ground by bit | | | | | | | |
| | | 139.0 | 2.0 | 64 | | | | | | | | | | | | | | |
| 140 | | | | | | | | END OF HOLE @ 139.0 ft | | | | | | | | | | |
| 145 | | | | | | | | | | | | | | | | | | |

Logged by A. J. White Checked by _____ Project Puppy Dog Hole No. 83-AZ-3

Date August 21, 1983 Date _____ Location Arizona Page 5 of 5

# CORE DRILLING - BEDROCK LOG

| | | | |
|---|---|---|---|
| Project: Puppy Dog | Commenced: August 6, 1983 | Corr. Dip: -90° | Hor. Comp. |
| Location: Arizona | Completed | True Bearing | Vert. Comp. |
| District: Maricopa County | Lat. | Core Size: NQ | % Recovery: 95.5 |
| Contractor: M&B Drilling Ltd. | Dep. | Length: 204.0 ft. | Collar Dip |
| Claim | Elev. Collar | Comments | |

RHYOLITE RESOURCES INC.

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | Ag oz/ton | Cu % | |
| 0 | | | | | | | -0.0 to 6.8 ft-No Core ( overburden, rubble ) | QUARTZ MONZONITE (6.8 to 22.5 ft)<br>-m.g.,lt. pinkish grey, reddish brn ox in frac and in surrounding rk, sericitic alt, abnt grey qtz xtals, pink felds, lt grn alt in some sections (chloritic alt of feld), negligible mafics.<br>-minor Malachite staining on some frac surfaces.<br>-some grey metallic min | | | -mod bkn & frac, frac surfaces ireg & curvipl. | | | | | | | |
| 5 | | | | | | | -6.8 to 8.0 ft-rubble | | | | | | | | | | | |
| | | 8.0 | 6.8 | 15 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | 10.0 | | 20551 | .001 | .01 | .031 | |
| | | 12.5 | 1.8 | 60 | | | | | | | | | | | | | | |
| 5 | | 15.0 | 0.0 | 100 | | | | | | | | 15.0 | 5.0 | 20552 | .001 | .01 | .029 | |
| 20 | | 20.0 | 0.0 | 100 | | | | | | | | 20.0 | 5.0 | 20553 | .002 | .02 | .068 | |
| | | 22.0 | 0.5 | 75 | | | -sig min with reddish brn Ox along fracs (¼" to ½" wide) with grn Cu staining in envelope | | | | | | | | | | | |
| 25 | | | | | | | | MINERALIZED SECTION (22.5 to 30.5)<br>-Quartz Monzonite host, highly alt frac have mod hard reddish brn | | | | 25.0 | 5.0 | 20554 | .184 | .001 | 1.860 | |

Logged by: A. J. White — Checked by: — NOTE: — Hole No: 83-AZ-1

Date: August 9, 1983 — Date: — All angles measured from core axis — Page 1 of 7

# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION: Particular | ROCK DESCRIPTION: General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS: Au oz/ton | ANALYSIS: Ag oz/ton | ANALYSIS: Cu % | |
| 25 | | 27.0 | 0.0 | 100 | | | -occasional visible gold | MINERALIZED SECTION continued ox infilling & assoc Cu min (Malachite, chrysocolla), rk is almost entirely stained & alt to lt grn, sericitic alt, qtz grains are easily recognizable, feld alt bluish grey metallic min assoc w/ reddish brn ox | | | -highly frac w/ rehealing, -frac ireg | 30.5 | 5.5 | 20555 | .815 | .09 | 6.780 | |
| 30 | | 29.5 | 0.0 | 100 | | | | | | | | | | | | | | |
| | | 32.0 | 0.0 | 100 | | | -32.0 to 33.5 ft increased amt of mafic dk grey, some mottling (6") w/ reddish brn ox top contact @ 40° to core axis | QUARTZ MONZONITE (30.5 to 36.0 ft) -same general description as Qtz Monz at 6.8 to 22.5 ft except the rk is more competent | | | | 34.5 | 4.0 | 20557 | .056 | .01 | .183 | |
| 35 | | 34.5 | 0.0 | 100 | | | | | | | | | | | | | | |
| 40 | | 39.5 | 0.0 | 100 | | | -36.0 to 38.3 ft m.g., Qtz grains easily distinguishable | MINERALIZED SECTION (36.0 to 50.0) -rk is highly alt to lt grey-grn -sericite & clay alt has reduced rk to f.g. ground mass w/ disting Qtz xtals, min is assoc w/ fracs, fracs are filled w/ reddish brn ox w/ assoc Cu min (Malachite, Chrysocolla), small amt of bluish grey metallic min assoc w/ reddish brn ox, rare Chalcopyrite -rare visible gold | | | -fracs are irregular | 38.5 | 4.0 | 20558 | .001 | .01 | .107 | |
| | | 42.0 | 0.0 | 100 | | | -41.0 to 43.0 ft-fracs distinct up to 2" wide, mod to high amt of rehealed fracs, visible gold assoc w/ blue Cu min | | | | | 41.5 | 3.0 | 20559 | .136 | .01 | 1.800 | |
| | | 44.0 | 0.0 | 100 | | | -43.0 to 44.5 ft- large % of core is reddish brn ox | | | | | | | | | | | |
| 45 | | 46.0 | 0.0 | 100 | | | -44.5 to 47.0 ft- lt reddish tan, v. little blue Cu staining | | | | | 45.0 | 3.5 | 20560 | 1.074 | .10 | 5.430 | |
| | | 48.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 50 | | 51.5 | 0.0 | 100 | | | -49.5 to 50.0 ft- m.g., grains distinguishable | | | | | 50.0 | 5.0 | 20561 | .025 | .01 | .078 | |
| | | | | | | | -53.5 to 56.0 ft- blue Cu mins assoc w/frac throughout | QUARTZ MONZONITE (50.0 to 60.0 ft) -same general description as Qtz Monz @6.8 to 22.5 ft, except some sections have blue Cu mins (Malachite, Chrysocolla) -large % of core alt to lt grn (chloritic, sericitic alt) | | | | | | | | | | |
| 55 | | 55.0 | 0.0 | 100 | | | | | | | | 55.0 | 5.0 | 20562 | .071 | .03 | 1.120 | |

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# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | ANALYSIS Cu % |
| 55 | | | | | | | -55.0 to 56.0 ft large amt of dk brn/blk ox in fracs | | | | | | | | | | |
| 60 | | 61.0 | 0.0 | 100 | | | | QUARTZ MONZONITE (60.0 to 112.0) -same general description as Quartz Monzonite @ 6.8 to 22.5 ft, except rk is more competent -some Sericitic alt, occasional minor Quartz stringers | | | | 60.0 | 5.0 | 20563 | .002 | .01 | .975 |
| 65 | | 66.0 | 0.0 | 100 | | | | | | | | 65.0 | 5.0 | 20564 | .001 | .01 | .067 |
| | | 69.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 70 | | 72.0 | 0.0 | 100 | | | | | | | | | | | | | |
| | | | | | | | -75.0 to 76.0 ft- fracs have increased amt of reddish brn ox | | | | | 75.0 | 10.0 | 20565 | .001 | .01 | .030 |
| | | 77 0 | 0.0 | 100 | | | | | | | | | | | | | |
| 80 | | 82.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | 85.0 | 10.0 | 20566 | .001 | .01 | .005 |

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# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | ANALYSIS Cu % |
| 85 | | | | | | | | QUARTZ MONZONITE continued | | | | | | | | | |
| | | 87.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 90 | | | | | | | | -90.0 to 92.0 ft- increased amt of fracs & reddish brn ox, increased amt of serecitic alt | | | | | | | | | |
| | | 92.0 | 0.0 | 100 | | | | -92.0 to 95.0 ft- rk is finer grained & greenish grey | | | | | | | | | |
| 95 | | | | | | | | -95.0 to 97.0 ft- increased amt of fracs and reddish brn ox | | | | 95.0 | 10.0 | 20567 | .001 | .01 | .023 |
| | | 97.0 | 0.0 | 100 | | | | -95.0 to 103.0 ft- rk is predominantly pink, frac at 60° to core axis | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | |
| | | 102.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 105 | | | | | | | | | | | | 105.0 | 10.0 | 20568 | .001 | .01 | .017 |
| | | 107.0 | 0.0 | 100 | | | | | | | | | | | | | |
| 110 | | | | | | | | | | | | | | | | | |
| | | 111.0 | 0.0. | 100 | | | | -110.0 to 113.0 ft- frac rehealed w/ Quartz at 25° to core axis | | | | | | | | | |
| 115 | | | | | | | | | | | | | | | | | |

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# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 115 | | 116.0 | 0.0 | 100 | | | | QUQRTZ MONZONITE continued | | | | | | | | | | |
| 120 | | 119.5 | 0.0 | 100 | | | | | | | | | | | | | | |
| | | 122.0 | 0.0 | 100 | | | -122.2 ft- Quartz Monzonite clast, ang distinct edges, some reddish brn ox | MAFIC DYKE (121.0 to 123.5 ft)<br>-same general description as Mafic Dyke @ 137.0 to 148.2 ft | | | -TOP CONTACT- sharp, pl, 30°<br>-BOTTOM CONTACT- sharp, pl, 50° | | | | | | | |
| 125 | | 127.0 | 0.0 | 100 | | | | QUARTZ MONZONITE (123.5 to 128.5)<br>-same general description as Qtz Monzonite @ 6.8 to 22.5 ft<br>-increased amt of frac w/ assoc reddish brn ox | | | | | | | | | | |
| 130 | | 132.0 | 0.0 | 100 | | | -reddish brn ox throughout | MAFIC DYKE (128.5 to 130.5 ft)<br>-same general description as Mafic Dyke @137.0 to 148.2 ft | | | -TOP CONTACT- sharp, pl, 60°<br>-BOTTOM CONTACT- sharp, ireg, pl, 35° | | | | | | | |
| | | 137.0 | 0.0 | 100 | | | | QUARTZ MONZONITE (130.5 to 137.0)<br>-same general description as Qtz Monzonite @ 6.8 to 22.5 ft | | | | | | | | | | |
| 140 | | 142.0 | 0.0 | 100 | | | -137.0 to 138.5 ft- reddish brn ox | MAFIC DYKE (137.0 to 148.2 ft)<br>-dk grey/grn, f.g. to porphyritic, cser xtals are white felds and cser black granular xtals,<br>-Quartz stringers throughout oriented @ 30°- 40° and ireg<br>-contact zones are f.g., pale grn & stained reddish brn<br>-some sections are stained w/ reddish brn ox penetrating rock & along some Qtz stringers | | | -TOP CONTACT- sharp, pl, ireg, 50° | | | | | | | |
| 145 | | | | | | | | | | | | | | | | | | |

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# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 145 | | 147.0 | 0.0 | 100 | | | -147.5 to 148.2 ft- reddish brn ox | MAFIC DYKE continued -occasional Pyrite blebs | | | -BOTTOM CONTACT- sharp, curvipl, 30° | | | | | | | |
| 150 | | | | | | | | QUARTZ MONZONITE (148.2 to 160.0) -see general description for Quartz Monzonite @ 6.8 to 22.5 ft | | | | | | | | | | |
| 155 | | | | | | | | | | | | | | | | | | |
| 160 | | | | | | | -59.0 ft- mafic clast, pale grn, porph | MAFIC DYKE (160.0 to 161.0 ft) -same general description as Mafic Dyke at 137.0 to 148.2 ft, except alt to pale grn | | | -TOP CONTACT- sharp, pl, 75° -BOTTOM CONTACT- sharp, curvipl, 20° | | | | | | | |
| | | | | | | | | QUARTZ MONZONITE (161.0 to 172.5) -same general description as Qtz Monzonite @ 6.8 to 22.5 ft | | | | | | | | | | |
| 170 | | | | | | | | MAFIC DYKE (172.5 to 174.5 ft) -m.g., alt reddish brn throughout except pale grn near contacts, minor Quartz stringers | | | | | | | | | | |
| 175 | | | | | | | | | | | -TOP CONTACT- sharp, pl, 65° -BOTTOM CONTACT- sharp, ireg | | | | | | | |

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# CORE DRILLING - BEDROCK LOG

| DRILLING INFORMATION | | | | | LITHOLOGY | | | | | ROCK MASS STRUCTURE | | SAMPLING INFORMATION | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | Elev. (ft) | Run | Short | % Recovery | Weath | Foliation/ Bedding | ROCK DESCRIPTION Particular | ROCK DESCRIPTION General | Graphic Log (Lith.) | Graphic Log (Struc.) | STRUCTURE DESCRIPTION | Interval Sampled | Length (ft) | Sample No. | ANALYSIS Au oz/ton | ANALYSIS Ag oz/ton | | |
| 175 | | | | | | | | QUARTZ MONZONITE (174.5 to 204.0) -same general description as Quartz Monzonite @ 6.8 to 22.5 ft | | | -many frac oriented at 30° | | | | | | | |
| | | 177.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 180 | | | | | | | -178.0 to 191.0 ft- high chloritic and sericitic alt | | | | -178.0 to 191.0 ft- moderately to highly frac, highly bkn | | | | | | | |
| | | 181.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| | | 184.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 185 | | | | | | | | | | | | | | | | | | |
| | | 189.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 190 | | | | | | | | | | | | | | | | | | |
| | | 194.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 195 | | | | | | | | | | | | | | | | | | |
| | | 199.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | |
| | | 204.0 | 0.0 | 100 | | | | | | | | | | | | | | |
| 205 | | | | | | | | END OF HOLE @ 204.0 ft | | | | | | | | | | |

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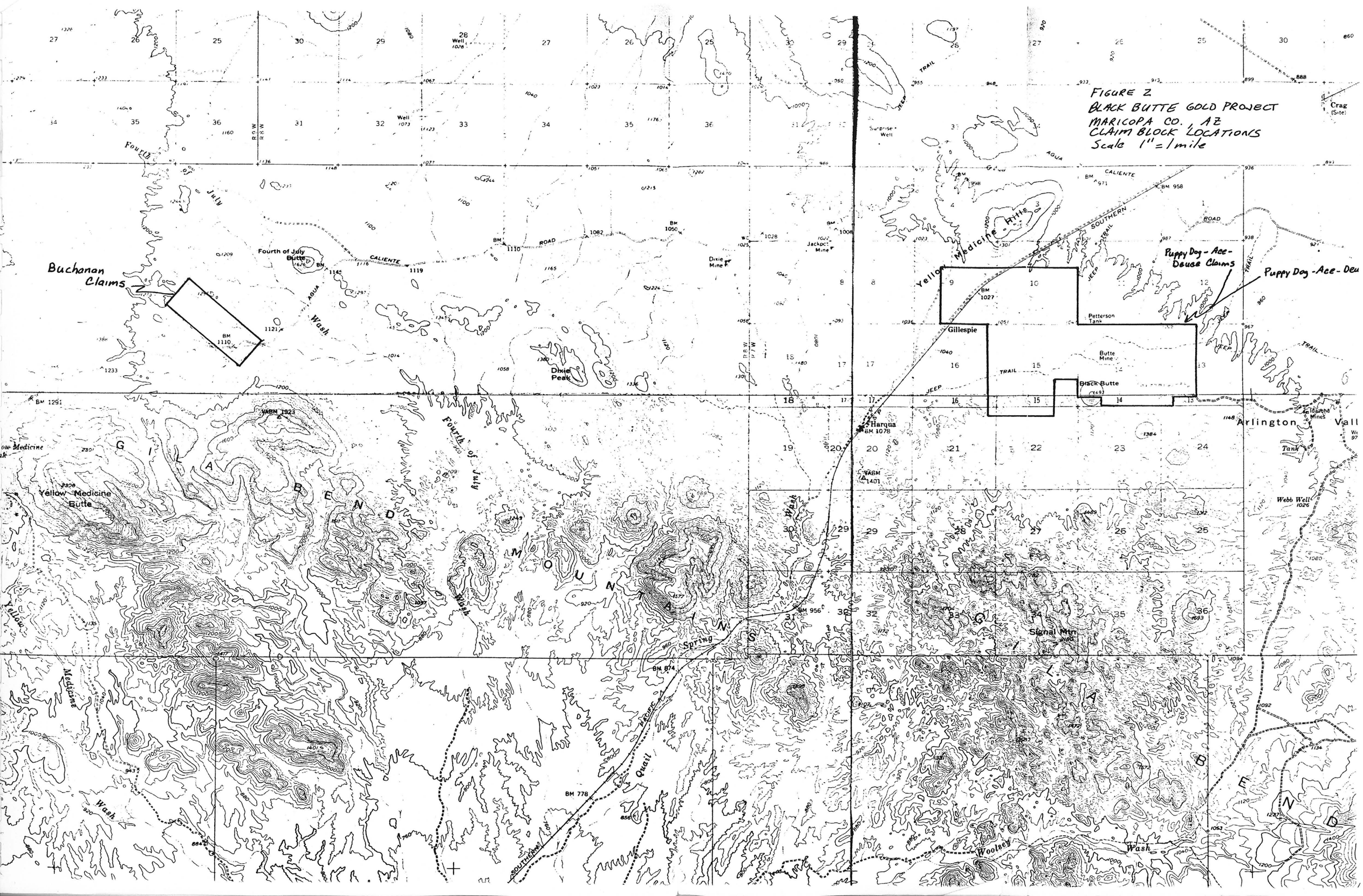
FIGURE 2
BLACK BUTTE GOLD PROJECT
MARICOPA CO., AZ
CLAIM BLOCK LOCATIONS
Scale 1" = 1 mile
Buchanan Claims
Puppy Dog - Ace - Deuce Claims
Puppy Dog - Ace - Deu
Yellow Medicine Hills
Yellow Medicine Butte
Fourth of July Butte
Fourth of July Wash
Dixie Peak
Dixie Mine
Jackpot Mine
Gillespie
Petterson Tank
Butte Mine
Black Butte
Harqua
Arlington
Idaho Mines
Webb Well
Signal Mtn
Quail Spring
Wooley Wash
Yellow Medicine Wash
GILA BEND MOUNTAINS
GILA BEND
Crag (Site)
Surprise Well
Well
AGUA CALIENTE ROAD
SOUTHERN TRAIL
JEEP TRAIL
VABM 1923
VABM 1401
BM 1291
BM 1110
BM 1027
BM 1050
BM 1082
BM 958
BM 956
BM 874
BM 778
BM 1078
R8W
R7W