UTAH MINES LTD.

PORT HARDY, B.C. VON 2PO TELEPHONE (604) 949-6326

July 30, 1980

Ministry of Energy, Mines & Petroleum Resources, Douglas Building, Government Street, Victoria, B. C. V8V 1X4

Dear Sirs:

Re: Assessment Report -East Group of Mineral Claims

The accompanying report, in duplicate, is being submitted in compliance with regulations governing assessment work under the Mineral Act, revised to January 1st, 1978.

Credit is requested for diamond drilling performed between July 5th and July 13th, 1980.

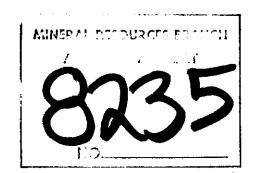
Yours truly,

John Lamb, P. Eng., Project Geologist.

m Somb

JL/ps

Attachments



REPORT ON DIAMOND DRILLING SUBMITTED FOR

ASSESSMENT WORK ON THE EAST GROUP OF

MINERAL CLAIMS

Latitude 50° 37' N Longitude 127° 21' W

| Mining Division | - | Nanaimo |
|-------------------|--------------|---|
| N.T.S. Location | - | Map 92 ^L /11 1:50000 |
| Detailed Location | - | About 15.4 kilometers straight southeast of Port Hardy on Section 25, Township 4. |
| Owner | - | Utah Mines Ltd. |
| Operator . | | Utah Mines Ltd. |
| Author | - | John Lamb, P. Eng. |
| Date Submitted | . . | July 30, 1980 |

TABLE OF CONTENTS

| | Page |
|--------------------|------|
| OBJECTIVE | 1 |
| WORK PERFORMED | . 1 |
| STATEMENT OF COSTS | 2 |
| RESULTS | 3 |
| CONCLUSION | 3 |

MAPS:

- (1) Claim Map Showing Location of Drill Hole
- (2) Index Map Sheet 92^L/11 N.T.S.

APPENDICES:

- (1) Copy of Drilling Contract
- (2) Copy of Drill Hole Logs

OBJECTIVE:

The hole, located specifically on Mineral Claim E-42, is near the northeastern corner of Utah's Island Copper claim holdings. The chief objective was for condemnation purposes, in an area considered unfavourable for mineral occurrence. There is some outcrop within 1 km. of the hole, which explains its second objective, to obtain positive information about the bedrock geology in the area.

WORK PERFORMED:

- 1. One hole was diamond drilled between the 5th and 13th of July 1980. Core size was NQ.
- 2. Located on E-42 MC (#32469), the hole is at the far end of a branch logging road, off Rayonier R-900 road, north of the Rupert Mainline road and about 1½ km. northeast of the new Ministry of Transport Loran C Tower.
- Hole particulars are:

| <u>Hole</u> | Inclination | Length | Collar Elev. | Collar Co-ordinates |
|-------------|------------------|--------|--------------|---------------------|
| R-12 | -90 ⁰ | 256.6M | 97.54M | 10345N 54448F |

The co-ordinate position is based on the system in use at the Island Copper Mine.

- 4. Drill core logs are attached to this report. Logging was done by J. Lamb, P. Eng., B.A.Sc, M.A.Sc, University of British Columbia, who is on the mine staff. The core is stored at the mine site.
- 5. An itemized cost statement is included in the report.
- A copy of the drilling contract, under which the work was done is included. It is between Utah Mines Ltd. and Connors Drilling Ltd.
- 7. Both an index map (1:50000 NTS) and a detailed claim map (1:12000), form part of the report and show the location of the drill hole and the East Group.

STATEMENT OF COSTS FOR THE EAST GROUP OF CLAIMS

CONTRACTOR'S CHARGES

| CUNTRACTOR 5 C | JHAKGES | | |
|--|--|----|------------------------------|
| <u>Overburden</u> | <u>ı</u> - | | |
| 113 feet @ | ofield Cost | \$ | 3,550.00 |
| Rock - | | | |
| 109 - 500 500 - 842 | | • | 7,018.45 6,617.70 |
| Field Cost | ts - | | |
| 62 man hou | p, reaming, water lines, etc. urs @ \$23.00 hours @ \$25.00 | · | 1,426.00 775.00 |
| Extra Char | rges - | | |
| for contra | ion Cost @ 8% of total charges act consumed & materials left in hole | | 640.00 1,007.35 |
| UTAH COSTS | | | |
| Geolog Compar | House Labour gical Supervision ny Overhead @ 25% of Labour, | | 450.00 1,120.00 392.00 |
| 4. Core E 5. Room 8 | supervision Boxes - 41 @ \$4.25 & Board, 4 men for 9 days at | | 174.25 648.00 |
| 7. Survey | u/day ration of Report y of Hole le Operation 180 mi @ 30¢/mi | | 450.00 500.00 54.00 |
| | | \$ | 24,822.75 |
| | | _ | |

Total Footage Drilled - 842 Feet

Cost Per Foot Drilled - \$29.48

RESULTS:

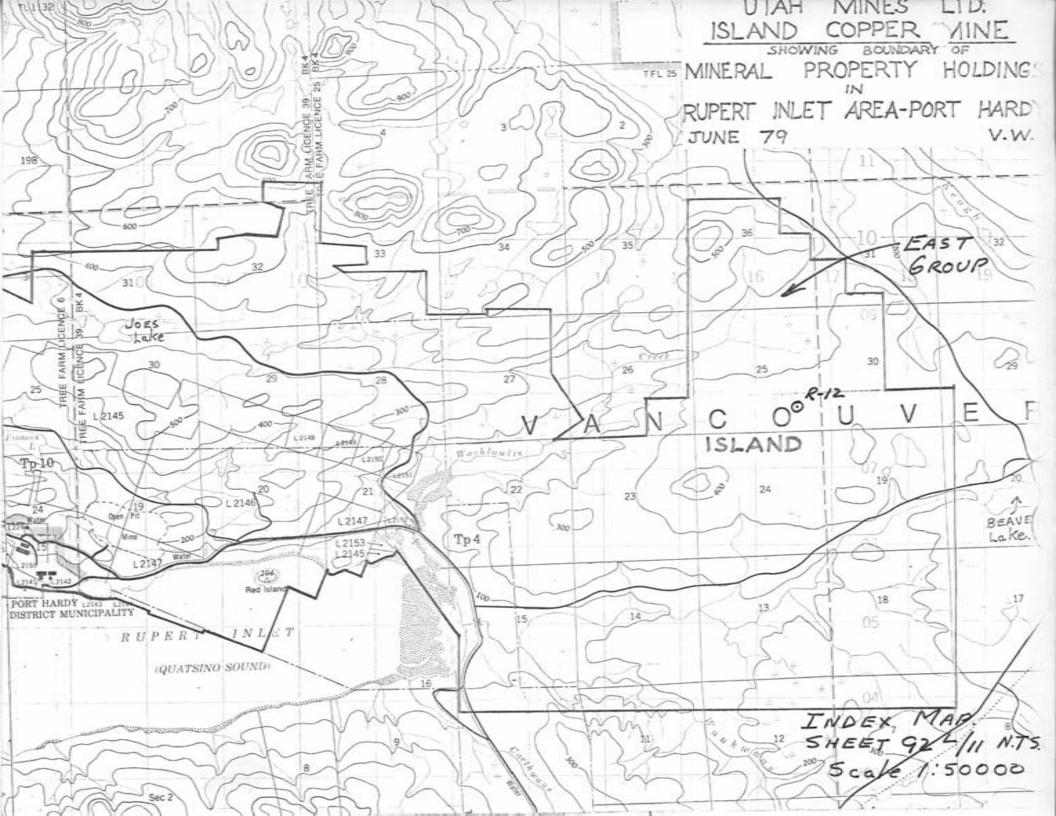
Beneath an overburden cover of 33.2 meters, the hole entered limey striped argillite of the Parson Bay formation, passing into the Quatsino limestone at 145 meters and finally into the Karmutsen volcanic group at 251.3 meters, where it finally bottomed at 256.6 meters. A short stretch of pyritic mineralization with minor chalcopyrite was intersected at 252 meters, close to the Quatsino-Karmutsen contact.

CONCLUSION:

From the information provided by a few local rock outcrops, previous diamond drilling and easterly projections of geological formations from the mine area, it was anticipated the hole would be in Karmutsen group rocks only. The fact that the Karmutsen was not encountered until 251 meters below the collar suggests a sharp drop in the formation within a short distance. At present we expect a northwesterly trending fault crosses the area, causing a downward displacement of the northeast side. There is little evidence on surface of the existence of such a fault.

J. Lamb, P. Eng.

JL/ps



Appendixl addendum to addendum on the sellowing on track following



Box 1657, Merritt, B.C. V0K 2B0

May 5, 1980

Utah Mines Ltd., Box 370, Port Hardy, B.C., VON 2P0

Attention: John Lamb Island Copper Mine

Dear John;

This is further to the discussion with you and our Mr. Wayne Beaupre ...

- 1) NQ3 core drilling will be charged at 0.60 per foot more than the NQ prices, retro-active from the start of the 1980 drilling program.
- 2) Connors Drilling will supply a 25R drill mounted on a truck for your drilling where there will be long moves. These holes will be NQ size and drilled at minus 90 degrees.
- 3) Mob for the truck mount, from Connors base of operations to Island Copper will be a lump sum of \$2,000.00
- 4) De-mob from Island Copper to Connors base of operations will be a lump sum of \$2,000.00

R. Griffiths

Regional Manager

Accepted

Accepted

c/c Bob Hindson Frank Tagami Joe Benard

RTG/mg



Suite 205 · 1201 West Pender Street, Vancouver, B.C. V6E 2V2 • (604) 683-2222

Ohn 7

February 12, 1980

Utah Mines Ltd. Island Copper Mine P.O. Box 370 Port Hardy, B.C. VON 2P0

Attention: Mr. John Lamb

Dear John:

Please find enclosed three copies of our bid for your drilling job near Port Hardy, B.C.

If you have any questions, don't hesitate to phone myself or Joe Benard at 683-2222.

Yours truly,

CONNORS DRILLING

R. Griffiths
Division Manager

RTG/tvb

Enclosures

cc: F. Tagami

R. Hindson

J. Benard



Suite 205 - 1201 West Pender Street, Vancouver, B.C. V6E 2V2 • (604) 683-2222

MEMORANDUM OF AGREEMENT made this 11th day of February 1980.

BETWEEN: UTAH MINES LTD.

Island Copper Mine

P.O. Box 370 Port Hardy, B.C.

VON 2P0

(hereinafter referred to as the "COMPANY")

AND:

CONNORS DRILLING

Division of Bow Valley Resource Services Ltd.

205 - 1201 West Pender Street

Vancouver, B.C.

V6E 2V2

(hereinafter referred to as the "CONTRACTOR")

The CONTRACTOR agrees to perform diamond drilling on the lands of the COMPANY situated near Port Hardy, B.C. on the following terms and conditions, on 15 days acceptance.

SPECIFICATIONS:

The CONTRACTOR agrees to sink by piping or to bore by diamond drilling ninety-two hundred (9,200) linear feet. And the COMPANY guarantees to the CONTRACTOR a minimum footage of ninety-two hundred (9,200) linear feet in approximately eleven (11) holes with a maximum length or depth of twenty-two hundred (2,200) feet at an angle no flatter than minus forty-five (-45) degrees from the horizontal.

It is agreed that the core from the holes shall be approximately 1 7/8 inches in diameter known as NQ in the trade, and that said core shall be kept in boxes provided by the COMPANY.

COMMENCEMENT AND EXECUTION OF WORK:

Work shall be commenced on or around March 1, 1980 with two crews working ten hour shifts, seven days per week or as near that schedule as can be maintained.

Cont'd

PRICES:

a) Mobilization

From the CONTRACTOR'S base of operations to the truck offloading point, for equipment and crew, at a lump sum of \$2,000.00.

b) Demobilization

From the truck loading point to the CONTRACTOR'S base of operations, for equipment and crew, at a lump sum of \$1,500.00.

c) For Drilling in Bedrock

| | NQ Size | _ |
|--------|-----------|------------|
| From | <u>To</u> | Price/Foot |
| 0 1 | 5001 | \$17.95 |
| 501' | 1,000' | \$19.35 |
| 1,001' | 1,500' | \$20.90 |
| 1,501' | 2,000' | \$22.60 |
| 2,001' | 2,500' | \$24.40 |

d) Overburden

For piping and/or drilling in overbruden at an angle no flatter than -45 degrees from the horizontal: from 0 to 50 feet at \$19.35 per foot.

If the depth of overburden exceeds 50 feet, and the cost exceeds the quoted price per foot, then the price for penetrating overburden for that hole will be at COST.

Prices do not include the COST of calcium chloride, drilling mud and/or drilling mud additives. If required, these will be invoiced to the COMPANY at COST.

The COMPANY will pay at COST for all materials left in holes, or will pay at COST for recovering such material.

e) Cementing and Reaming

It is agreed that if a hole required cementing, wedging, reaming, etc., to allow drilling to proceed, the COMPANY will pay the CONTRACTOR at COST.

f) <u>Cost</u>

Any reference to COST in this Agreement shall be interpreted as follows:

All labour provided by the CONTRACTOR up to 10 hours per man per day (70 hours per man per week), will be at the all-inclusive rate of \$23.00 per man hour.

All material, supplies or services provided by the CONTRACTOR will be charged for at their COST, plus transportation, sales tax and a nominal 15% for accounting, et cetera.

Where applicable such as in piping, reaming, cementing, wedging and testing, machine time will be charged at the rate of \$25.00 per hour, including fuel and oil.

g) Moves

It is agreed that the COMPANY will pay at COST for all moving between holes, over 20 man hours per move.

If the CONTRACTOR is required to move back on an old hole for any purpose, the COMPANY will pay the CONTRACTOR at COST for moving to and cleaning out the old hole.

The COMPANY will pay the CONTRACTOR at COST for moving on a hole when there is less than 500 feet of core drilling in that hole.

Moving shall be interpreted to include tearing down, dismantling machinery, moving, securing timber, transportation, site preparation, setting up and laying and dismantling waterlines.

h) Walking Time or Travelling Time

The COMPANY will pay for all travelling time over one-half hour per man per shift, at the rate of \$20.00 per man hour.

i) Water

The COMPANY agrees to pay at COST of supplying and maintaining water supply lines from an adequate source to the drill site when such distance exceeds 3,000 feet or lifts of 150 feet in the non-freezing season and 1,500 feet or lifts of 150 feet in the freezing season.

j) <u>Delays</u>

It is agreed that at the same time the COMPANY notifies the CONTRACTOR to cease drilling on a hole, the COMPANY will also inform the CONTRACTOR of the site of the new hole to be drilled. Should the COMPANY fail to locate sites or for any cause which is responsible for the delay of the operation of the drill, the COMPANY agrees to pay the CONTRACTOR at "standby rate" for the period that the operation of the drill has been delayed by such failure.

k) Standby

Standard rate will be \$70.00 per shift hour.

When the COMPANY requests equipment remain on location, the standby rental rate, non-operated will be as follows; drill including drilling equipment at \$3,000 per month, plus the cost of demobilizing and mobilizing drill crew.

1) Tests

The CONTRACTOR will furnish a clinometer, test tubes and hydrofluoric acid and make tests for vertical angle only as required by the COMPANY for a charge of \$85.00 per test. Tropari tests will be made at COST.

m) Core Orientation Surveys

Core orientation surveys, if taken, at \$90.00 per shift hour, -plus \$7.00 per foot for the footage drilled while taking the surveys. 91.

n) Core Boxes

The CONTRACTOR will supply, if requested, core boxes at COST, plus 15%.

o) Board and Lodging

The COMPANY will supply room and board for the CONTRACTOR'S crews at no cost to the CONTRACTOR.

p) Payments

Invoices will be rendered twice monthly, covering the preceding half month, and will be due and payable in full, in Canadian funds, within 30 days of issue. Interest will be charged on past due accounts at the rate of 18% per annum after 30 days of issue.

q) Machinery and Equipment

The CONTRACTOR will supply one unitized 44 drill complete with mud sloop, rod sloop, rods, core barrels, grease, diamond items, tools, etc.

q) Transportation

The CONTRACTOR will supply a 4x4 truck for it's crews use at no cost to the COMPANY. The COMPANY will supply a tractor to move the CONTRACTOR'S drill at no cost to the CONTRACTOR.

GENERAL:

- a) It is agreed that the CONTRACTOR shall pipe and drill on the site selected by the COMPANY'S Representative and will deliver at the drill site only to such person as the COMPANY may designate all cores taken from the holes drilled.
- b) The CONTRACTOR does not guarantee the direction of the hole beyond the collar.

- c) The COMPANY shall provide, at no COST to the CONTRACTOR, all rights of way of ingress and egress to all lands that may be required to enable the CONTRACTOR to carry out the work as specified. The CONTRACTOR shall be permitted to cut and fell any timber on the COMPANY'S property as may be required in the course of the work hereunder, and the COMPANY shall indemnify and save harmless the CONTRACTOR from any assessment for stumpage or other charges of every kind and nature.
- d) Upon completion of the work herein contracted to be performed the CONTRACTOR shall have the right to remove within a reasonable length of time all temporary buildings and other fixtures including trade fixtures, machinery, equipment and appliances placed upon such lands.
- e) It is agreed that, should a cavity or loose and caving material be encountered at a depth which would prevent successful drilling, the CONTRACTOR does not guarantee to drill or sink a hole to any specified depth, but will drill or sink as is practical under existing overburden and rock conditions and the COMPANY will pay for every foot sunk and drilled.
- f) The CONTRACTOR agrees to carry and pay for all proper Workmen's Compensation to cover injuries to all employed by the CONTRACTOR on the property of the COMPANY.
- g) All COST resulting from the enforcement of government regulations or legislation concerning land use or pollution control measures which may be applied to the work will be borne by the COMPANY.
- h) This Agreement and any dispute arising hereunder shall be interpreted and determined in accordance with the laws of the Province of British Columbia.
- i) The CONTRACTOR shall not be held responsible for any delays in carrying out the obligations of this Agreement resulting from Acts of God, strikes, fires, casualties, or other causes beyond the CONTRACTOR'S control.
- j) All Government sales taxes and social benefits in force at time of signing this Contract are included in the quoted prices.
 All COST increases due to legislated tax or benefit increases which arise after signing of the Contract, will be chargeable to the COMPANY.

| k) This Contract will not approved in writing by | be binding upon the COMPANY until an officer thereof at its Head Office. |
|--|--|
| IN WITNESS WHEREON | the parties hereto have hereunder set |
| their hands this | day of 19 . |
| Signed and Delivered in the presence of: | UTAH MINES LTD. |
| in the presence of. | · |
| Witness | Per S alm Title J. P. + Mi Manage |
| | |
| | CONNORS DRILLING, Division of Bow Valley Resource Services Ltd. |
| | Per R SIHTH |
| Witness | Title " |



Box 1657, Merritt, B.C. VOK 2B0

February 29, 1980

Utah Mines Ltd., Island Copper Mine, Box 370, Port Hardy, B.C., VON 2P0

Attention: Mr. John Lamb.

Dear John;

This is in regard to our telephone conversation on core orientation surveys.

It is my understanding that there will be no coring while taking core orientation surveys.

The Company will supply all special equipment to take the surveys.

Connors Drilling will supply the labour and drilling equipment needed at \$90.00 per shift hour.

Trusting this meets with your approval;

Yours truly,

R. Griffiths
Regional Manager

c/c
Joe Benard
Frank Tagami

Bob Hindson

RTG/mg

HOLE NO. R-12 PAGE NO: 3 OF /3 PROJECT : CASING COLLAR ELEV .: GROUND ELEV,; REF. TO CLAIM CORNER: DATE FINISHED: COGRDINATES: INCLINATION: BEARING: TOTAL DEPTH: LOGGED BY : ALTERATION COMMENTS: AVE CORE REC'Y / HOLE MATED MINERAL DESCRIPTIVE GEOLOGY 160-2272 - See P.Z. (48.77-69.34 m) clay gouge (69.34 - 73.15 m) 227 = -240 - Mostly buff-gray chert

w. mingr coarse sections. Laced

w. calc. irreg. vits. (73.15-80.77 m) argillite, limey & laced w. calc vits.

Shows small-scale brecciation or bed movements. A few thin pritic layers in body -Z60-, bdd g @ 40° (80.77-91.44.m) 265 - 300 - First 20', t. bdd black
limey argillite w. minor light gray
bddg lms. bds haced w. irreg. streaks
spots or gashes of wh. calc. Some
bddg gils. on fracs: (contid p4) -270

HOLE NO. 2-12 PAGE NO: 4 OF 13 PROJECT: GASING COLLAR ELEV .: REF. TO CLAIM CORNER: GROUND ELEV,; DATE STARTED: DATE FINISHED SCALE: COORDINATES: LOGGED BY : INCLINATION: BEARING: TOTAL DEPTH: ALTERATION AVE CORE ESTI-COMMENTS: REC'Y / HOLE MATED MINERAL GEOLOGY DESCRIPTIVE -280 265-300 (cont'd from P3) sheared (80.77-91.44m) From 285 to 300, light
black, carbonaceous.

gray clastic sediment w. white
scalld granules. Numerous
calc. seams, some showing gils . Sparse Py. 300 - 340 (91.44 - 103.6 m) Largely black argillite, well bedd. w. some some gray cherty tuffaceous looking sectioner rock from 308-14, containing irreg muldy slips
- 2" gray gouge chunks of black arg Minor dissem py, also on body planes wo occ speck cpy Laced w irreg calc ults Minor fracturing shown by small body displacement. 320bddg@35° -330 Afossil imprint - "halobia"

CASING COLLAR ELEV. REF. TO CLAIM CORNER: GROUND ELEV, DATE STARTED SCALE: DATE FINISHED: COORDINATES: LOGGED BY : INCLINATION: BEARING: TOTAL DEPTH ALTERATION AVE CORE ESTI-COMMENTS: REC'Y / HOLE DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE MATED FRACTURING SAMPLE INTERVAL % REC'Y. SAMP. INT. MINE RAL GEOLOGY SECTION DESCRIPTIVE GEOLOGY -340 340-400 - Very black finely bidded. (103.6-1219m) 11.4- w. minor narrow argillite w. minor narrow

grey Inis bands. Bodg wavy

from 30° to 60° to cove, indicating

undulation or folding.

Laced w. cale vns a irreg -356r blobs v streaks. From 379-382 impure argillaceous A few thin buff colored shaly scams in the avg (bedded) toda 500 Remnants of fossil, "halobo in the core Sparse py 380 sheared & broken

PROJECT:

HOLE NO. 12-12

PAGE NO: 5 OF /3

CASING COLLAR ELEV.: GROUND ELEV, REF. TO CLAIM CORNER: DATE STARTED: COORDINATES: DATE FINISHED: SCALE: INCLINATION: BEARING: TOTAL DEPTH: LOGGED BY : ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE FRACTURING MATED MINERAL SAMPLE INTERVAL % REC'Y. SAMP INT SECTION DESCRIPTIVE GEOLOGY 400 400 - 460 (103.6 - 121.9 m) NQ Mostly very black to bod argillite w some thin tan soft muddy beds in places and short runs of grayish impure lms.

Occ. trace of halobia Loced w calc. gashes. bdd, 6 I sheared + soft calcitic b'xa 1ddg @ 450

PROJECT:

PAGE NO: 6 OF 13

HOLE NO. 12

HOLE NO. /2 - / Z CASING COLLAR ELEV .: REF. TO CLAIM CORNER: GROUND ELEV,: DATE STARTED: SCALE: DATE FINISHED: LOGGED BY : NCLINATION: BEARING: TOTAL DEPTH: ALTERATION AVE CORE ESTI-COMMENTS: REC'Y / HOLE DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE MATED FRACTURING MINERAL GEOLOGY SECTION GEOLOGY **DESCRIPTIVE** 460-492 (140.2 - 149.9 m) NQ -bddg@ Alternating t. b black arg w minor impure Ims. beds.
Broken & re-healed w irreg calc.
seems. 470-Minor movement & crackling of rock. - boddg@ 50° -bddg @ 45° -bddg@450 492-520 (149.9-158.5 m) Blackish Ims w. minor limey arg beds. Frought w. network of calc stringers
Commonly irreg pieces of argillite broken q healed into a Ims. matric Occ. streak of gils assoc. w fracs. hddg@45° 510 .520

PROJECT :

PAGE NO:

OF 13.

| HOLE NO.: R-/ | · Z_ | | PROJECT: | | PAGE NO: 8 | OF. | 13 · | | | |
|--------------------|----------------------------------|-----------------------|--|--|--------------------------|-----------------------|-------------------|---------------|-------------------------------|----------------|
| CASING COLLAR ELE | | GROUND ELEV, | DATE STARTED: | | REF. TO CLAIM | CORNER: | | | | |
| CCORDINATES: | | N | DATE FINISHED: | | SCALE: | | | | | |
| INCLINATION: | | BEARING: | TOTAL DEPTH: | | LOGGED BY: | | | - | | , |
| SECTION | FRACTURING MINERAL GEOLOGY | COMMENTS: | | | AVE CORE REC'Y / HOLE | SULPHIDES DRILLING | INTERVAL % CORE | CORE SIZE | SAMPLE INTERVAL % REC'Y | ESTI- MATED |
| | FRACT MIN GEC | | DESCRIPTIVE GEOLO | | | SULF | INTI % RECO | ပ်ဖ | SAMF INTER % REC | NAC . |
| 520 | | | 520 - 580 (158.5 - Impure dk. gray brecciated with in | 176.8 m) Ims., mo veg small aillite | to large | | | | | |
| 530 | | | Impure dk. gray brecciated with in frags of black av Laced w. a netw in fracs, forming Occ. specks p | Jork of Wi a crackle y. | hile calc pattern | | | | | |
| 540 | | 1"block jouge 240° | | | | | | | | |
| -5 5 0- | | | | | | | | | | |
| -560- | | | | | | | | | | |
| | | black muldy slip | | | | | | | | |
| 580 | | | | | | | | | | |

| HOLE NO. R- | 12 | | - | | PROJECT: | PAGE | NO: 9 | OF | /3 | • | | | | |
|-----------------|-----------|---------|---------|--|--|--|------------------------|-------------|---------------------|---------------------|--------------|-----------------|---------------------|----------------|
| CASING COLLAR E | LEV,: | | | GROUND ELEV,; | DATE STARTED: | REF. | TO CLAIM | CORNE | ER: | | | | | |
| COORDINATES: | | | | Ν. ε. | DATE FINISHED: | SCAL | €: | | | | | | | |
| IN CLINATION: | | | | BEARING: | TOTAL DEPTH: | LOGG | ED BY: | | | | | | | |
| ALTERATIO | RACTURING | MINERAL | GEOLOGY | COMMENTS: | | AVE (REC'Y / | ORE HOLE | % PHIDES | DRILLING NTERVAL | % CORE RECOVERED | CORE SIZE | AMPLE FERVAL | % REC'Y SAMP INT | ESTI- MATED |
| | FRAC | M | GE(| | DESCRIPTIVE GEOLOGY | | • | SUL | OR. | % REC(| 00, | S. IN | % SAN | |
| -580 | | | | | 580 - 609 (176.79 - 1 Light to dark gr numerous floating black Crockled a healed win | ray /ms con Larg. frags. White calc on | ntoim the | 19 | | | NQ | | | |
| -590- | | | - | sheared. black | fracs | | | | | | | | | |
| -600- - - | | | | | | | | | | | | | | |
| -610 - | | | | | 509-622-(185.6-18 Somewhot limey pale W. specks White calc. (in matrix. Numerous cra calc | granular sec Consid more s cklings, filled | liment sandy w | | | | | | | |
| -650- | | | | Consideration to a second report of the second repo | | | produktivanski sa majr | | | | | | | |
| -63-0- | | | | shearing 10350 | Mostly gray lms. v layers or irreg bla fragments. Fraught Calc-filled frocs. | v minor sand ick argillace w a network | ly us t of | | | | | | | |
| 640 | | | | | 634.5-700 See Pio | 0 | | | | | | | | |

PAGE NO: 10 OF 13 HOLE NO. 12 PROJECT: REF. TO CLAIM CORNER: DATE STARTED: GROUND ELEV .: GASING COLLAR ELEV .: COORDINATES: LOGGED BY : TOTAL DEPTH: BEARING: INCLINATION: AVE CORE ALTERATION COMMENTS: REC'Y / HOLE DRILLING
INTERVAL
% CORE
RECOVERED
CORE MATED RACTURING MINERAL GEOLOGY SECTION **GEOLOGY** DESCRIPTIVE 634.5 - 700 (193.4 - 213.3 m) NQ Tygray muddy gouge. To 650 blackish, massive Ims, w. some streaky fragments black carbonaceous argillite.
Fraught w calc-filled fraces Evidence
of flowage & small scale brecciation. -650 650-658 - tan cherty rock, massive, w. fine white limey specks v numerous calc vits. z'sheared a gougy black. 658-700 - To 671 blackish lms. W. abundant network cak vits.
671-700 - dark gray mass. Ims., crackled
w healed w white cak vits. -67**0**-Good firm core -680

HOLE NO. 7 - 12 PAGE NO: // OF /3 PROJECT: REF. TO CLAIM CORNER: CASING COLLAR ELEV.: GROUND ELEV,; DATE STARTED: SCALE: E. DATE FINISHED: COORDINATES: LOGGED BY : TOTAL DEPTH: INCLINATION: BEARING: ESTI-AVE CORE COMMENTS: ALTERATION DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE REC'Y / HOLE MATED FRACTURING MINERAL GEOLOGY GEOLOGY DESCRIPTIVE 700-760 (213.3-231.6 m) Dark gray mass. Ims. w. shadowy black carbonaceous streaks. Thin network calc uns. Evidence of flowage a micro brecciction Core clear a firm in good lengths. 720

| HOLE NO. R- | 12 | | | PROJECT: | | PAGE NO: / Z | _ of /3 | 3. | | | | |
|--------------------|------------|---------|-------------------------|--|-------------------------------------|--------------------------|-----------------------------|------------|------|--------------|-----------------------|-------|
| CASING COLLAR | ELEV,; | | GROUND ELEV, | DATE STARTED: | | REF. TO CLAIM | CORNER: | | | | | |
| COORDINATES: | | | N. E. | DATE FINISHED: | | SCALE: | | | | | | |
| INCLINATION: | | | BEARING: | TOTAL DEPTH: | | LOGGED BY: | | | | | | |
| ALTERATIO | | | COMMENTS: | | | AVE CORE REC'Y / HOLE | s . | ۵ | | | | ESTI- |
| NO | JRING | 06Y | | | | | HIDE LING RVAL | ORE ÆRE | CORE | APLE RVAL | EC.≺ | |
| SECTION | FRACTURING | GEOLOGY | | DESCRIPTIVE GEOLOGY | | | SULPHIDES DRILLING INTERVAL | RECOV | ပ္သ | SAMPLE | % REC'Y. SAMP INT. | · |
| 760 - -770 - | | | 7 | Dark even gray in minor calcults of irreg Occ. frac shows small coatings Traces of gils in so | onass. /i streaks crystalline | ms. w. se calcite | | | - | | | |
| -7 <i>80</i> - | | | | | | | | | | | | |
| -79o - | | | thin holds a 45° to con | | | | | | | | | |
| 803 | | | bdg @ 45° | | | | | | | | | |
| - | | | | | | | | | | | | |

PAGE NO: 13 OF 13 HOLE: NO. 12-12 PROJECT: REF. TO CLAIM CORNER: SROUND ELEV, DATE STARTED: GASING COLLAR ELEV .: SCALE: DATE FINISHED: COORDINATES: LOGGED BY : TOTAL DEPTH: BEARING INCLINATION: ESTI-AVE CORE COMMENTS: ALTERATION SULPHIDES
DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE REC'Y / HOLE MATED FRACTURING MINERAL GEOLOGY SECTION GEOLOGY DESCRIPTIVE -820 760 - 824.5 91/5 See p12

824.5 - 842 (251.3 - 256.6 m)

Tan for first 2' changing to dk

green volcanic rock. Streaked w. cak

vilts. Last 5ft. slightly porphyritic v

med. grouned

From 832 - 83.3 siliceous v well minited

w. py a minor cpy. 230 842 FT. (256.6 m) -340 · END OF HOLE -850 Note - At 8245 the rock changes from Quatsino to Karmutsen formations J.1

