

020543

John R. Fraser

Anvil Mining Corp. Ltd.

Faro Camp, Y.T.

"Rite in the Rain"
WEATHERPROOF

a product of

J. L. DARLING CORPORATION
BROWNS POINT TACOMA, WASHINGTON

Geochem. Sampling.

From Archer & Cathro Report

April 1, 1966

Samples: Taken at 100' intervals
on lines no less than 400' apart.
- lines should run up & down
the hill slope. In the flatter
areas and till covered areas,
the best results will be obtained
where s^oc. seepage occurs. - where
a line crosses a swamp or
a drainage extra samples
should be taken - all gossans
should be sampled

Geochem. Samples - Ivan

	Sample #	Location		
11/6/66	V-1	8+00 W 18+00 N	SOIL	
	V-2	8+00 W 20+00 N	SILT	
	V-3	100' down stream from 3+00 32+00 E	SILT	
	V-4	32+00 E 11+00 N	SOIL	
	V-5	32+00 E 8+00 N	SOIL	
	V-6	E. Creek & baseline intersection	SILT	
	V-7	40+00 (S) E East CK	SILT	
12/6/66.	V-8	100' E of 12+00 W 16+00 N	SOIL	
	V-9	12+00 W 19+00 S	SOIL	
	V-10	16+00 W 23+00 S	SILT	
	V-11	24+00 W 25+00 S	SILT (?)	Taken in stream bed.
	V-12		SILT	Stream flowing into main stream.
	V-13	28+00 W 25+00 S	SILT	
	V-14		SILT	
	V-15		SILT	
	V-16	54+50 W & D.B.L.	SOIL	
	V-17	8+29 W 0+00 N	SOIL	
	V-18	8+00 W 2+00 N	SOIL	
	V-19	8+00 W 8+00 N	SOIL	

Ivan

June 11/66

D.D.H.V - 1

4+00 E (3+33) - 300 N central
base line

D.D.H.V - 2

8+00 E (7+14) - 1800 N central
base line

L 8 E 10+00 N beginning of steep bluff

64+50 (DBL) beginning of steep slope going East
to 53+50 W (DBL)

L 20 W 9+00 N in 52+00 on DBL

Geochem. Samples - Ivan.

	Sample #	Location	
12/6/66.	V-20	8+00 W 9+50 N	SOIL
	V-21	12+00 W 10+00 N	} no samples, ground frozen.
	V-22	16+00 W 12+00 N	
	V-23	16+00 W 10+00 N	
	V-24	16+00 W 8+00 N	SOIL.
	V-25	16+00 W 6+00 N	SOIL.

See Geological Map

Rock Specimens: for locations.

VR-1: A limy argillite - ~~ages~~
in HCl - bedding - many long
prismatic crystals of actinolite?
or wollastonite

VR-2: Limy argillite - some
muscovite - cut by veins
of calcite (white) - contains
fossils.

VR-3: Slightly limy argillite - cherty
- cut by veins of calcite

ELEVATIONS		BY	BAROMETER (IVAN)	
Line 32 W		13/6/66		
Station		Eleu.	Station	Eleu.
0+00S		-350	20+00	-275
1+00S		-325	21+00	-305
2+00S		-325	22+00	-345
3+00S		-315	23+00	-375
4+00S		-280		
5+00S		-300	Start - barometer	
6+00S		-295	at 0'	
7+00S		-290	End - barometer	
8+00S		-275	at -65'	
9+00S		-260		
10+00S		-270		
11+00S		-290		
12+00S		-280		
13+00S		-300		
14+00S		-285		
15+00S		-300		
16+00S		-300		
17+00S		-300		
18+00S		-300		
19+00S		-270		

NOTES - IVAN 13/6/66

At line 32W, 20+00 S the rocks
are a slate - very graphitic along
the foliations.

From 24W → 26W - 1/4 of argillite

ELEVATIONS		BY 13/6/66	BAROMETER		(IVAN)
Line 28 W			Station	Elev.	
Station	Elev.		Station	Elev.	
25+00S	-350		3+00S	-150	
24+00S	-350(?)		2+00S	-130	
23+00S	-300		1+00S	-125	
22+00S	-275		0+00S	-120	
21+00S	-230				
20+00S	-225				
19+00S	-235				
18+00S	-250				
17+00S	-265				
16+00S	-250				
15+00S	-275				
14+00S	-250				
13+00S	-250				
12+00S	-230				
11+00S	-200				
10+00S	-200				
9+00S	-195				
8+00S	-195				
7+00S	-180				
6+00S	-180				
5+00S	-175				
4+00S	-165				

66-34 -

- may not be at 100' - may be more or less - when drilling again, will note the depth at which drilling starts.

66-33 - down to 461.5

July 9, 1966

Faro Exploration:

① I.P. - Crew arrives July 12/66 - will be here until July 18/66:

Zone # 1 - $\left. \begin{array}{l} 72+00 \text{ W} \\ 64+00 \text{ W} \\ 56+00 \text{ W} \end{array} \right\} \begin{array}{l} \text{From B.L.} \rightarrow \\ 3000 \text{ N} \end{array}$

Zone # 2 - $\left. \begin{array}{l} 40+00 \\ 32+00 \\ 24+00 \end{array} \right\} \begin{array}{l} \text{From B.L.} \rightarrow \\ 3000 \text{ S} \end{array}$

July 11/66

F.F-1-66 - Sample taken at 24+00W
24+50N

Foliated - segregation of qtz_2 &
dark minerals + much biotite
QUARTZITIC BIOTITE SCHIST.

F.F-2-66 - Sample taken just
south of Post #1, claim 94144
The rock has a fairly well
developed foliation - very
quartz with bands & clots of
biotite - QUARTZITIC BIOTITE
SCHIST - Some drag folding
noted - cut by the odd dyke
of qtz_2 & fels porph

July 13/66

FARO. GEOCHEM.

Samples to be taken along the following lines every 100'. Use line number and station number for identifying the sample.

16+00 W

12+00 N → 28+00 S

12+00 W

14+00 N → 20+00 S

8+00 W

16+00 N → 20+00 S

4+00 W

B.L. → 20+00 N

3+00 W

B.L. → 30+00 S

1+00 W

20+00 N → 20+00 S

4+00 E

20+00 N → 30+00 S

8+00 E

20+00 N → 30+00 S

12+00 E

20+00 N → 30+00 S

These lines may be numbered

3+00 E, 7+00 E &

11+00 E respectively

July 13/66

Check current drill status.

Drill # 10: 66-39 116.5'

Putting down casing after
using a tricone bit - biotite
schist & small amt of qz
near 113' - minor sulphides
galena.

Drill # 7: 66-38 - 442' - shutting
down hole.

260 - 263.5 } Very siliceous
270 - 272.0 } sulphides - py, sphal,
274.5 - 277.5 } some po, gal.
283 - 442 - Altered diorite

Drill # 9: 66-40 - 78' - chloritic
sericite schist.

Drill # 8: 66-33 - stuck rods at
46'

July 13/66

66-38

178-188

Banded sulphides

sphal
py, gal

188-204

Massive sulphides - pa.

sphal

204-209

Banded sulphides

sphal, gal, py.

Geochem accomplished as of
July 13/66 - FARO ZONE D

16+00 W

12+00 N - 28+00 S

12+00 W

14+00 N - 20+00 S

8+00 W

16+00 N - 3 L

FARO GEOPHYSICS - ZONE D

EM and Mag. to be run over
the same lines as the geo-
chem. for this area.

Drill #9: 66-40 - 188' - should they
stop the hole at 200? - the
bit is almost finished. no
sulphides - sericitic qtz schist.
Down 100'.

Core boxes for Drill #10.

Drill #10: 66-39 - 208' - sulphides
at 202 - py, sphal, gal.

FARO GEOLOGY

Aug. 7, 1966

Rock Samples:

F-JF-1: Light colored rock - granitic in composition - medium grained (ie: qtz and feldspar grains are 1-2 mm in size) Approx 5% biotite - 2mm in diameter. Difficult to differentiate feldspars - GRANITE.

F-JF-2: Metamorphic rock - contains abundant biotite and qtz - good foliation - BIOTITIC QUARTZ SCHIST.

F-JF-3:

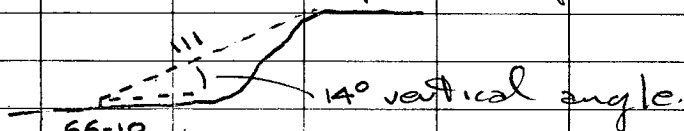
FARO GEOLOGY

F-JF-4: light colored rock - almost white. Exhibits bedding. Very fine grained, except for fragments of qtz and volcanic glass (black) located in a trench at HUB #64. - Strike 233° and dips 41° N

F-JF-5: Near 66-10 Aug. 11/66

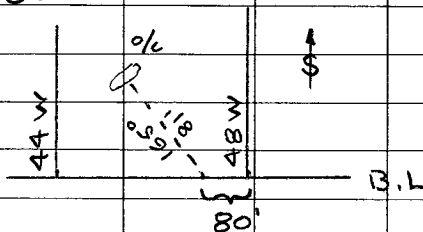
$104/37^\circ$ S - Foliation on E end of outcrop.

{ Very micaceous in places - appear to be a MICACEOUS QUARTZITE (possibly a qtz schist) Top of outcrop.



Horizontal dist = $(111)(\cos 14^\circ) = 108'$

F-JF-6:



F-JF-6: Foliation 144/395

Well developed foliation -
bedding appears to parallel
the foliation. Bands of biotite
- much qtz. - BIOTITIC QUARTZ
SCHIST

Aug 24, 1966

Mill Site Geology

102W/S.B.L: %c - LIMEY PHYLLITE
45' from 102W/S.B.L - 083°
The %c is 40' long - parallel
the lake edge. Foliation
 $273/26^{\circ}$ S. - white material soft
and reacts with HCl - calcite.
MS-J.F.-1: good foliation
med. grey in color - LIMEY
PHYLLITE

30' from west end of previous
%c - LIMEY PHYLLITE - very limy
Foliation $307/11^{\circ}$ S.

Aug 26, 1966

MS-J.F.-2: Dark, fine grained
with good foliation - very
siliceous in spots - large
Qtz auger - PHYLLITE

Aug 26, 1966

Mill Site Geology

MS-J.F.-2: eyes of $g\&g$ in
outcrop - ~ 130'

Doliation at $96+00\text{ W} / 22+20\text{ S}$
 $\sqrt{270 / 25^\circ\text{S}}$

MS-JF-3: Rock appears to be
quite limey - bedding or
doliation $174 / 6^\circ\text{W}$
200' - along trench (E-ward)
the bedding (?) $160 / 8^\circ\text{W}$.

Med. grey - dark bands of
phyllit. g material with lighter bands
of $g\&g$ & limey material.

BANDED QZFFE

MS-JF-4:

$\sqrt{217 / 18^\circ\text{SW}}$ Doliation - has a
crude doliation - contains
green ^{min.} that may be actinolite

Mill Site Geology

Aug 26/6

MS-J.F.-4: lite - AMPHIBOLE GNEISS

At 92+00w / 19+00S.

Cliff Top ————— Section

.. = (4)

= (4-A) - 4A appears to have a better developed foliation

MS.-J.F.-5: LIMEY PHYLLITE

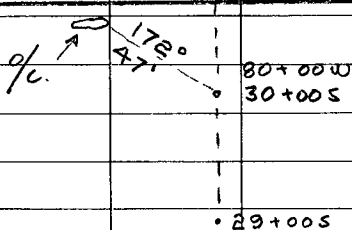
Bedding $\sqrt{230/14SE}$

MS.-J.F.-6: Foliation $\sqrt{322/29^{\circ}SW}$

Fairly well developed foliation

- biotite along foliation - Qtz appears to have been rextalized

BANDED QUARTZITE



Mill Site Geology

Aug 26/66

MS-JF-7: Foliation $270^{\circ}/14^{\circ}$ S

The rock is very limy - phyllitic
bands - LIMEY PHYLITE

On $5+00E/4+00S$ the line $96+00W$
 $/27+52$ intersects

Azimuth of $5+00E = 004^{\circ}$

Azimuth of $96+00W = 020^{\circ}$

MS-JF-8: A9 $5+00E/3+50S$ BANDED QUARTZITE

MS-JF-9:

A9 $96+00W/29+75S$, o/c - same as
MS-JF-8 No attitude obtainable
on either of these o/c - no sample
taken

The specimen has phyllitic bands
BANDED QUARTZITE

Aug 27 / 66

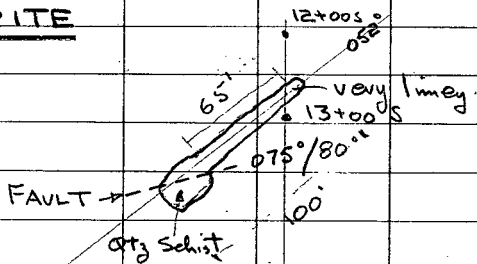
Mill Site Geology

MS-JF-10: Appears to be a QUARTZ SCHIST or QUARTZITE - phyllitic in places. - At 5700E/11+50S. Foliation 084°/29°S. Foliation appears to follow bedding. Abrupt change in slope of topog at this point - slightly limey.

MS-JF-11: Foliation (bedding) 097°/25°S. BANDED QTZITE

MS-JF-11-A: Foliation 117°/22°S. This specimen appears to be more siliceous than MS-JF-11

BANDED QTZITE



5700E intersected

Faro CK at 16+00S

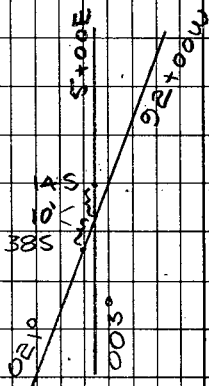
5700E

Mill site

Geology

Aug 27/66

Intersection of lines 5+00E
and 92+00W



MS-JF-12: Same as MS-JF-11:

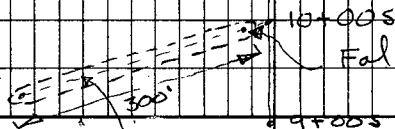
Foliation 079/11'S

BANDED
QTZITE

This rock in places is very siliceous
and in other places is very
limey. - At 10+00E/9+00S.

LIMEY PHYLLITE.

At station 10+00E/10+00S
10+00E



Foliation 125/38SW.

LIMEY PHYLLITE - Foliation 133/26°SW.

Mill Site Geology

MS-JF-13: Very limy
at 11+50 S on 10+00 E

Foliation (Bedding) - none
well enough exposed.

LIMEY QTZITE

MS-JF-14: On west end of c
from MS-JF-13

Foliation (Bedding) - 120°/26° SW

BANDED QTZITE

MS-JF-15: Slightly limy

Foliation (Bedding) - 085°/19° S

BANDED: QTZITE

MS-JF-16: Very limy

Foliation (Bedding) 115°/12° SW

At 88+00 W / 28+00 S.

BANDED QTZITE

Mill Site Geology - Aug 29/86

MS-JF-17: LIMEY PHYLLITE

Very similar to MS-JF-2
line 5+00E/1+00N

MS-JF-18: Very siliceous with
dark bands - BANDED

QUARTZITE - line 5+00E/2+20N

check foliation.

MS-JF-19: Very siliceous with dark
bands - BANDED QUARTZITE

MS-JF-20: Well developed foliation
- green - very schistose

AMPHIBOLITE SCHIST

unable to get attitude on
foliation

MS-JF-21: Same as MS-JF-20 - becomes
increasingly gneissic

MS-JF-22: Same as MS-JF-20 -

Foliation 302/33 SW (F)

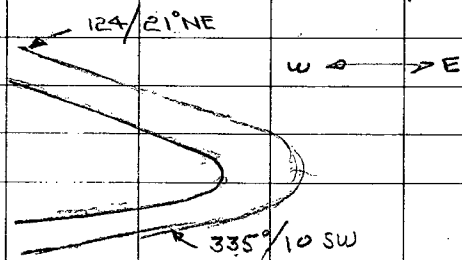
Mill site Geology Aug 29/66

MS-JF-23: Very gneissic - contains
green minerals - AMPHIBOLITE
GNEISS - also has blebs
of white to pinkish minerals
which could poss. be felds.
At 10+00 E/5+00 N.

MS-JF-24: AMPHIBOLITE SCHIST →
GNEISS

Bedding... 124/21° NE - 30' down
trench from 10+00 E/2+00 N
Find MS-JF-24A interbedded
with the amphibolite schist

At station 10+00 E/2+00 N - Section



Mill Site Geology Aug 29/66

MS-JF-25: AT station 10+00 E / 0+20 N

BANDED QUARTZITE

MS-JF-26: Appears to be an
AMPHIBOLITE SCHIST - green
with fairly well developed
foliation
Foliation $085^{\circ}/30^{\circ}S$

MS-JF-26A - $080/19^{\circ}S$

Probably grad. 080 } Two specimens, green, foliation
same rock } black - Gissite

MS-JF-26 Appears to be under
lam by banded quartzite

MS-JF-27: AT station 15+00 E / 6+00 S

Foliation - $100/26^{\circ}S$

AMPHIBOLITE SCHIST

% again at 6+50 S on 15+00 E

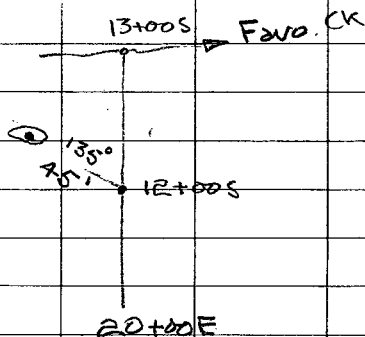
Mill Site Geology

MS-JF-28: Phyllite bands -
LIMEY BANDED QTZITE
Foliation $\sqrt{162/14 W}$
Line 20+00E / 1+00S.

MS-JF-29: LIMEY BANDED QTZITE
Foliation $\sqrt{148/12 SW}$
Very limey in places and
quartzitic in others

MS-JF-30: Foliation 055/19°S. (P)
20+00E / 8+00S.
Greenish - could be
AMPHIBOLITE SCHIST

MS-JF-31: Is MS-JF-6 -



Mill Site Geology.

The structure appears to cross line 20+00E between 1+00S and the base line

MS-JF-32: Intrusive - med green
QUARTZ DIORITE

2+00N 080° MS-JF-32
35°

3+00N 84° MS-JF-33
092°

20+00E

MS-JF-33: At contact between
Intrusive & metaseds.

Foliation 056°/15° SE

LIMEY PHYLLITE

Also appears to be some
jointing - 058°/76° NW.

MS-JF-34: Intrusive - same as
MS-JF-32 - small blebs
of pyrrhotite.

MS-JF-35: Banded with phyllite
BANDED QTZITE
Appears to be quite
limy - No attitude or
foliation taken.

MS-JF-36: At station 2+00N on
line 15+00E - AMPHIBOL-
ITE SCHIST - Foliation
000°/15°E

MS-JF-37: Phyllitic bands - BANDED
QTZITE - No attitude
taken.

MS-JF-36: - The rocks in this
o/c have been well folded
- much drag folding - this
would explain the inconsis-
tent attitudes

MS-JF-37: BANDED QTZITE
Foliation $138/16^{\circ}$ SW.

MS-JF-38: BANDED QTZITE - some
slaty sections -
Foliation $085/19^{\circ}$ S

TOPO. SYMBOLS.

or

====

Road.

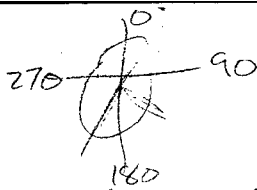
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Drill Hole.

GEOLOGIC SYMBOLS

- ⊥ : Strike and dip of bedding
- ↗ : Strike and dip of foliation
- ⊥ : Strike and dip where bedding ||s foliation
- : Strike and dip of joints
- : Strike of vertical joints

$$\begin{array}{r} 52 \\ 25 \\ \hline 260 \\ 104 \\ \hline 130.0 \end{array}$$



235 - 170

267

cos θ

292
47 - 50

53 x 2.5
69 x 2.5

$$\frac{2 \sqrt{60}}{\sqrt{130}}$$

$$\frac{\sqrt{3}}{2}$$

$$\frac{1.41}{2} = \sqrt{.766}$$

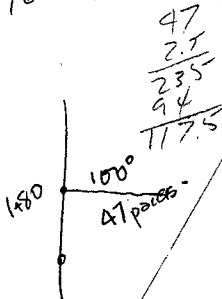
$$\begin{array}{r} 53 \\ 25 \\ \hline 265 \end{array}$$

$$\begin{array}{r} 69 \\ 25 \\ \hline 175 \end{array}$$

31 paces
to 96w/185

$$\begin{array}{r} 106 \\ 1325 \end{array}$$

075° / 22° NW



$$\begin{array}{r} 47 \\ 2.5 \\ \hline 235 \\ 94 \\ \hline 117.5 \end{array}$$