

UTAH MINES LTD.

JOE GLODES PROPERTY, NEWFOUNDLAND

NTS: 12 A/16

HOLE NO:	JG-4-1	Date Started:	Feb. 15, 1987
Coordinates:	L4N/5.75W	Date Finished:	Feb. 18, 1987
Inclination:	-45	Total Depth:	450'
Bearing:	108°	Logged By:	P. Legein

INTERVALGEOLOGY

0 - 52'

Overburden

B casing pulled! no access

52 - 89'

Reddish brown, felsic volcanic

- Reddish brown, massive aphanitic to fine grained felsic volcanics with trace-1% mafics
- Abundant chloritic fractures in all
- Orientations averaging 1-2mm thick
- Chloritic carbonate fracture breccia zone up to 2' thick.
- Felsic volcanics massive but rare lamination seen @ 74.5' @ 30° to core axis
- Red colouring likely hematite
- Sulphide, trace medium grained blebs of pyrite in felsic volcanics and in chlorite fracture.

-62' - 1" chlorite/calcite fracture filling

-64-67' - fine grained granular felsic volcanics

-70' - slightly bleached fracture (minor silicification).

-74.5' - finely laminated @ 30° to core axis

-75-76' - 1% medium grained blebs of Pyrite

-83' - rare medium grained blue quartz phenocryst

SAMPLES

70.0 - 75.0 #4501

75.0 - 76.0 #4502

76.0 - 81.0 #4503

89 - 114'

Breccia Zone (Fault Zone)

- Alternating intensely fracture felsic volcanics and brecciated felsic volcanics in a matrix of chlorite (80%) calcite (20%) breccia gouge.
- Slickenslide seen on several chlorite surfaces.

-89-92' - Breccia

-92-95' - Intensely fractured

-95-102' - mix fractured & brecciated rock

SAMPLES

89.0 - 100 #4504

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<u>INTERVAL</u>	<u>GEOLOGY</u>
89 - 114'	<u>Breccia Zone (Fault Zone) (continued)</u> - Alteration; noticeable silicification @ 111' - Sulphide - none. -100' - well developed chlorite slickenslide -102-105'- breccia -105-111'- intense fracturing -111-114'- breccia abundant chlorite, pale green silicified felsic breccia fragments <u>SAMPLES</u> 100 - 107 #4505 107 - 114 #4506
114 - 157'	<u>Reddish brown, felsic volcanics</u> - Same as 52' - 89' - 138' - Thin greenish bands (bedding) alternating with red brown felsics @ 30° to core axis
157 - 203.5'	<u>Fine Grained Massive Mafic Volcanics</u> - Massive fine grained to slightly porphyritic with 20% medium grained plagioclase phenocrysts - Upper contact brecciated (flow top breccia?) with contact parallel to bedding lamination in overlying felsic volcanics @ 30° to core axis - Mafic volcanics brecciated and silicified in places - No sulphides -164' - silicified mafic breccia -166.5-168' - fractured silicified zone, abundant calcite filled fractures -179' - chlorite carbonate filled fractures -182-188' - hematized intrusive volcanics - 20% mafic slumped, upper contact @ 30° to core axis. Lower contact irregular -197' - slickenslide on fracture @ 45° to core axis. Fracture hematized (or weathered) -197.5-200' - intensely fractured with calcite filling
203.5 - 247'	<u>Fine-Medium Grained Granite</u> - Reddish pink massive medium grained with abun- dant chlorite fractures - 10% quartz, 90% feldspar, hematized - No sulphide or pervasive alteration

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- 203.5-206' - brecciated granite with abundant chlorite fracture, mafics appear to be invading granite? (is this by mafic intrusion or assimilation of mafic?)
- 219 - 220' - Brecciated granite with abundant chlorite
- 221-224.5' - brecciated granite with 40% chlorite gouge.
- Lower contact at 25% core axis. No change in grain size or evidence of a chill margin
- 1" band of chlorite with quartz/carbonate vein parallel to contact.

SAMPLES

203.5 - 206	#4507
219.0 - 220	#4508
221 - 224.5'	#4509

247 - 450'

Fine grained massive mafic volcanic

- Dark green, fine grained with 25-35% medium grained dark green chlorite clots - massive - no schistosity.
- Fine grained salt and pepper texture
- Occasional slightly porphyritic with fine grained plagioclase phenocrysts
- Vein and in places brecciated with calcite fillings
- No pervasive alteration
- No sulphides
- 247' - grain size section of light grey silicified mafic (contact metamorphism)
- 260-261' - 1' breccia zone with up to 40% calcite filling
- 270-271' - brecciated granite same as 203.3-247'.
- 280' - Abundant hematized calcite veins up to 1"
- 290' - 4" interval with 80% calcite fracture fillings
- 307-316' - brecciated medium grained - fine grained red granite fragments in mafic volcanic matrix, silicified in parts. Granite fragments up to 1-3", make 5-80% of rocks
- 333-334' - brecciated granite 40% granite fragments - 40% quartz calcite filling (some fragments appear to be altered basalt)

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- 399' - chlorite calcite fracture 1" wide @
45° to core axis
- 418' - 2" light grey intraflow sediment
massive aphanitic contacts @ 45° to
core axis
- 425.5-434.5' - mafic-intermediate sill, massive
fine grained, aphanitic
 - fine grained chill margin up to 2'
wide
 - 20-30% mafic
 - medium grained quartz eyes @ 430.0'
 - contacts @ 10-30° to core axis
discordant (dyke)!
- 434.5-439' mafic volcanic breccia
 - red granite fragments @ 436'
- 444-445' - 1' slightly sericitized and hema-
tized mafic volcanic with quartz
carbonate veins
 - weathered flow top (tops down hole)

SAMPLES

307-316'	#4509
333-334'	#4511
336-340'	#4512

450' - END OF HOLE

NOTE: Dip test at 4501 apparent angle = 52°
true angle = 44°