

UTAH MINES LTD.

JOE GLODES PROPERTY, NEWFOUNDLAND

NTS: 12 A/16

HOLE NO:	JG-1-1	Date Started:	Feb. 20, 1987
Coordinates:	L14N/8.75W	Date Finished:	Feb. 22, 1987
Inclination:	-45	Total Depth:	500'
Bearing:	288°	Logged By:	P. Legein

INTERVALGEOLOGY

- | | |
|-----------|---|
| 0 - 46' | Overburden |
| 46 - 309' | <p><u>Fine to Medium Grained Mafic Volcanics</u></p> <ul style="list-style-type: none"> - Dark green massive fine to medium grained equigranular - Holocrystalline hypidiomorphic - 65% plagioclase, 35% mafic, chlorite after pyroxene - Thin 2-5 mm calcite fracture fillings often with hematitized margins (weathering?) found throughout at all orientations - Unit moderately magnetic, trace magnetite - No banding or schistosity - No sulfides <ul style="list-style-type: none"> - 75-80.5' - pervasively hematized medium grained mafic, rusty brown with 10-25% calcite veins - 87.5-99.5' - aphanitic-fine grained mafic volcanic <ul style="list-style-type: none"> - 60% brecciated (flow top breccia?) - 87.5-96' with fine grain mafic breccia fragments up to 20m in mafic matrix - contact irregular 40-80° to core axis - 105-107' - mafic flow breccia - 108-120' - feldspar grains selectively hematitized (red potassium feldspar look alike) - from 120' - onwards downhole <ul style="list-style-type: none"> - mafic volcanic 5-20% hematized, though often related to calcite fractures, hematization can often be pervasive without abundant calcite veining form rusty brown patches. No sulfides - 131-133' - 5-20% hematized mafic volcanics - 152' - hematitized mafics - 163-165' - pervasively hematized mafics - 178' - alternating fine grain to aphanitic mafic volcanics and medium grained mafic volcanics |

JG-1-1 DRILL LOGS

INTERVALGEOLOGY

- medium grained sections likely mid section of flow with fine grain flow top and bottom
 - 220-228' - porphyric mafic with 20% medium grained chlorite clots
 - 243-245' - moderately hematized section of mafic volcanics
 - 281' - 2' flow breccia
 - 286' - 1' flow breccia
 - 288-309' - mafic volcanic breccia with hematized mafic fragments up to 2 cm (60-70%) in green matrix
- 309-365'
- Intermediate Felsic Crystalline Lithic Tuff
- Massive green granular texture medium to coarse grained quartz (10%), feldspar (40%), crystal tuff fragments aphanitic light green tuff matrix with up to 25% chlorite mafics
 - Abundant (up to 10%) chlorite fractures, 1-2 mm wide throughout
 - Brown hematized sections with up to 80% brown staining
 - Chlorite appears bright apple green in places
 - Lithic fragments
 - 0-10% chloritized aphanitic lithic fragments up to 5 mm in length
 - Dark grey, black brown hematite (aphanitic to very fine grain) in hairline fractures and as occasional medium grained clots marking up 5% of rock (may have trace sphalerite associated to hematite?)
 - 309' - contact orientation not discernable in broken core
 - 323-333' - volcanic breccia
 - 20-80% angular lithic fragments of intermediate and felsic volcanics up to 1' in intermediate matrix
 - 338' - Brecciated section with 2% fracture filled hematite
 - 340-344' - 5% bright green chlorite, trace 1% hematite in hairline fractures, abundant at 343'
 - 349-350' - 1" bright green aphanitic massive felsic tuff or chert
- SHARP UPPER CONTACT AT 65° TO CORE AXIS
- 351' - bright green aphanitic tuff appears partially brecciated

SAMPLES

309-315' #4513
 315-323' #4514
 323-333' #4515
 333-340' #4516
 340-349' #4517
 349-356' #4518

JG-1-1 DRILL LOGS

INTERVALGEOLOGY

355-385'

Slightly Schistose Intermediate Tuff

- Green-dark green fine grained grainy, massive to slightly schistose at 60° to core axis
- Mafic content 15-20% chlorite in clots (grainy texture)
- Partially hematized in sections in following forms:
 - 1) Brown pervasive hematite stain
 - 2) Hematized fractures
 - 3) Hematite clots (fine-medium grained)
- Fine grain plagioclase and quartz grains make up to 10% of rock
- 364.5' - Brecciated intermediate tuff with hematite fragments up to 2 cm in light green tuff matrix
- 369' - intermediate crystal tuff with 5% quartz and 15% feldspar crystal fragments, sharp upper contact 70° to core axis, 1.5' thick, lower contact gradational
- 374-385' - homogenous non-hematized intermediate tuff

SAMPLES

356-364.5' #4519
 364.5-369' #4520
 369-374' #4521

385-408'

- Medium-Course Grained Grandodiorite
- Mottled pale grey to dark green extremely granular texture (granite appearance)
- 5% coarse grained quartz phenocrysts, 40% feldspar phenocrysts, 20% medium grained chlorite clots
- With fine grained grey ground mass 10-15%
- Hematite in fractures

(NOTE - could also be crystal lithic tuff!!)

- 385' - No chill margin?!
 concordant contact at 65° to core axis, contact some what gradational!
- 390-394' - abundant hematite filled fractures
- 404-408' - Granularity decreases toward lower contact

SAMPLES

390-394' #4522

408-433'

- Slightly Schistose Intermediate Tuff
- (Same as 356-385')
- No hematization, schistosity at 50° to core axis
- 417.5-418.5'-light green intermediate tuff

JG-1-1 DRILL LOGS

INTERVALGEOLOGY

- 418-425' - intermediate to felsic crystal lithic tuff
- 425-433' - massive aphanitic intermediate tuff, sharp lower contact at 50° to core axis
- 433-442' - Intermediate-Felsic Crystal Lithic Lapilli Tuff
- Mottled dark and light green
- 0.5% quartz crystal fragments (fine-course grained)
- 20-30% feldspar crystal fragments (fine-medium grained)
- 20% felsic lithic fragments 2-15 mm
- 15-20% chlorite clot 1-5 mm in diameter
- Slightly schistose, schistosity at 50-55° to core axis

SAMPLES

433-442' #4523

458.5-476'

- Fine-Medium Grained Mafic Volcanics
- Fine-medium grained massive equigranular
- Dark green
- Brecciated in places
- 470-473' - fractured and brecciated
- 473' - 1" section with 70% hematized

476-494'

- Intermediate Crystal Lithic Lapilli Tuff
- Mottled dark green
- 0-5% coarse grained quartz crystal fragments
- 0-20% medium grained feldspar crystal fragments
- 20% chlorite
- 0-40% intermediate lithic fragments up to 3 cm

494-500'

- Felsic Pyroclastic Breccia
- Mottled light and dark green, 40-80% felsic lithic fragments up to 2 cm, 10-20% light brown felsic fragments
- elongation of fragments aligned at 50° to core axis (nice rock, no sulfide)
- 20% chlorite clot

*** END OF HOLE ***

COMMENTS: DIP TEST at 500' apparent angle 56° True Angle 48°
Casing Pulled

PL/am