





































# DIAMOND DRILL RECORD

LOGGED BY JOHN C. LUND

PROPERTY KNIGHT CLAIM GROUP

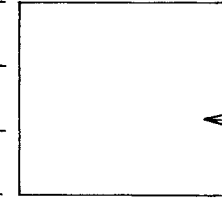
D.D.H. No. 77 - 3 PAGE 1 of 3

LATITUDE L 2160 N BEARING OF HOLE \_\_\_\_\_ STARTED February 26, 1977

DEPARTURE 278 E DIP OF HOLE - 90<sup>0</sup> COMPLETED March 2, 1977

ELEVATION 1447.8 (4750') DIP TESTS \_\_\_\_\_ DEPTH 107.9 m

CORE SIZE BQ



CLAIM No. KNIGHT #1

DIRECTION AND DISTANCE FROM  
NE. CLAIM POST

FOOTAGE		Depths in metric only	DESCRIPTION	SAMPLE No.	FOOTAGE meters		SAMPLE LENGTH	U <sub>3</sub> O <sub>8</sub> ASSAY	
FROM	TO				FROM	TO			
0	1.83		Casing. (1.51 m of Overburden)					ppm	
	3.5		<u>Dark Green - Black Basalt.</u> Possibly olivine-bearing						
	9.55		<u>Basalt</u> as above. (Spec at 4.69)						
	23.61		<u>Basalt.</u> Alteration on fractures soft green possibly serpentine (Spec at 21.57)						
	33.72		<u>Volc. bcc. or Agglomerate:</u> Red-brown to brick red. Some fragments vesicular. Last 12 cm is massive basalt. (Spec at 32.22).						
	39.32		<u>Basalt</u> with small laths of feldspar; Alteration on fractures. This basalt same as in hole 77 - 1.						
	47.85		<u>Basalt</u> as above: Fld. laths increase at 44.8, serpentine (?). Alteration on fractures. Occasional vug. (Spec. at 42.20).						
	67.66		<u>Basalt</u> with fld. phenocrysts and laths. Rc. becoming less fractured. Decrease fld. from 64.62.	321	87.48	89.3	meters 1.82	1.42	
				322	89.3	92.35	3.05	0.94	
	87.78		<u>Basalt</u> with fld. laths to 87.48 then 30 cm of green-grey clay with enclosed sand grains and pebbles. Pebbles include sst, siltstone, granitic material and gneiss. In the last 5 cm of basalt the Fld. laths are altered to clay mins. (25 cm of core lost at base of basalt).						
	90.83		<u>Polymictic Pebble conglomerate:</u> Pebbles of siltstone, sandstone, granitic material and gneiss cemented in a sandy clay matrix.						







# DIAMOND DRILL RECORD

LOGGED BY TATS TAKEDA

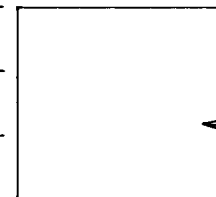
PROPERTY KNIGHT CLAIMS

D.D.H. No. KNIGHT 77 - 4 PAGE 2 of 6

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE <i>m/feet</i>		DESCRIPTION	SAMPLE No.	FOOTAGE <i>Meter</i>		SAMPLE LENGTH	ASSAY				
FROM	TO			FROM	TO						
32.31	37.80	and 33.85 - 35.05m contain wad and locally completely altered to the mixture of wad and lesser cavity-filling talc (?) in pale green colour. Cracks by drying. Gradational change to the next.			32.31m	18 - 20	C.P.S.				
(cont'd)					33.22m	18 - 20	C.P.S.				
37.80	43.13	Basalt. Dark grey coloured. Fine grained. Fairly magnetic. Irregular cracks filled with serpentine films common which make core blocky. 39.01 - 39.93 m -- Frequent wavy slips of serpentine, more or less 30 - 40° to C.A.			41.45m	24 - 26	C.P.S.				
43.13	44.04	Mainly vesicular volcanics. Fairly magnetic. Similar to 32.31 - 37.80m, wad and pale green talc present.									
44.04	45.11	Basalt. Dark grey coloured. Fine grained. Fairly magnetic. Wavy cracks coated with serpentine, more or less at every 10 cm interval.									
45.11	46.63	Lost core.									
(46.63)	48.16)	Only 60 cm core recovered.									
46.63	46.94?	Dark grey basalt, similar to 44.04 - 45.11m.									
46.94?	48.16	Vesicular basalt. Brick red coloured mostly. Gas pores open and coated with bluish grey film. Minor pale coloured, soft section networked with grey waxy veinlets (talc?)			49.68						
48.16	55.17	Brick red coloured, vesicular volcanics (70%) and dark greenish grey, fine grained compact basalt (30%) in mixture; Both magnetic. Chlorite and radial zeolite (1mm dia.) in irregular cracks in basalt (20° to C.A. mainly). Reddish coloured, vesicular, scoriae present in brick red matrix and linked gas pores now filled with dark green chlorite and pale green waxy mineral (talc?)			48.16	49.68	Lost 60	cm of core.			
					49.68	51.21	Lost 15	cm of core.			
					51.21	52.73	Lost 15	cm of core.			

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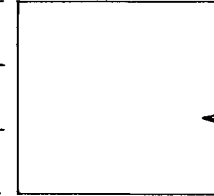
PROPERTY KNIGHT CLAIMS


D.D.H. No. KNIGHT 77 - 4 PAGE 3 of 6

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_



CLAIM No. \_\_\_\_\_  
  
 ← DIRECTION AND DISTANCE FROM  
 NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
4 8.16	55.17	(cont'd) (Cemented three times, but could not stop loss of water in the hole. Decided to haul water by truck five or six times per shift.)		52.73	54.25	Lost 120 cm of core.				
				54.25	55.17	Lost 75 cm of core.				
55.17	58.83	Olivine Basalt. Dark grey coloured. Fine grained. Compact. Sporadical olivine phenocrysts up to 2 mm x 4 mm in size. Least fractured good run.								
58.83	94.70	Olivine Basalt. Greenish grey coloured. Compact and almost solid. Abundant olivine phenocrysts in aggregate up to 12mm x 5mm at 90.83m. 1 - 2% in volume. Fairly magnetic. Dark green chlorite mixed with hematite in cracks @ 5 - 10% to C.A. --- 66.14 - 66.29 m, 67.82 - 68.28 m and 75.74 - 76.20 m. Also 82.90 - 83.21 m (Chlorite only).								
	(93.88)	Pyrite film in a quartz hairline @ 10° to C.A.		93.88	-	18-21	C.P.S.			
94.70	107.59	Mainly pale green coloured sediments		94.79		20-22				
(94.70	95.10)	Pale grey coloured, silty sediments with fine siliceous grains. Abrupt change from the 3 cm wide bleached zone of fine grained basalt. Contact irregular and wavy @ 45° on average.								
(95.10	95.71)	Mainly mudstone. Angular fine chips of mudstone erratically scattered in light brownish grey coloured mixture or sandstone and lesser clay.		95.40		23-25				
(95.71	96.93)	Gouge. Greenish grey coloured. Upper contact @ 70° to C.A.		96.62		20-23				

# DIAMOND DRILL RECORD

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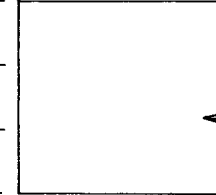
PROPERTY KNIGHT CLAIMS

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LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO								
96.93	98.45?)	Angular small mudstone chips (10%) and rounded fragments of pale, feldspathic altered rock in light greenish grey matrix of coarse arkose sand and clay. Soft.											
(98.45?	107.59)	<u>Greenish grey coloured silty sediments</u> Rare mudstone chips and light grey felsic fragments near 106.07m. Coarse sandy material with chlorite indicate bedding @ 85° to C.A. Sticky and scratchable.											
107.59	116.43	<u>Mainly brownish grey coloured sediments</u> Intensely crushed into messy aggregate of: (i) Angular dark mudstone chips 10 - 30% (ii) Chloritized greenish grey fragments (mostly 2 cm in diameter) 3% (iii) Coarse sand - pebble of leucocratic felsic granular rock origin and clay as matrix. (iv) Locally, unconsolidated pebble stone		107.90		20-22	C.P.S.						
	(108.45)	---- A piece of lignite		108.20	with lignitic coal	18-21							
	(109.12)			109.12		20-24							
(110.64	110.80	Lignite bearing soft, silty sandstone @ 80° to C.A.											
(113.69	116.13	Parallel alignment of platy chips of mudstone in light brownish grey coloured sandstone - pebblestone.		117.71	112.47	19-23							
				112.78		20-24							
(113.69	114.15	114.3, & 114.6m) Rare rounded fragments of felsic porphyry. More or less 4 cm across in this section of pebblestone. Trace pyrite bearing.		113.69		20-22							
				114.91		18-21							





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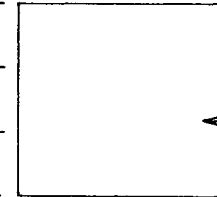
PROPERTY KNIGHT CLAIMS

D.D.H. No. KNIGHT 77 - 4 PAGE 6 of 6

LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_



CLAIM No. \_\_\_\_\_

DIRECTION AND DISTANCE FROM

NE. CLAIM POST

FOOTAGE <i>m dev</i>		DESCRIPTION	SAMPLE No.	FOOTAGE <i>m.</i>		SAMPLE LENGTH	ASSAY			
FROM	TO			FROM	TO					
(132.89) 132.89	136.55	Pale, light coloured, altered rock More argillic alteration for the first 60cm and then more silicified section with minor dissemination and stringers of pyrite		133.50	135.03	15-18				
136.55	141.12	<u>Monashee Group rock</u> Chloritized and locally pink feldspathized mottled rock. No biotite present Intensely crushed sporadically.		138.07		18-20				
		End of Hole								

Instrument used: *on drill core*

Portable Gamma Ray Scintillometer  
(Model GRS-101)  
Manufactured by EXPLORANIUM.

*Instrument used: on bore hole*

*Exploranium GR-410 Gamma Ray Spectrometer*









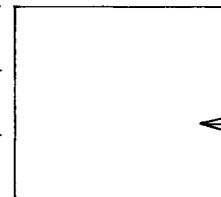




# DIAMOND DRILL RECORD

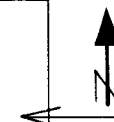
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PROPERTY \_\_\_\_\_  
 LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ DIP OF HOLE - 90° COMPLETED MARCH 27, 1977  
 ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_



D.D.H. No. Knight 77 - 6 PAGE 3 of 5

CLAIM No. Knight #1



← DIRECTION AND DISTANCE FROM  
 NE. CLAIM POST

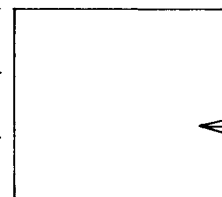
FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	ASSAY						
FROM	TO			FROM	TO								
64.31	64.92)	Several sections of greenish sheared clay.											
(64.38	65.84)	Grey, gougey section.											
71.63	87.02	Olivine basalt. Fairly magnetic lava. Abundant occurrence of olivine aggregates up to 5mm x 20mm, 5% in total volume. Rare cracks filled with dark, green coloured chlorite mainly. Most of cracks irregular, wavy and sub-parallel to core axis.											
(85.04	-86.41)	Gradual decrease of olivine phenocrysts in aggregate.											
(86.41	-87.02)	Almost no occurrence of olivine. Transitional change to next.											
87.02	93.12	Agglomerate. Weak - negligible magnetism. Colour variable from brick red to grey through purplish grey. Enclosed scoriae lighter coloured than matrix. Irregular vesicular cavities decreasing towards bottom with gradational change to next. No limonite stain.											
103.12	99.12	Fine grained basalt. Dark greenish grey coloured lava. Compact. Fairly magnetic. Thin chlorite coating on cracks.											
*99.12		Bottom of basaltic capping. Contact @ 65° to C.A. Only 1 cm wide faded colour zone on both sides.											
99.12	129.84	Sediments. Dark brownish - light grey coloured. Magnetism negligible.											
(99.12	- 99.97)	Mudstone. Dark brownish grey coloured.						Lost					
(99.97	-103.02)	Lost core completely.			99.97m	103.02m	3.05m	core					



# DIAMOND DRILL RECORD

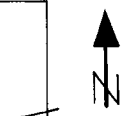
LOGGED BY \_\_\_\_\_

PROPERTY \_\_\_\_\_  
 LATITUDE \_\_\_\_\_ BEARING OF HOLE \_\_\_\_\_ STARTED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ DIP OF HOLE \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP TESTS \_\_\_\_\_ DEPTH \_\_\_\_\_



D.D.H. No. \_\_\_\_\_ PAGE 4 of 5

CLAIM No. \_\_\_\_\_



← DIRECTION AND DISTANCE FROM  
 NE. CLAIM POST

FOOTAGE		DESCRIPTION	SAMPLE No.	FOOTAGE		SAMPLE LENGTH	GRS-101 Gamma		ASSAY Ray Spectrometer Log	
FROM	TO			FROM	TO		Ag	At	St	on Drill Core
103.02	- 104.58	Mudstone. Lighter brownish grey coloured. Containing rare pale green tuffaceous chips.		103.02	104.55	1.10				
(104.58	- 106.34)	Pebbles and angular platy chips of sandstone and lesser mudstone in very light brownish, grey arkosic sand and clayey matrix.								
(106.34	- 108.51)	Greenish grey coloured tuff. Coarse sandy grains mixed.		106.07	107.59	0.75	108.51 <sup>m</sup>	24-28	C.P.S.	
(108.51	- 109.73)	Pebbles and small gravels in light brownish coloured matrix of arkosic sandstone and minor mudstone. Poorly consolidated.		109.12	110.64	0.3	109.12	25-33	C.P.S.	
(109.73	- 111.40)	Light grey coloured arkosic sandstone with faint brownish tint. Contact at 111.40m @ 75° to C.A.		110.64	112.17	0.3				
(111.40	- 111.59)	Sticky clayey tuff. Light greenish grey coloured.		112.17	113.69	1.5				
(111.59	- 116.74)	Pebblestone. Light brownish grey - pale greenish coloured. Sticky clayey matrix mixed with some sandy material. No core from 112.17 to 113.69m.		113.69	115.21	1.1				
				115.21	116.74	0.6				
(116.74	- 118.29)	Sticky clay. Very light brownish grey coloured. At 117.44m cocoa brown coloured, rotten wooden ships replaced by limonite					118.29	24-28	C.P.S.	
(118.29)		Banded contact @ 75 - 80° to C.A.								
(118.29	- 122.83)	Pebbles in coarse, grained arkosic sandstone. Light brownish coloured. 120.85 - 121.01m, heavily limonitized chips of rotten wood origin.		118.26	119.79	0.60m	120.70	24-28	C.P.S.	
(122.83	- 125.88)	Transitional zone? Very poor core recovery. Lost 85% of core.		122.83	124.36	1.30				
(125.88	- 126.95)	Sheared arkosic sandstone with thin layers of brownish dark grey mudstone. @ 45° to C.A.		124.36	125.88	1.30				

