

LAFFERS OPTION - North Heemskirk

DATE : 15 January 1997

SURFACE RL : 179m

COLLAR CO-ORDINATES : 5369405mN/345310mE

BIT DIAMETER : 15cm

BASEMENT R.L.: 114m

DIAMOND DRILLING TAS PTY LTD - TRACK-MOUNTED UDR 650 RIG

THEORETICAL VOLUME : 10.4 l/m

DEPTH TO BASEMENT: 65m??

GEOLOGIST / SAMPLE WASHER : Revel Munro

METHOD : RC/DTHH (face-sampling) bit

DEPTH DRILLED : 70m

DRILLER : Tony Cherry

Whole of Hole Grade (g SnO2/cu m)	54.1
Whole of Alluvials Grade (g SnO2/cu m)	47.4

DEPTH (m)		THEORET.	REC.	PANNED	CON. Sn	CALC. SnO2	GRADE	CUM.	OVERSIZE	SAMPLE	OVERSIZE
FROM	TO	VOL. (l)	VOL. (l)	CON. (g)	ASSAY (%)	WEIGHT (g)	(g SnO2/m3)	GRADE	LITHOLOGY	LITHOLOGY	(%)
0.0	2.0	20.8	3	190.5	0.04	0.11	35.03	35.0	Milky qtz-rich rubble	Soil, lt gy silty OS	40
2.0	4.0	20.8	0	0	0.00	0.00	0.00	17.5	No sample	Soil, lt gy silty OS, basalt fragments	
4.0	6.0	20.8	1	207.5	0.04	0.11	114.48	49.8	Fresh to partly weathered basalt	Yellow cy, sand, basalt frags - poor recovery	40
6.0	8.0	20.8	1	182.5	0.04	0.10	100.69	62.6	Fresh to partly weathered basalt	Yellow cy, sand, basalt frags - poor recovery	25
8.0	10.0	20.8	1	68.5	0.02	0.02	18.90	53.8	Fresh to partly weathered basalt	Yellow cy, sand, basalt frags - poor recovery	30
10.0	12.0	20.8	3	113.0	0.13	0.20	67.54	56.1	Fresh to partly weathered basalt	Lt gy silt, basalt fragments	50
12.0	14.0	20.8	5	200.5	0.09	0.25	49.78	55.2	Fresh to partly weathered basalt	Lt gy silt, basalt fragments	20
14.0	16.0	20.8	23	127.5	0.21	0.37	16.06	50.3	Wood, py, qtz grit	Dk gy cy, silt, grit	10
16.0	18.0	20.8	12	265.0	0.01	0.04	3.05	45.1	Drift, granitic, v. qtz, qtzite	Dominantly grit	
18.0	20.0	20.8	15	234.0	0.09	0.29	19.37	42.5	Ang. qtz, qtzite, qtz grit	Lt gy gritty silt	70
20.0	22.0	20.8	14	196.5	0.17	0.46	32.91	41.6	Ang. qtz, qtzite, qtz grit	Dk gy gritty silt	50
22.0	24.0	20.8	16	173.5	0.16	0.38	23.93	40.1	Minimal ang. qtz, qtzite, qtz grit	Gy silty grit and OS	5
24.0	26.0	20.8	23	257.0	0.26	1.02	36.59	39.9	Ang. qtz, qtzite, siltstone, banded siltstone	Gy silty grit and OS; silt horizon	50
			5	373.0	0.02					Second sample bin for 2m interval	25
26.0	28.0	20.8	20	254.0	0.13	0.46	22.77	38.6	Qtz, siltstone grit, marcasitic wood	Horizons of gy silt and sandy grit	50
28.0	30.0	20.8	18	284.0	0.11	0.43	23.94	37.7	Qtz grit, ang. qtz, qtzite frags	Horizons of gy silt and sandy grit	
30.0	32.0	20.8	19	181.5	0.17	0.43	22.40	36.7	Qtz grit, ang. qtz, qtzite frags, py sst	Horizons of gy silt and sandy grit	
32.0	34.0	20.8	26	296.5	0.09	0.37	14.16	35.4	Grit, qtz, granitic grit, v. qtz, qtzite	Horizons of gy silt and sandy grit	40
34.0	36.0	20.8	19	242.5	0.04	0.13	7.04	33.8	Grit, qtz, granitic grit, v. qtz, qtzite, py	Horizons of gy silt and sandy grit	
36.0	38.0	20.8	3	262.5	0.02	0.07	24.14	33.3	Grit, qtz, granitic grt, v. qtz, qtzite, py, wood	Horizons of gy silt and sandy grit	60
38.0	40.0	20.8	33	225.0	0.16	0.50	15.05	32.4	Grit, qtz, granitic grt, v. qtz, qtzite, py, wood	Horizons of gy silt and sandy grit	60
40.0	42.0	20.8	30	283.0	0.61	2.38	79.37	34.6	Grit, qtz, granitic grt, ang. qtz frag	Horizons of gy silt and sandy grit; 41-coarse grit	60
42.0	44.0	20.8	19	311.0	0.19	1.79	45.79	35.1	Grit, qtz, granitic grit, ang. qtz frag	Coarse grit and OS	50
			20	227.0	0.31					Second sample bin for 2m interval	50

- NOTE:**
- Factor of 72.5% applied to calculate SnO2 grade, in g per cu m, from XRF Sn assay of panned concentrate.
 - Tin grades contained in sample interval at or below logged basement depth are added into alluvial sequence above.
 - Sample lithologies are listed in order of abundance.
 - OS = oversize (ie +3.5mm); v = vein material; tour = tourmaline.
 - Drift = sub-angular, equigranular particles with average diameter of approx 4mm; frequently derived from granitic rocks.
 - Bird's eye gravel = well-rounded granules and pebbles, frequently comprised of quartz.

* Circulation problems were experienced in drilling of hole LAF5, from a depth of 60m. Repeat reaming, use of foam and water injection were unsuccessfully applied to re-establish circulation. Circulation loss was possibly at intersection of basement. Large quantities of contaminated sample were blown up to surface from annulus of drill hole.

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