

DRILLING PROGRESS REPORT SORELL PENINSULA NODDY CK. (cont.)

Bore DHNC7 2000N
 Location 20N 149E OFFSET 19 feet N
 Bearing 108 $\frac{1}{2}$ ° TRUE
 Depression 45°
 R. L. Collar 802.7'
 Est. Total Depth 595'
 Footage for Period _____

Report No. 823136
 Period APRIL - MAY 1971
 Operator A.S. JAMES
 Unit E.D.E.C.O. 36
 Bit NQW/L STEP FACED
 Barrel NQW/L

From	To	Int.	Core Rec'd.	%	Core in Dip	Feet	Description
0	6.0	6.0	2.0	33.3		0	<u>Fine greywacke and siltstone,</u>
	8.0	2.0	0.5	23.0			weathered deformed and slightly
	14.5	6.5	1.0	15.4		50.5	<u>schistose.</u>
	19.0	4.5	0.5	11.1		50.5	As above but fresh
	24.5	5.5	2.5	45.5		52.0	<u></u>
	30.0	5.5	2.0	36.3		52.0	<u>Sheared gabbro. Possibly chlorite,</u>
	34.5	4.5	0.5	11.1			albite, amphibole rock \bar{c} CO ₃ vughs
	38.5	4.0	1.0	25.0		54.0	<u>and veins.</u>
	42.0	3.5	3.5	100		54.0	<u>Indurated siltstone and fine</u>
	45.0	3.0	3.0	100			<u>greywacke \bar{c} occasional CO₃ veins.</u>
	49.5	4.5	3.7	82.3			Many irregular microfolds and
	52.0	2.5	2.5	100		68.4	<u>microfaults deform the CO₃ veins.</u>
	54.0	2.0	2.0	100	71/L1	68.4	<u>Sheared gabbro \bar{c} diffuse</u>
	55.5	1.5	1.5	100	93		gradational contacts \bar{c} 4 veins of
	56.7	1.2	1.2	100			pale grey-green slip/cross fibre
	58.7	2.0	2.0	100		73.0	<u>to $\frac{1}{4}$" - may be amphibole.</u>
	59.7	1.0	1.0	100		73.0	<u>Sheared serpentinite, dark brown-</u>
	60.7	1.0	1.0	100			green to black, compact, hard \bar{c}
	62.0	1.3	1.3	100			many less than $\frac{1}{4}$ " CO ₃ veins,
	63.0	1.0	1.0	100	71/L1		disseminated magnetite and minor
	64.5	1.5	1.5	100	92		+ve D.M.G. sulphide disseminations
	67.0	2.5	2.0	80.0			at 83.8', 78.6', 93.0', 95.6',
	69.0	2.0	2.0	100			104.4'. Pyrite films are common
	71.5	2.5	2.0	80.0		105.0	<u>in the shears, -ve D.M.G. reaction.</u>
	72.5	1.0	0.6	60.0		105.0	<u>Lamprophyre \bar{c} biotite and horn-</u>
	73.5	1.0	0.7	70.0			<u>blende phenocrysts and xenoliths</u>
	74.0	0.5	0.5	100	71/L1		<u>of quartzite, garnet bearing gneiss,</u>
	75.5	1.5	1.5	100	89		granite and "ghosts". Margins are
	79.5	4.0	3.7	92.6	90		
	84.0	4.5	3.8	84.5	91	115.5	<u>richer in biotite and hornblende</u>
	89.5	5.5	4.8	87.4			

Remarks:

Date 22/4/71

Logged by JOHN G. LANGLANDS

DRILLING PROGRESS REPORT SOBELL PENINSULA NODDY CK. Branch

Bore DHNC7

Report No. 82318

187
3.0
4)
105.5
29.5
6)
151.5
7)
8)
9)
27.0
10)
250.5
11)
76.0
12)
200.0
13)
(322.3

Box	From	To	Int.	Core Rec'd.	%	Dip in Core	Feet	Description
3.0	89.5	95.0	5.5	5.0	91.0		115.5	<u>Massive talc serpentinite rock</u>
		101.0	6.0	6.0	100		117.0	
4)		105.0	4.0	4.0	100		117.0	<u>Sheared serpentinite, dark brown green, compact.</u>
105.5		111.5	6.5	6.5	100		123.2'	bleb +ve sulphide
		121.7	10.2	10.2	100		128.8	125.0' 8 blebs +ve Su.
		124.0	2.3	2.3	100		128.8	<u>Dark and deep green serpentinite</u>
29.5		131.5	7.5	6.5	86.6			̄ short ribbon and stockwork cross
		134.5	3.0	3.0	100		137.5	fibre.
6)		139.5	5.0	4.0	80.0		137.5	<u>Dark, hard sheared serpentinite</u>
		149.5	10.0	10.0	100		139.5	̄ magnetite.
151.5		153.5	4.0	3.2	80.0		139.5	<u>Serpentinite and partially</u>
		158.0	4.5	3.4	75.6	71/L		<u>serpentinised pyroxenite</u> ̄ ribbon
7)		164.5	6.5	5.6	86.2	88		and stockwork cross fibre of good length.
		171.5	7.0	7.0	100		177.7	<u>Barren pyroxenite 143.6' to 147.6'</u>
		180.5	3.0	1.9	64.4		177.7	<u>Dark and pale sheared serpentinite</u>
		182.0	1.5	0.8	53.2			̄ magnetite and minor slip fibre,
8)		185.0	3.0	1.0	33.3			minor disseminated sulphide at
		186.0	1.0	0.5	50.0		217.0	200.5 faintly +ve D.M.G. reaction.
		188.0	2.0	0.4	20.0	71/L	217.0	<u>Pale green and deep green, slightly</u>
		190.0	2.0	0.5	25.0	87		<u>sheared serpentinite</u> ̄ magnetite
		192.5	2.5	2.2	88.1			and minor localised slip fibre
		197.5	5.0	4.1	82.0			less than 1% long and brittle and talcose.
		202.0	4.5	4.2	93.4	71/L		Shear banding at 250', 50° to LCA
204.0		206.5	4.5	3.9	86.7	86		255', 40° to LCA
		212.5	6.0	5.6	93.4			265', 45° to LCA
		218.0	5.5	5.5	100		283.0	<u>Massive serpentinite, compact,</u>
		223.5	5.5	4.7	85.5			granular ̄ large scale (3") mottling
		233.0	9.5	9.0	94.6			in places. Minor soft, brittle talcose slip fibre throughout e.g.
27.0		241.5	8.5	8.5	100		283.0	306.5 3 x 1/4" veins ̄ 1" fibre.
10)		244.0	2.5	2.5	100			
250.5		254.3	10.3	9.3	90.3			
		264.3	10.0	10.0	100			
11)		274.3	10.0	10.0	100			
		284.3	10.0	10.0	100			
76.0		293.3	9.0	9.0	100	71/L		
12)		301.7	9.4	8.5	90.4	85		
200.0		312.0	10.3	10.3	100			
13)								

Remarks:

- (1) +ve sulphide/Su = positive D.M.G. reaction sulphide.
- (2) At 190' uphole from a ground away piece of core, two one inch pieces of siltstone core were found in the core box. These were removed because it was obvious they did not come from that part of the hole.

Date 22/4/71

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DRILLING PROGRESS REPORT SORELL PENINSULA NODDY CK. Branch

Bore DHNC7

Report No. 823188

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Box	From	To	Int.	Core Rec'd.	%	Dip in Core	Feet	Description
322.3 (14)	312.0	322.3	10.3	10.3	100		306.5	<u>Dark sheared serpentinite.</u>
324.5 (15)		332.0	9.7	9.7	100			Upper contact @ 30° to L.C.A. truncates the shearing. Minor talcose slip fibre.
328.0 (16)		342.0	10.0	10.0	100		308.5	<u>Massive serpentinite, pale grey green</u> \bar{c} disseminated and narrow vein stockwork magnetite and minor talcose slip fibre in shears.
328.0 (16)		352.0	10.0	10.0	100			
328.0 (16)		362.0	10.0	10.0	100		308.5	<u>Massive serpentinite, pale grey green</u> \bar{c} disseminated and narrow vein stockwork magnetite and minor talcose slip fibre in shears.
328.0 (16)		372.0	10.0	10.0	100			
328.0 (16)		382.0	10.0	9.3	93.0			
328.0 (16)		388.0	6.0	6.0	100	71/L1 84		
328.0 (16)		394.5	6.5	6.5	100			Very minor +ve D.M.G. finely disseminated. sulphide at 321.2,
328.0 (16)		401.5	7.0	7.0	100			
328.0 (16)		411.5	10.0	10.0	100		342.3	322, 328.0, 324.8, 341.8.
328.0 (16)		415.0	4.5	2.5	55.5		342.3	<u>Pale and dark green sheared serpentinite</u> \bar{c} magnetite in veins. Minor disseminated stichtite from 362' onwards. Fibrous talc in the more contorted portions.
328.0 (16)		420.0	5.0	1.8	36.0			
328.0 (16)		424.0	4.0	3.2	80.0			
328.0 (16)		434.0	10.0	9.6	96.0		391.0	<u>Massive and sheared pale and deep green serpentinite</u> \bar{c} disseminated stichtite blebs, with magnetite in the sheared portions and minor slip fibre (1/4). Fine veins of talc.
328.0 (16)		444.0	10.0	9.7	97.0			
328.0 (16)		454.0	10.0	9.7	97.0		391.0	<u>Massive and sheared pale and deep green serpentinite</u> \bar{c} disseminated stichtite blebs, with magnetite in the sheared portions and minor slip fibre (1/4). Fine veins of talc.
328.0 (16)		459.0	5.0	4.1	82.0			
328.0 (16)		464.5	5.5	5.5	100	71/L1 83		
328.0 (16)		471.5	7.0	7.0	100			
328.0 (16)		481.5	10.0	5.5	55.0			
328.0 (16)		483.5	2.0	2.0	100		465.0	talc.
328.0 (16)		488.5	5.0	2.3	46.0		465.0	<u>Deep green massive serpentinite, granular</u> \bar{c} minor disseminated stichtite. Pale green composite veins of light green serpentine and short cross fibre.
328.0 (16)		494.5	6.0	5.8	96.5			
328.0 (16)		504.5	10.0	10.0	100			
328.0 (16)		514.5	10.0	10.0	100			
328.0 (16)		521.5	7.0	1.5	21.4			
328.0 (16)		524.0	2.5	1.7	68.0			1/32 1/16 1/8
328.0 (16)		528.0	4.0	3.1	77.6		465.9	6 2 0
328.0 (16)							465.9	<u>Massive and sheared pale and dark green serpentinite</u> \bar{c} magnetite veins and 1% (est) slip fibre, half of which is talcose and brittle. Disseminated stichtite.
328.0 (16)							514.5	

Remarks: N.B. The "main" asbestos zone appears to be absent subsurface. The stichtite bearing serpentinite has been encountered without passing through a massive cross fibre bearing serpentinite at the expected depth.

Date 24/4/71

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DRILLING PROGRESS REPORT SORELL PENINSULA NODDY CK. Branch

Bore DHNC7

Report No. 823189

189
Box

28.0
(22)
54.0
(23)
77.0
(24)
95.0

From	To	Int.	Core Rec'd.	%	Dip In Core	Feet	Description
528.0	530.5	2.5	1.3	52.0		514.5	<u>Pale and dark sheared flakey serpentinite</u> \bar{o} magnetite.
	534.5	4.0	2.0	50.0			The stichtite is absent.
	538.5	4.0	4.0	100			
	542.5	3.5	2.8	80.0		568.5	Minor cross fibre - see log.
	544.5	2.5	1.6	64.0		568.5	Dark massive serpentinite and pyroxenite \bar{o} minor cross fibre.-
	550.5	6.0	3.4	56.6		595.0	see log.
	554.0	3.5	3.1	88.6			
	557.0	3.0	3.0	100			Depth 595'
	560.0	3.0	1.2	40.0			Core recovered 510.2
	563.0	3.5	3.5	100			% recovery 85.7%
	567.0	3.5	3.5	100			
	571.0	4.5	4.5	100			
	575.5	4.0	4.0	100			
	580.0	4.5	4.5	100			
	583.0	3.0	1.7	56.7			
	589.5	6.5	6.2	95.3			
	595.0	5.5	4.9	89.0			

DIP TESTS

0	46 $\frac{3}{4}$ ^o
200	44 $\frac{1}{2}$ ^o
400	45 $\frac{1}{2}$ ^o
590	44 $\frac{1}{2}$ ^o

Remarks: Hole stopped in dark serpentinite/pyroxenite equivalent to that penetrated by DHNC8.

Date 20/5/71

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