

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 200/32

PLANNING PROPOSER: R. E. S. Davies DEPTH:
LOCATION: P7, -170 m level Lower Pit access
PURPOSE OF HOLE: Test Southern Orebody adjacent to Swan Fault
PROPOSED CO-ORDS: 220 200 E 563 910 N
INCLINATION: -70
BEARING: 0° °GRID °MAG
TARGET: E N
DEPTH:
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: 2° 20' °GRID °MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 220 199.7 E 563 912.6 N
R.L. OF COLLAR: -209.4
INCLINATION OF HOLE: -69° 50'
PICKED UP BY: R. Howman DATE: 27/2/81

SUMMARY LOGGED BY: R. E. S. Davies
RESULTS: 30 - 43 m, 13 m @ 0.85% WO₃ Southern Orebody

DRILLING DATE COMMENCED: 12/2/81 DATE TERMINATED: 21/3/81
DRILLER/CONTRACTOR: W. Gilligan/K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE:
DEPTH: 46TT
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 52.2 m
REASON FOR TERMINATION: Below Orebody
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: S/S
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/32

Surveyed method: Single shot
 Final depth: 52.7 m
 Casing depth: Nil

Depth surveyed to: 52.7 m
 Date surveyed: 11/3/81
 Surveyed by: C. O'Brien
 Checked by:

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.		N	E
0.0	2° 20'	N7° 40'	20° 10'	-69° 50'	0.00	0.00	0.00
25.7	3° 30'	N6° 30' W	20°	-70°	24.0	8.86	0.36
52.7	2° 30'	N7° 30' W	19° 45'	-70° 15'	49.50	17.71	2.98

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 200/32

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 0.2	0.2	1.5	75
0.2 - 0.4	0.2	0.2	100
0.4 - 1.0	0.6	0.3	50
1.0 - 2.4	1.4	1.4	100
2.4 - 5.0	2.6	2.6	100
5.0 - 7.3	2.3	2.3	100
7.3 - 8.4	1.1	1.1	100
8.4 - 10.3	1.9	1.8	95
10.3 - 10.5	0.2	0.2	100
10.5 - 11.4	0.9	0.9	100
11.4 - 13.1	1.7	1.6	94
13.1 - 13.8	0.7	0.6	86
13.8 - 15.1	1.3	1.3	100
15.1 - 15.4	0.3	0.2	66
15.4 - 16.1	0.7	0.6	86
16.1 - 16.5	0.4	0.4	100
16.5 - 18.5	2.0	2.0	100
18.5 - 18.9	0.4	0.3	75
18.9 - 21.9	3.0	3.0	100
21.9 - 24.9	3.0	3.0	100
24.9 - 27.8	2.9	2.9	100
27.8 - 30.8	3.0	3.0	100
30.8 - 33.8	3.0	3.0	100
33.8 - 35.8	2.0	2.0	100
35.8 - 38.7	2.9	2.9	100
38.7 - 41.7	3.0	3.0	100
41.7 - 44.7	3.0	3.0	100
44.7 - 47.7	3.0	3.0	100
47.7 - 50.2	2.5	2.5	100
50.2 - 52.2	2.0	2.0	100

EOH 52.2 m

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 220/32

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W R T/ L A Q C)	% CORE RECO- VERY	R Q D	REMARKS (WEATHERING)
0.0 - 19.2 m	bh	3-19		chlor			46	
19.2 - 30.1	pgh	2		chlor			84	
30.1 - 40.0	gh	4		qtz			75	
40.0 - 47.7	gh (b)	4		cc/chlor			91	
47.7 - 52.2	bph	12		chlor			46	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) = $\frac{\text{Length Core } > 10 \text{ cm}}{\text{Length Drilled}}$
- Core size.

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D 200/32

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
D 13071	20	21	1.0	1.0	0.26			
72	21	22	"	"	0.16			
73	22	23	"	"	0.18			
74	23	24	"	"	0.16			
75	24	25	"	"	0.08			
76	25	26	"	"	0.08			
77	26	27	"	"	0.10			
78	27	28	"	"	0.10			
79	28	29	"	"	0.13			
80	29	30	"	"	0.25			
81	30	31	"	"	1.16			
82	31	32	"	"	1.54			
83	32	33	"	"	1.25			
84	33	34	"	"	1.17			
85	34	35	"	"	0.76			
86	35	36	"	"	0.12			
87	36	37	"	"	0.42			
88	37	38	"	"	0.12			
89	38	39	"	"	1.50			
90	39	40	"	"	0.19			
91	40	41	"	"	0.87			
92	41	42	"	"	0.72			
93	42	43	"	"	1.17			
94	43	44	"	"	0.18			
95	44	45	"	"	0.08			
96	45	46	"	"	0.70			
97	46	47	"	"	0.28			
98	47	48	"	"	0.15			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 200/32

Summary

0.0 - 19.2 m bh
19.2 - 30.1 m pgh
30.1 - 40.0 m gh
40.0 - 47.7 m Banded gh
47.7 - 52.2 m bph

0.0 - 19.2 m

BIOTITE HORNFELS

Massive fine grained biotite hornfels with little variation apart from occasional dark spotting (0.5 cm). The core is moderately broken throughout. The largest pieces recovered are about 40 cm long between 30.7 m. From about 13 to 18 m the core was recovered in pieces 2 - 10 cm long, often around 5 cm. Elsewhere the rock was recovered in pieces from 2 - 20 cm.

All the fractures are sharp and angular and have a thin coating of chlorite.

Bedding is @ 50° to LCA @ 9.5 m
" 33 " 19.0 m

Sulphides are present at joint surfaces in the first 5 m.

The last 30 cm shows some small 1 cm clasts and is gradational with the underlying pyroxene garnet hornfels.

19.2 - 30.1

PYROXENE GARNET HORNFELS

A pale khaki green, occasionally brownish coloured rock, dominated by pyroxene with subsidiary grossular, and marble clasts. The ground is good with average lengths of core about 30 - 40 cm.

Mineralisation is light and patchy, almost certainly not ore grade.

This unit passes into the underlying garnet hornfels.

30.1 - 40.0

GARNET HORNFELS

Mostly a uniform, medium grained khaki brown andradite garnet skarn. It is well mineralised throughout probably > 1.0% WO₃.

A quartz vein occurs from 35.0 to 35.8 m, but does not carry scheelite.

Immediately preceding it as a short section (15 cm) of broken core.

This unit grades into the underlying banded garnet hornfels. There does not appear to be any marble marker.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 200/32

40.0 - 47.7 m BANDED GARNET HORNFELS

A variably mineralised unit consisting of alternating well mineralised garnet hornfels and barren or poorly mineralised pyroxene hornfels/marble and biotite hornfels. Overall the unit probably has a grade of about 0.6% WO₃.

The ground is good particularly the garnet hornfels units, the biotite hornfels units tend to be more fractured.

Most of the garnet hornfels is in the first half of the unit, it and the mineralisation occur mainly above 43 m.

Bedding is @	60°	to LCA @	41 m
"	80	"	42 m
"	70	"	44.5 m

At 46.6 m one piece of core shows good cross-bedding with dips of 60° and 30° to LCA. The steeper (30) dip is cut by the shallower dip (60°).

Aplite occurs from 46.7 to 47.2 m.

47.7 - 52.2 m BIOTITE PYROXENE HORNFELS

Well bedded interlayered units of biotite hornfels and pyroxene hornfels, the ground is not much fractured apart from locally @ 50.2 m, but partings on bedding planes occur about every 5 - 15 cm.

No scheelite is present

Bedding is @	70°	to LCA @	48 m
"	65	"	49 m
"	60	"	50.5
"	50	"	51.5

EOH 52.2 m

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 200/31

PLANNING PROPOSER: R. E. Sandell Davies DEPTH: 40 m
LOCATION: Q11 Lower Pit Undercut Access
PURPOSE OF HOLE: Test Swan Fault
PROPOSED CO-ORDS: 220 200 E 563 967 N
INCLINATION: -20°
BEARING: 180° GRID MAG
TARGET: E N
DEPTH:
CHECKED BY: S. G. Brown DATE: 30/10/80

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: $177^{\circ} 47'$ GRID MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 220 202.5 E 563 967.0 N
R.L. OF COLLAR: -229.2
INCLINATION OF HOLE: $-20^{\circ} 58'$
PICKED UP BY: R. Howman DATE: 13/11/80

SUMMARY LOGGED BY: R. E. Sandell Davies
RESULTS: 40 - 46 m, 6 m @ 1.02% WO_3 Lower Pit

DRILLING DATE COMMENCED: 31/10/80 DATE TERMINATED: 11/11/80
DRILLER/CONTRACTOR: D. Rutherford/K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE: 46TT
DEPTH: 45.5
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 45.5 m
REASON FOR TERMINATION: Encountered southern orebody and passed
CONDITION OF HOLE ON COMPLETION: through Swan Fault
CASING:
CEMENTED:
BORE HOLE SURVEY: Singleshot
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 220/31

Surveyed method: Single shot
 Final depth: 45.0 m
 Casing depth: Nil

Depth surveyed to: 45.50 m
 Date surveyed: 10/11/80
 Surveyed by: R. Drake
 Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		S	E
45.50	189°	179°	68° 45'	21° 15'	16.71	42.31	0.74

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 200/31

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.6 m	2.6	0.6	23
2.6 - 4.6	2.0	2.0	100
4.6 - 7.1	2.5	2.5	100
7.1 - 8.9	1.8	1.7	94
8.9 - 11.4	2.5	2.4	96
11.4 - 12.4	1.0	0.9	90
12.4 - 12.7	0.3	0.2	66
12.7 - 13.6	0.9	0.8	89
13.6 - 14.0	0.4	0.3	75
14.0 - 16.7	2.7	2.7	100
16.7 - 19.2	2.5	2.5	100
19.2 - 21.4	2.2	2.2	100
21.4 - 22.1	0.7	0.6	86
22.1 - 23.2	1.1	1.0	91
23.2 - 26.3	3.1	3.0	97
26.3 - 29.0	2.7	2.7	100
29.0 - 30.0	1.0	0.9	90
30.0 - 33.0	3.0	3.0	100
33.0 - 34.0	1.0	1.0	100
34.0 - 35.2	1.2	1.2	100
35.2 - 37.4	2.2	2.2	100
37.4 - 40.4	3.0	3.0	100
40.4 - 43.0	2.6	2.6	100
43.0 - 45.5	2.5	.25	100
 EOH 45.5 m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/31

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W R T/ L A Q C)	% CORE RECO- VERY	R Q D	REMARKS (WEATHERING)
0,0 - 35,6 m	bph	4→20		Chlor/sulph			49	
35.6 - 37.7	LV	3		Chlor			76	
37.7 - 45.5	BFB (m)	7		cc/chlor			64	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm = \frac{\text{Length Core } > 10 \text{ cm}}{\text{Length Drilled}}$
- Core size.

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D 200/31

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
D 12923	9	10	1.0	1.0	0.06			
24	10	11	"	"	0.06			
25	38	39	"	"	0.06			
26	39	40	"	"	0.07			
27	40	41	"	"	0.70			
28	41	42	"	"	0.81			
29	42	43	"	"	1.28			
30	43	44	"	"	0.30			
31	44	45	"	"	1.22			
32	45	46	"	"	1.79			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 200/31

SUMMARY 0.0 - 35.6 m BIOTITE PYROXENE HORNFELS
 35.6 - 37.7 m LOWER VOLCANICS
 37.7 - 45.5 m MINERALISED BANDED FOOTWALL BEDS

0.0 - 35.6 m BIOTITE PYROXENE HORNFELS

Well bedded, regular unit of footwall biotite pyroxene hornfels. Individual layers are 0.5 - 5.0 m thick and consists of black fine grained biotite hornfels or green fine grained pyroxene hornfels.

The section from 9.3 - 10.0 m contains some andradite skarn and is poorly mineralised,

Sulphides are present at 14 - 15 m and 8 m as small (0.3 cm) blebs in the rock mass, especially on disturbed bedding planes.

Areas of broken ground occur at:

8.9 to 9.3 m
11.6 to 40.0 m
16.6 to 16.7 m
20.3 to 20.5 m
23.1 to 23.2 m
28.8 to 30.0 m
33.0 to 33.2 m
34.0 m
34.5 to 35.2 m

The broken ground consists of angular pieces of core from 1 - 5 cm, carrying only a moderate amount of slickensides.

Bedding is sub parallel to L.C.A. throughout but is often disturbed.

Bedding is at	0°	to	LCA	@	5.0 m
"	10°		"		8.0 m
"	25°		"		11.0 m
"	40°		"		15.5 m
"	50°		"		18.0 m
"	15°		"		21.3 m
"	0°		"		24.0 m
"	15°		"		27.0 m
"	20°		"		32.0 m
"	40°		"		34.5 m

35.6 - 37.7 LOWER VOLCANICS

A fine grained homogeneous massive, competent rock. It is micaceous and shows some brown alteration minerals. A fabric is present at about 37.3 m which runs at 40° to LCA.

Both contacts of the unit appear to be conformable.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 200/31

37.7 - 45.5 m MINERALISED BANDED FOOTWALL BEDS

Typical Banded Footwall Beds (mineralised) consisting of garnet hornfels (andradite grossular) pyroxene hornfels and biotite hornfels but no marble present. It is moderately well mineralised, grade increasing down the hole, and probably having a overall value of about 0.6%. From 44.2 m the core appears massive, and contains no bedding planes, or any rock type other than garnet hornfels.

Bedding is	@ 40°	to LCA @	38.2 m
"	35°	"	40.4 m
"	40°	"	43.0 m

EOH 45.5 m

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 200/30

PLANNING PROPOSER: R.E.S. Davies DEPTH: 90 m
LOCATION: Q11 Lower Pit Access
PURPOSE OF HOLE: Define position of Swan Fault
PROPOSED CO-ORDS: 220 200 E 563 967 N
INCLINATION: -35°
BEARING: 180° GRID MAG
TARGET: E N
DEPTH:
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: $177^{\circ} 57'$ GRID MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 220 202.3 E 563 970.8 N
R.L. OF COLLAR: 229.6
INCLINATION OF HOLE: $-34^{\circ} 21'$
PICKED UP BY: R. Howman DATE: 23/10/80

SUMMARY LOGGED BY: R.E.S. Davies
RESULTS: Not assayed for Mo due to breakdown of X.R.F. 13 m - 14 m.
1 m @ 0.31 WO_3 bph

DRILLING DATE COMMENCED: 14/10/80 DATE TERMINATED: 30/10/80
DRILLER/CONTRACTOR: D. Rutherford/K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE: 46TT
DEPTH:
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 78.6 m
REASON FOR TERMINATION: In granite
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: Multishot
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/30

Surveyed method: Multishot
 Final depth: 78.6 m
 Casing depth: 1.0 m

Depth surveyed to: 77.6 m
 Date surveyed: 29/10/80
 Surveyed by: B. Schneiders
 Checked by:

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.			
10.0 m	178°	S 12 E	56°	-34°	5.59	8.108	1.723
22.0	178°	S 12 E	55° 30'	-34° 30'	12.39	17.780	3.779
34.0	177°	S 13 E	55°	-35°	19.27	27.359	5.991
49.0	178°	S 12 E	54° 45'	-35° 15'	27.87	36.919	8.545
64.0	178°	S 12 E	54° 45'	-35° 15'	36.53	46.450	11.092
77.6	178° 15'	S 11° 45'E	54°	-36°	44.53	57.221	13.332

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 200/30

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.0 m	2.0	0.0	0
2.0 - 3.0	1.0	0.15	15
3.0 - 3.9	0.9	0.7	78
3.9 - 5.0	1.1	1.0	91
5.0 - 6.5	1.5	1.5	100
6.5 - 7.1	0.6	0.4	66
7.1 - 7.9	0.8	0.7	88
7.9 - 8.5	0.6	0.4	66
8.5 - 9.2	0.7	0.6	86
9.2 - 12.1	2.9	2.9	100
12.1 - 13.3	1.2	1.1	92
13.3 - 15.0	1.7	1.6	94
15.0 - 16.0	1.0	0.9	90
16.0 - 18.0	2.0	2.0	100
18.0 - 19.0	1.0	1.0	100
19.0 - 21.0	2.0	1.6	80
21.0 - 23.5	2.5	2.5	100
23.5 - 26.1	2.6	2.6	100
26.1 - 27.9	1.8	1.8	100
27.9 - 31.0	3.1	3.1	100
31.0 - 31.6	0.6	0.5	83
31.6 - 33.4	1.8	1.7	94
33.4 - 34.1	0.7	0.6	86
34.1 - 37.0	2.9	2.9	100
37.0 - 38.8	1.8	1.6	89
38.8 - 40.4	1.6	1.6	100
40.4 - 42.4	2.0	2.0	100
42.4 - 43.0	0.6	0.5	83
43.0 - 46.1	3.1	3.0	97
46.1 - 49.1	3.0	3.0	100
49.1 - 51.5	2.4	2.4	100
51.5 - 53.4	1.9	1.9	100
53.4 - 56.0	2.6	2.6	100
56.0 - 57.7	1.7	1.7	100
57.7 - 59.3	1.6	1.6	100
59.3 - 60.5	1.2	1.2	100
60.5 - 61.9	1.4	1.4	100
61.9 - 62.9	1.0	1.0	100
62.9 - 64.3	1.4	1.3	93
64.3 - 67.4	.31	3.1	100
67.4 - 70.0	2.6	2.6	100
70.0 - 73.0	3.0	3.0	100
73.0 - 75.4	2.4	2.4	100
75.4 - 78.0	2.6	2.4	92
78.0 - 78.6	0.6	0.6	100
EOH 78.6 m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/30

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W R T/ L A Q C)	% CORE RECO- VERY	R Q D	REMARKS (WEATHERING)
0.0 - 75.4 m	bph	2-710		Chlor			33	
75.4 - 78.6	Granite	5-8		cc			53	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm \frac{\text{Length Core} > 10 \text{ cm}}{\text{Length Drilled}}$
- Core size.

ASSAY DATA

D.D.H. No. D 200/30

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
D 12933	10	11	1.0	1.0	0.02			
34	11	12	"	"	0.04			
35	12	13	"	"	0.12			
36	13	14	"	"	0.31			
37	15	16	"	"	0.01			
38	19	20	"	"	0.01			
39	20	21	"	"	0.05			
40	24	25	"	"	0.15			
41	25	26	"	"	0.05			
42	26	27	"	"	0.14			
43	27	28	"	"	0.02			
44	32	33	"	"	0.07			
45	43	44	"	"	0.22			
46	44	45	"	"	0.02			
47	69	70	"	"	0.03			
48	70	71	"	"	0.01			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 200/30

Summary: 0.0 - 75.4 m Biotite Pyroxene Hornfels
75.4 - 78.6 m Granite

0.0 - 75.4 m BIOTITE PYROXENE HORNFELS

A monotonous unit of well bedded biotite hornfels and pyroxene hornfels with rare beds of grossular garnet. Individual beds are from 1.0 - 15.0 cm thick.

Scattered scheelite is present, associated with the grossular and as infilling in fractures.

It was detected at the following places:

10.2 - 13.8 m Scattered
15.4 - 15.7 "
19.2 - 21.7 "
24.3 - 27.7 "
32.2 in thin gross bed
43.3 - 44.2 with andradite garnet
69.9 - 70.1 with grossular in thin bed.

Generally the core is fairly broken. in particular the biotite hornfels beds are usually extensively broken, most surfaces showing poor slickensides. The first 10 m of core is badly broken and so is the area from 37.2 - 38.8 m. This region is most likely the Swan Fault as slickensides are more developed and fragments are of smaller than usual size (1 cm). Calcite veining is also present.

Most of the biotite hornfels contains crystals of pyrite and occasionally on joint surfaces,

Bedding is @	0°	to LCA @	6 m
"	40	"	12.5 m
"	50	"	20.0 m
"	25	"	28.0 m
"	40	"	35.0 m
"	40	"	41.0 m
"	0	"	50.0 m
"	20	"	55.0 m
"	25	"	62.0 m
"	30	"	67.0 m
"	10	"	73.0 m

75.4 - 78.6 GRANITE

A fine grained, pink coloured rock not typical of normal granite but common in this area.

EOH 78.6 m

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 200/28

PLANNING PROPOSER: G. J. Bujtor DEPTH:
LOCATION: -150 m RL H/W Drill Drive
PURPOSE OF HOLE: To define Southern Orebody on Section
PROPOSED CO-ORDS: 220200 E 563950 N
INCLINATION: -62°
BEARING: 180° GRID MAG
TARGET: E N
DEPTH:
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: $178^{\circ} 32'$ GRID MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 220197.9 E 56394.8.8 N
R.L. OF COLLAR: -145.3
INCLINATION OF HOLE: $-59^{\circ} 15'$
PICKED UP BY: W. Davies DATE: 4/5/79

SUMMARY LOGGED BY:
RESULTS:
39 to 40 1.0 m 0.36, 0.01
41 to 42 1.0 m 0.35 0.01

DRILLING DATE COMMENCED: 4.4.79 DATE TERMINATED: 4.5.79
DRILLER/CONTRACTOR: ADD
CASING: SIZE:
DEPTH:
CORE: SIZE: 46TT
DEPTH: 148.7
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 148.7
REASON FOR TERMINATION:
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: Multishot to 148.7 m
WATER:
COMMENTS ON DRILLING CONDITIONS: Good

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 200/28

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.25 m	3.25	3.25	100
3.25 - 5.5	2.25	2.25	100
5.5 - 7.5	2.0	2.0	100
7.5 - 9.3	1.8	1.8	100
9.3 - 11.1	1.8	1.8	100
11.1 - 13.2	2.1	2.1	100
13.2 - 15.0	1.8	1.8	100
15.0 - 15.5	0.5	0.5	100
15.5 - 17.2	1.7	1.7	100
17.2 - 19.0	1.8	1.8	100
19.0 - 20.85	1.85	1.85	100
20.85 - 23.85	3.0	3.0	100
23.85 - 26.15	2.3	2.3	100
26.15 - 28.55	2.4	2.4	100
28.55 - 31.55	3.0	3.0	100
31.55 - 34.55	3.0	3.0	100
34.55 - 37.55	3.0	3.0	100
37.55 - 40.55	3.0	3.0	100
40.55 - 43.55	3.0	3.0	100
43.55 - 46.55	3.0	3.0	100
46.55 - 49.55	3.0	3.0	100
49.55 - 52.55	3.0	3.0	100
52.55 - 55.55	3.0	3.0	100
55.55 - 58.55	3.0	3.0	100
58.55 - 60.6	2.05	2.05	100
60.6 - 62.45	1.85	1.85	100
62.45 - 64.55	2.1	2.1	100
64.55 - 67.55	3.0	3.0	100
67.55 - 70.55	3.0	3.0	100
70.55 - 73.55	3.0	3.0	100
73.55 - 76.55	3.0	3.0	100
76.55 - 79.55	3.0	3.0	100
79.55 - 80.30	0.75	0.75	100
80.3 - 81.8	1.5	1.5	100
81.8 - 84.4	2.6	2.6	100
84.4 - 85.6	1.2	1.2	100
85.6 - 85.8	6.2	6.2	100
85.8 - 87.65	2.05	2.05	100
87.65 - 89.1	1.45	1.45	100
89.1 - 90.3	1.2	1.2	100
90.3 - 91.1	0.8	0.8	100
91.1 - 92.75	1.65	1.65	100
92.75 - 95.4	2.65	2.65	100
95.4 - 97.55	2.15	2.15	100
97.55 - 99.9	2.35	2.35	100
99.9 - 102.9	3.0	3.0	100
102.9 - 105.9	3.0	3.0	100
105.9 - 108.9	3.0	3.0	100
108.9 - 111.9	3.0	3.0	100
111.9 - 114.9	3.0	3.0	100
114.9 - 117.9	3.0	3.0	100
117.9 - 120.9	3.0	3.0	100
120.9 - 123.9	3.0	3.0	100

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/28

Surveyed method: Multishot
 Final depth: 148.70 m
 Casing depth: 1 m

Depth surveyed to: 148.70 m
 Date surveyed: 4/5/79
 Surveyed by: L. Denby
 Checked by:

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.		S	E
58	183°	173°	30°	-60°	50.23	28.23	3.54
88	183°	173°	30°	-60°	76.21	43.67	5.37
118	183°	173°	30°	-60°	102.19	58.56	7.20
148.70	184°	174°	30°	-60°	128.78	73.83	8.80

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 200/28

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
123.9 - 126.9	3.0	3.0	100
126.9 - 129.9	3.0	3.0	100
129.9 - 131.9	2.0	2.0	100
131.9 - 133.9	2.0	2.0	100
133.9 - 136.9	3.0	3.0	100
136.9 - 139.9	3.0	3.0	100
139.9 - 142.9	3.0	3.0	100
142.9 - 145.7	2.8	2.8	100
145.7 - 148.7	3.0	2.3	100
EOH 148.7 m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/28

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W. R. T./ L. A. O. C.)	% CORE RECO- VERY	R. Q. D.	REMARKS (WEATHERING)
0.00 - 33.75 m	Bh	2-10		Chl/carb/sulph	50° - 5.1 m 55° - 11.1 m 55° - 19.65 36° - 22.97 38° - 32.85	100	81	
33.75 - 56.72	Pgh	1-4		Carb/chl/sulph	24° - 34.45	100	92	
56.72 - 118.3	Bh	2-15		Chl/sulph/carb		100	61	
118.3 - 140.4	Pgh	2-9		Carb/chl	37° - 129.85	100	91	
140.4 - 148.7	Granite	6-8		Carb		100	76	
148.7 m								

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) += $\frac{\text{Length Core } > 10 \text{ cm}}{\text{Length Drilled}}$
- Core size.

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D 200/28

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
D 11434	34	35	1.0	1.0	0.01	0.01		
35	35	36	"	"	<0.01	0.01		
36	36	37	"	"	0.01	0.01		
37	37	38	"	"	0.08	<0.01		
38	38	39	"	"	0.16	<0.01		
39	39	40	"	"	0.36	<0.01		
40	40	42	"	"	0.07	<0.01		
41	41	42	"	"	0.35	0.01		
42	42	43	"	"	0.03	0.01		
43	43	44	"	"	0.04	<0.01		
44	44	45	"	"	0.12	<0.01		
45	45	46	"	"	0.14	0.01		
46	46	47	"	"	0.05	<0.01		
47	47	48	"	"	0.01	0.01		
48	48	49	"	"	0.01	0.01		
49	49	50	"	"	0.01	0.01		
50	50	51	"	"	<0.01	<0.01		
51	51	52	"	"	<0.01	<0.01		
52	52	53	"	"	0.18	<0.01		
53	53	54	"	"	0.10	<0.01		
54	54	55	"	"	<0.01	<0.01		
55	55	56	"	"	0.05	<0.01		
56	56	57	"	"	<0.01	<0.01		
58	117	118	"	"	0.01	0.01		
59	118	119	"	"	<0.01	0.01		
60	119	120	"	"	0.13	0.01		
61	120	121	"	"	0.15	0.01		
62	121	122	"	"	0.05	0.01		
63	122	123	"	"	0.07	0.01		
64	123	124	"	"	0.04	<0.01		
65	124	125	"	"	0.20	0.01		
66	125	126	"	"	0.06	0.01		
67	126	127	"	"	0.06	0.01		
68	127	128	"	"	0.20	<0.01		
69	128	129	"	"	0.13	0.01		
70	129	130	"	"	0.03	0.01		
71	130	131	"	"	<0.01	<0.01		
72	131	132	"	"	0.06	0.01		
73	132	133	"	"	0.12	<0.01		
74	133	134	"	"	0.16	<0.01		
75	134	135	"	"	0.27	0.01		
76	135	136	"	"	0.1	0.01		
77	136	137	"	"	0.10	0.01		
78	137	138	"	"	0.17	0.01		
79	138	139	"	"	0.27	0.01		
80	139	140	"	"	0.21	0.01		
81	140	141	"	"	0.13	0.01		
82	141	142	"	"	0.01	0.02		
83	142	143	"	"	0.01	0.03		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 200/28

0.00 - 33.75 m BIOTITE HORNFELS

This unit is a massive dark grey fine grained biotite hornfels. Occasional thin interbeds of pyroxene hornfels give an indication of bedding.

Loose and broken core from 12.6 - 13.2 m indicates a small fault.

A coarse grained pale grey aplite occurs at the base of the unit from 33.48 - 33.75 m

Bedding is at	50°	to LCA @	5.1 m
	55°		11.1 m
	55°		19.65 m
	36°		22.97 m
	38°		32.85 m

Most partings are along bedding planes.

There is no mineralisation.

33.75 - 56.72 PYROXENE GARNET HORNFELS

This large unit is composed of good competent rock, dominantly consisting of pale brown - orange andradite and grossularite garnet in a background of green pyroxene hornfels. Biotite hornfels is also present in the first 1.5 m and from 45.5 - 50.6 m.

The latter contains rare specks of WO_3 , but the garnet hornfels is quite well mineralised, although it is rather irregular.

Mostly the unit has a podded and disturbed appearance.

Bedding 24° to LCA @ 34.45 m

56.72 - 118.3 BIOTITE HORNFELS

This rock type is a massive, dark grey unmineralised biotite hornfels.

Interbeds are rare, except for a aplite dyke at 63.89 - 64.09 m.

Bedding is not developed. The upper contact of this unit appears to be gradational with the pyroxene garnet hornfels so it would seem the drill hole penetrated a rise in the pyroxene garnet hornfels and reappeared into the biotite hornfels horizon previously logged.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 200/28

However within this unit are a number of zones indicative of faults..

57 m	Minor shearing
60.1 - 62.1 m	Many slickenslides on the numerous small sections of core, which is sometimes fractured.
79.55 - 79.7	Broken and sheared core.
80.35	Rubbly core
85.4 - 85.8	Rubbly and broken core with slickenslides
88.65 - 90.3	Rubbly core, larger fragments are sheared and fractured.
93.0 - 93.3	Broken core
98.45 - 100	Broken and rubbly core with slickenslides

The base of the unit grades into the underlying pyroxene garnet hornfels.

118.3 - 140.4

PYROXENE GARNET HORNFELS

Typical podded green/pale brown, fine/medium grained pyroxene garnet hornfels.

Mineralisation is poor at first but improves towards the base of the unit.

Bedding 37° to LCA @ 129.85 m

140.4 - 148.65

GRANITE

This rock has an overall pink colour, and has a medium to coarse grain size.

The rock is competent. A little mineralisation is present in the first 70 cm

EOH 148.65 m

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. D 200/28

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	
11438	0.16	< 0.01	12048	0.16		12049	0.18		12050	0.19		
11452	0.18	< 0.01	12051	0.17		12052	0.20		12053	0.02		
11465	0.20	0.01	12054	0.23		12055	0.25		12056	0.20		
11475	0.27	0.01	12057	0.27		12058	0.25		12059	0.24		

GEOLOGY -- KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 200/27

PLANNING

PROPOSER: G. J. Bujtor

DEPTH:

LOCATION: -150m RL H/W Drill Drive

PURPOSE OF HOLE: To define C-lens Central Area

CO-ORDS: 220200 E 563950 N

INCLINATION: -14°

BEARING: 0° °GRID °MAG

TARGET: E N

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: $357^{\circ}48'$ °GRID °MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 220197.5 E 563952.7 N

R.L. OF COLLAR: -144.7

INCLINATION OF HOLE: $-12^{\circ} 53'$

PICKED UP BY: B. Davies DATE: 4/5/79

SUMMARY

LOGGED BY: G. J. Bujtor

RESULTS: 79-94m, 15m @ 1.56% WO_3

DRILLING

DATE COMMENCED: 29/3/79 DATE TERMINATED: 6/4/79

DRILLER/CONTRACTOR: A.D.D.

CASING: SIZE: HQ
DEPTH: 1m

CORE: SIZE: 46TT
DEPTH: 118.05

WEDGE PLACED: DEPTH:

EXTENSION:

FINAL DEPTH: 118.05 m

REASON FOR TERMINATION: Entered Lower Volcanic's

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY: Surveyed at 58.0 m & 118.05 m before camera
WATER: broken down.

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 200/27

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.4	3.4	3.4	100
3.4 - 6.4	3.0	3.0	100
6.4 - 9.4	3.0	3.0	100
9.4 - 12.2	2.8	2.8	100
12.2 - 15.2	3.0	3.0	100
15.2 - 18.5	3.3	3.3	100
18.5 - 21.5	3.0	3.0	100
21.5 - 23.0	1.5	1.5	100
23.0 - 25.0	2.0	2.0	100
25.0 - 26.0	1.0	1.0	100
26.0 - 27.5	1.5	1.5	100
27.5 - 31.4	3.9	2.9	74
31.4 - 33.4(?)	2.0	2.0	100
33.4 - 40.0	6.6	7.6	115
40.0 - 43.0	3.0	3.0	100
43.0 - 46.0	3.0	3.0	100
46.0 - 49.0	3.0	3.0	100
49.0 - 52.0	3.0	3.0	100
52.0 - 55.0	3.0	3.0	100
55.0 - 58.0	3.0	3.0	100
58.0 - 61.0	3.0	3.0	100
61.0 - 64.0	3.0	3.0	100
64.0 - 67.0	3.0	3.0	100
67.0 - 68.7	1.7	1.7	100
68.7 - 70.7	2.0	2.0	100
70.7 - 72.1	1.4	1.4	100
72.1 - 75.1	3.0	3.0	100
75.1 - 76.9	1.8	1.8	100
76.9 - 79.1	2.2	2.2	100
79.1 - 82.1	3.0	3.0	100
82.1 - 85.1	3.0	3.0	100
85.1 - 88.1	3.0	3.0	100
88.1 - 91.1	3.0	3.0	100
91.1 - 93.25	2.15	2.15	100
93.25 - 96.25	3.0	3.0	100
96.25 - 99.25	3.0	3.0	100
99.25 - 102.25	3.0	3.0	100
102.25 - 105.25	3.0	3.0	100
105.25 - 108.25	3.0	3.0	100
108.25 - 110.30	2.05	2.05	100
110.30 - 112.30	2.0	2.0	100
112.30 - 114.55	2.25	2.25	100
114.55 - 116.25	1.70	1.70	100
116.25 - 118.05	1.80	1.80	100
EOH 118.05 m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

DDH No. D 200/27

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT LAOC)	JOINT FILLING	BEDDING ANGLE (W.R.T. L.A.O.C.)	% CORE RECO- VERY	R.Q.D.	REMARKS (WEATHERING)
0.0 - 6.1	B lens	4-8		Clay, chl, carb.	21°: 4.6m	100	83	
6.1 - 40.0	Bh	6-10		Chl, sulph, clay, carb.	17°: 20.7m	99	71	
40.0 - 70.7	Bh	4-6		Chl, sulph, clay carb.	31°: 42m	100	75	
70.7 - 79.4	Bh	2-4		Chl, sulph, clay carb.		100	94	
79.4 - 79.55	C E N T R A L			F A U L T				
79.55 - 91.55	Gh	9-15		Clay, aulph, carb.		100	55	
91.55 - 97.0	M/M	12		Clay, chl, carb, sulph.	53°: 94.5m 54°: 95.35m	100	37	
97.0 - 109.4	Skarn	12		Clay, chl, carb, sulph.	48°: 102.5m	100	26	
109.4 - 109.8	M A J O R			F A U L T				
109.8 - 111.55	Skarn	8-20		Clay, chl, carb, sulph.	75°: 111.45	100	26	
111.55 - 118.05	LV	2-6		Chl, carb, sulph		100	86	

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designation) += $\frac{\text{Length Core 10 cm}}{\text{Length Drilled}} \%$
3. Core size. 46TT

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D 200/27

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	TO	Length	Length Recovered	WO ₃	Mo	
D 10024	77	78	1.0	1.0	0.01	0.01	
25	78	79	"	"	<0.01	<0.01	
26	79	80	"	"	0.88	0.01	
27	80	81	"	"	4.4	0.08	
28	81	82	"	"	0.28	0.01	
29	82	83	"	"	0.46	0.01	
30	83	84	"	"	1.90	0.02	
31	84	85	"	"	8.1	0.10	
32	85	86	"	"	1.39	0.01	
33	86	87	"	"	1.50	0.02	
34	87	88	"	"	2.64	0.05	
35	88	89	"	"	1.10	0.01	
36	89	90	"	"	0.95	0.01	
37	90	91	"	"	1.51	0.03	
38	91	92	"	"	0.68	0.04	
39	92	93	"	"	1.10	0.02	
40	93	94	"	"	1.07	0.02	
41	94	95	"	"	0.10	0.01	
42	95	96	"	"	0.01	0.02	
43	96	97	"	"	<0.01	0.01	
44	97	98	"	"	<0.01	0.01	
45	98	99	"	"	0.01	0.01	
46	99	100	"	"	0.07	0.01	
47	100	101	"	"	0.13	0.01	
48	101	102	"	"	<0.01	<0.01	
49	102	103	"	"	0.01	0.01	
50	103	104	"	"	0.04	<0.01	
51	104	105	"	"	0.06	0.01	
52	105	106	"	"	0.01	0.01	
53	106	107	"	"	0.06	0.01	
54	107	108	"	"	<0.01	0.02	
55	108	109	"	"	<0.01	<0.01	
56	109	110	"	"	<0.01	<0.01	
57	110	111	"	"	0.30	0.02	
58	111	112	"	"	0.02	0.01	
59	112	113	"	"	<0.01	0.01	

SPECIFIC GRAVITY

Depth (metres):
 Rock Type :
 S.G. :

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. 200/27

0.0 - 6.1 m

B-LENS

B-lens consisting dominantly of grey coloured marbles, and minor pyroxene hornfels from 4.8 - 6.1 m.

Rare specks of scheelite are present, but definitely sub-oregrade.

?So 21° to LCA at 4.6 m

6.10 - 79.40 m

BIOTITE HORNFELS

Fine grained grey to brown coloured Biotite Hornfels. From 6.10 - 7.50 m, the Biotite Hornfels is very disturbed and schistose - like in texture. The unit is very distinctive with contrasting light grey and dark brown - black Biotite Hornfels.

Pyroxene Hornfels alteration bands are common from 6.1 - 25.0 m.

The following fault zones/broken core zones were noted - 8.0 m (carbonate breccia), 8.0 - 9.0m (fragmental textured), 14.85m (sheared, slickensides, breccia), 24.2m (broken, carbonate veins), 26.45m (carbonate, sheared), 35.4m (sheared), 39.3 (3cm fault breccia-clay pug), 49.1m (clay, slickensides), 60.2m (sheared).

There following bedding angles were noted -

So 17°	to LCA	at 20.7m
So 31°		42.0m
So 35°		68.4m

79.40 - 79.55m

MAJOR FAULT - CENTRAL FAULT

Badly broken, brecciated, clayey pug fault zone.

79.55 - 91.55 m

GARNET SKARN - UPPER C-LENS

Coarse grained andradite garnet skarn with high grade disseminated and vein scheelite present throughout. A massive scheelite vein occurs from 82.1 - 82.25 m.

Adjacent to the Central Fault, the top 3 m is very pyroxene and grossular rich, and resembles Pyroxene Garnet Hornfels.

The core is fractured and broken from 88m onwards. The presence of numerous faults cannot be excluded.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. 200/27

91.55 - 97.0 m MARBLE MARKER?

Possible Marble Marker consisting of Biotite hornfels, Pyroxene hornfels and minor grossular garnet. The core is broken and numerous breccia zone (rehealed) are present ie. ie. 95 - 96 m, 97 m.

Scheelite mineralisation is present down to 94.1m. ie. 91.55 - 94.1 m.

So 53^o to LCA at 94.5m
So 54^o 95.35m

97.0 - 109.4m SKARN

Extremely fractured and disturbed andradite/grossular skarn with abundant actinolite + quartz + carbonate, and pyroxene.

Scheelite mineralisation appears very poor throughout. Numerous faults are no doubt present throughout, judging by the very broken nature of the core. From 97-99 m, breccia is common as are slickensides.

The base of the unit may in fact be 107.7m where spotted lower volcanics occur. The volcanics appear to extend down to the major fault below.

Some semblance of banding/bedding is present and the unit may well be lower C-lens.

So (dist) 48^o to LCA at 102.5 m

109.4 - 109.8 m MAJOR FAULT

Badly broken, brecciated, clay pug fault zone with no scheelite present.

109.8 - 111.55m BANDED SKARN

Banded skarn or Banded footwall beds with grossular and andradite garnet and poor scheelite. This unit may in fact represent mineralised marbles overlying Lower Volcanics below.

The unit is broken and fractured.

So 75^o to LCA at 111.45m

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. 200/27

111.55 - 118.05m LOWER VOLCANICS

Medium grained spotted lower volcanics with no visible scheelite present. The top 30cm of the unit is very pyroxene rich and green in colour.

An aplite dyke occurs from 113.95 - 114.65m

EOH 118.05m

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/27

Survey method: Single shot
Final depth: 188.05m
Casing depth: 1m

Depth surveyed to: 118.05
Date surveyed: 6/4/79
Surveyed by: L. Denby
Checked by: G. J. Bujtor

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	W
58	355°	345°	75°	-15°	15.01	54.11	14.51
118.05	355°	345°	74°30	-15.06	31.06	110.00	29.47

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. D 200/27

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	
10028	0.28	0.01	11877	0.27	<0.01	11878	0.30		11879	0.32		
10038	0.68	0.04	11880	0.77	<0.01	11881	0.72		11882	0.60		
10057	0.30	0.02	11883	0.30	<0.01	11884	0.28		11885	0.27		

GEOPEKO - KING ISLAND

LOG OF D.D.H. No. D 200/26

PLANNING

PROPOSER: G. Bujtor
LOCATION: P13 Cuddy

DEPTH:

PURPOSE OF HOLE: To determine position of decline fault at -50m R.L.

CO-ORDS: 220200 E 564060 N

INCLINATION: +36

BEARING: 090 °GRID °MAG

TARGET: E N

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 91° 13' °GRID °MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 220202.6 E 564062.4 N

R.L. OF COLLAR: 86.4

INCLINATION OF HOLE: +34°12'

PICKED UP BY: B. Davies DATE: 21-12-1978

SUMMARY

LOGGED BY: G. Bujtor

RESULTS: Decline Fault 52.10 - (?) 54.5 m.
High Water Flow

DRILLING

DATE COMMENCED: 4-12-78 DATE TERMINATED: 8-12-78

DRILLER/CONTRACTOR: A.D.D.

CASING: SIZE: NQ
DEPTH: 2m

CORE: SIZE: 46TT
DEPTH: 55.6m

WEDGE PLACED: DEPTH:

EXTENSION:

FINAL DEPTH: (?) 55.6 m (plot says 54.0 m)

REASON FOR TERMINATION: Successfully intersected the decline fault zone.

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY: Survey to 4m (hampered by high water flow).

WATER: High water flow in Decline Fault.

COMMENTS ON DRILLING CONDITIONS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/26

Survey method: Singleshot Camera
Final depth: 56.6 m
Casing depth: 2 m

Depth surveyed to: 4.0 m
Date surveyed: 8-12-78
Surveyed by: A. Black
Checked by: A. Younger

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	E
0	91.2			34.2	0	0	0
4	97	87	56.0	34.0	2.24	0.17	3.32
56	97	87	56.0	34.0	31.32	2.43	46.36
<p><u>Note:</u> 1. Reading at 4m may well have been affected by stem pipe. 2. Reading at 56m assumed same as that at 4m.</p>							

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/26

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.05	2.05	2.05	100
2.05 - 2.90	0.85	0.65	76
2.90 - 4.0	1.10	1.10	100
4.00 - 6.2	2.2	2.2	100
6.2 - 7.7	1.5	1.5	100
7.7 - 9.6	1.9	1.9	100
9.6 - 11.1	1.5	1.5	100
11.1 - 14.0	2.9	2.9	100
14.0 - 16.7	2.7	2.7	100
16.7 - 19.5	2.8	2.8	100
19.5 - 22.5	3.0	3.0	100
22.5 - 25.4	2.9	2.9	100
25.4 - 28.35	2.95	2.95	100
28.35 - 31.35	3.0	3.0	100
31.35 - 34.1	2.75	2.75	100
34.1 - 37.1	3.0	3.0	100
37.1 - 40.0	2.9	2.9	100
40.0 - 43.0	3.0	3.0	100
43.0 - 46.0	3.0	3.0	100
46.0 - 49.0	3.0	3.0	100
49.0 - 52.0	3.0	3.0	100
52.0 - 52.15	0.15	0.15	100 broken
52.15 - 52.65	0.50	(?)0.50	100 broken
52.05 - 53.0	0.35	(?)0.2	57 broken
53.0 - 54.0	1.0	(?)0.7	70 broken
54.0 - 55.6	1.6	(?)1.2	75.0
EOH 55.60 m			

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

DDH No. 200/26

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT I.A.O.C.)	JOINT FILLING	BEDDING ANGLE (W.R.T. L.A.O.C.)	% CORE RECO- VERY	R.Q.D.	REMARKS (WEATHERING)
0.0 - 30.7	Bh	6-8		Chl, clay, carb, sul		100	80	
30.7 - 31.2	(?) <u>UNCONFORMITY</u>			Clay, carb				
31.2 - 52.1	U. Vol	4		Chl, sulph, carb		100	87	
52.1 - 54.4	<u>DECLINE FAULT</u>			Clay, chl, carb				
54.4 - 55.6	U. Vol	12		Chl, clay		70	43	
<u>EOH 55.6 m</u>								

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm \frac{\text{Length Core 10 cm}}{\text{Length Drilled}} \%$
- Core size. 46TT

GEOPEKO - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/26

0.0 - 30.70 m

BIOTITE HORNFELS

Fine grained dark brown to grey coloured biotite hornfels with minor aplite/quartz veins.

From around 25.0 - 30.7 m, the unit appears somewhat coarser grained and may in fact be upper volcanics. The core is quite competent.

From 19.5 - 25.0 m the core appears blotchy with numerous pyroxene or actinolite alteration zones or patches. No scheelite is present apart from a small vein from 9.8 - 9.85 m.

30.70 - 31.20 m

UNCONFORMITY

Badly broken clayey zone which could represent the unconformity between mine series rocks and the Upper Volcanics above.

This zone could also represent fault or shear zone.

31.20 - 52.10 m

UPPER VOLCANICS

Fine to medium grained, grey coloured, biotite flecked volcanics with some pyroxene/actinolite alteration zones and patches. No visible scheelite is present. Broken core occurs around 32.5 m, 36.75 m (carb - quartz).

52.10 - 54.40 m

DECLINE FAULT

Badly broken, brecciated fault material with no evident carbonate veining (which is often associated with this fault).

Water flow was recorded around 52.5 m and 54.0 m.

The rock type appears to be volcanics.

GEOPEKO - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. 200/26

54.40 - 55.60 m

UPPER VOLCANICS

Upper volcanics similar to that intersected
from 31.2 - 52.1 m.

EOH 55.60 m.

GEOPEKO DIVISION - King Island

LOG OF D.D.H. No. D 200/25

PLANNING Proposer: G. J. Bujtor Depth: ...75.....
Location: Southern End of Wedge Stope.
.....
Purpose of Hole: To test B lens mineralization in the Upper Central Area.
Co-ords: 220194 E 564130 N
Inclination: +19°
Bearing: 180° °Grid °Mag
Target: E N
Depth:
Approved by: Date:

SURVEY Survey Co-ords: E N
Surveyed Bearing: °Grid °Mag
Surveyed in by: Date
Actual Co-ords: 220195.9 E 564128.9 N
R.L. of Collar: B-103.3
Inclination of Hole:
Picked up By: R.J.H. Date 5-7-78

SUMMARY Logged By: G. J. Bujtor Date
Results: 6-13 m, 7 m @ 7.22% WO₃
25-27 m, 2 m @ 0.35% WO₃
46-63 m, 17 m @ 1.41% WO₃
.....
.....

DRILLING Date Commenced: 29-6-1978 Date Terminated.....
Driller/Contractor A.D.D.

Casing:	Size :	Nil		
	Depth :			
Core:	Size :	46TT		
	Depth :	72.2 m		

Wedge Runoff:
Wedge placed: Depth
Proposed by: Approved by
Reason .

Extension:
Final Depth: 72.2 m
Reason for Termination: Successfully tested B lens

Condition of hole on completion:
Casing;
Cemented:

Bore hole survey: Surveyed to 66 m
Water:

Comments on Drilling Conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No.D 200/25

Survey method: Singleshot
Final depth: 72.2 m
Casing depth: Nil

Depth surveyed to: 66m
Date surveyed: 3-7-78
Surveyed by: A. Younger
Checked by: L. Denby

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		S	E
0	182	172	70	+20.0	0	0	0
33	183	173	71.25	+18.75	+10.61	31.02	3.81
66	184	174	72.0	+18.0	+20.81	62.24	7.09
assumed 72.2	184	174	72.0	+18.0	+22.73	68.11	7.71

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/25

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	3.0	100 broken
3.0 - 4.7	1.7	1.7	100 broken
4.7 - 6.3	1.6	1.5	94 broken
6.3 - 8.2	1.9	1.9	100
8.2 - 10.5	2.3	2.4	104
10.5 - 12.0	1.5	1.4	93
12.0 - 13.5	1.5	1.5	100 broken
13.5 - 14.8	1.3	1.3	100 broken
14.8 - 17.3	2.5	2.4	96 broken
17.3 - 18.2	0.9	0.9	100
18.2 - 18.8	0.6	0.8	133
18.8 - 20.7	0.9	1.1	122
20.7 - 21.3	0.6	0.6	100
21.3 - 23.1	2.2	2.0	91
23.1 - 26.1	3.0	3.0	100
26.1 - 29.1	3.0	3.0	100
29.1 - 32.1	3.0	3.0	100
32.1 - 35.1	3.0	3.0	100
35.1 - 38.1	3.0	3.0	100
38.1 - 41.1	3.0	3.0	100
41.1 - 43.1	3.0	3.0	100
43.1 - 46.1	3.0	3.0	100
46.1 - 49.1	3.0	3.0	100
49.1 - 52.0	2.9	2.9	100
52.0 - 55.0	3.0	3.0	100
55.0 - 57.1	2.1	2.1	100
57.1 - 60.1	3.0	3.0	100
60.1 - 63.1	3.0	3.0	100
63.1 - 66.1	3.0	3.0	100
66.1 - 67.3	1.2	1.3	108
67.3 - 68.7	1.4	1.7	121
68.7 - 69.5	0.8	0.8	100
69.5 - 71.5	2.0	2.0	100
71.5 - 72.2	0.7	1.0	143

EOH 72.2 m

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 200/25

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	TO	Length	Length Recovered	WO ₃	Mo	
D 7999	5	6	1.0	1.0	<0.01	<0.01	
8000	6	7	"	"	0.68	0.01	
1	7	8	"	"	8.1	0.32	
2	8	9	"	"	1.57	0.06	
3	9	10	"	"	13.8	0.67	
4	10	11	"	"	10.2	0.4	
5	11	12	"	"	6.4	0.21	
6	12	13	"	"	9.8	0.32	
7	13	14	"	"	0.02	<0.01	
8	24	25	"	"	0.21	<0.01	
9	25	26	"	"	0.38	<0.01	
10	26	27	"	"	0.33	<0.01	
11	33	34	"	"	<0.01	<0.01	
12	34	35	"	"	0.21	<0.01	
13	35	36	"	"	0.04	<0.01	
14	36	37	"	"	0.72	0.02	
15	37	38	"	"	0.24	<0.01	
16	38	39	"	"	0.26	<0.01	
17	39	40	"	"	0.04	<0.01	
18	40	41	"	"	0.01	<0.01	
19	45	46	"	"	<0.01	<0.01	
20	46	47	"	"	5.4	0.12	
21	47	48	"	"	0.31	0.02	
22	48	49	"	"	1.86	0.06	
23	49	50	"	"	0.33	<0.01	
24	50	51	"	"	1.46	0.03	
25	51	52	"	"	1.88	0.06	
26	52	53	"	"	0.74	0.01	
27	53	54	"	"	1.4	0.06	
28	54	55	"	"	1.72	0.07	
29	55	56	"	"	0.7	0.03	
30	56	57	"	"	1.55	0.06	
31	57	58	"	"	1.51	0.05	
32	58	59	"	"	1.6	0.07	
33	59	60	"	"	0.3	0.02	
34	60	61	"	"	0.31	0.2	
35	61	62	"	"	1.87	0.08	
36	62	63	"	"	1.13	0.04	
37	63	64	"	"	0.18	0.01	
38	64	65	"	"	<0.01	0.02	
39	65	66	"	"	<0.01	<0.01	

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

DDH No. D 200/25

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT LAOC)	JOINT FILLING	BEDDING ANGLE (W.R.T. L.A.O.C.)	% CORE RECO- VERY	R.Q.D.	REMARKS (WEATHERING)
0.0 - 5.0	PGH	> 20		Chl, clay		98	14	sheared 20°:17.6 m
5.0 - 11.8	PGH	8		Chl, clay		98	77	
11.8 - 22.7	Bh	5->20		Chl, clay, Mo		99	41	
22.7 - 24.3	<u>WEDGE FAULT ZONE</u>							
24.3 - 45.0	Ch/GPH	3 - 5		Chl, clay, carb	37°:28.5 m	100	83	
45.0 - 64.0	Gph	4		Chl, clay, carb	39°:50 m	100	89	
64.0 - 72.2	Bh	5 - 6		Carb, sulp, chl	30°:70.6 m	100	63	
EOH 72.2 m								

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) = $\frac{\text{Length Core 10 cm}}{\text{Length Drilled}} \%$
- Core size. 46TT

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/25

0.0 - 11.8 m

PYROXENE GARNET HORNFELS (MINERALIZED)

Typical mineralized pyroxene garnet hornfels with remnant pods and fragments (now ?chlorite, quartz, ?actinolite). The core from 0.0 - 5.0 m is heavily fractured and broken with numerous faults (rubble) present and little mineralization.

Very coarse scheelite veins and masses are present from 6-11 m. Minor pyrite is also present.

11.8 - 22.7 m

BIOTITE HORNFELS

Highly sheared, grey coloured biotite hornfels which is spotted from 17.3 - 21.3 m. The unit is highly fractured and sheared (as evidenced by elongate and drawn out spots) with abundant chlorite and clay.

A probable fault occurs from 11.8 - 12.35 where the unit is mainly rubble. Immediately adjacent from 12.35-13.45 m, the rock appears to be a dirty pyroxene-rich skarn.

S₁ (shearing) at 17.6 m is approx 20° to LCA. Numerous fault breccia zone occur throughout the unit.

22.7 - 24.3 m

WEDGE FAULT

Wide breccia zone associated with the Wedge Fault. The core is easily broken and has been drilled well.

Immediately adjacent to the Fault, 3.5 - 4 m of skarn mineralization occurs on the hangingwall side, and possibly 0.4 m on the footwall side (pyroxene - grossular rich).

The Wedge Fault zone may extend to 24.3 m where breccia is still present.

24.3 - 64.00 m

B LENS

The following subdivisions are present:-

23.4 - 26.6 m Garnet Pyroxene Skarn green pyroxene-andradite skarn with disseminated scheelite. This skarn occurs immediately adjacent to the Wedge Fault and grades into unmineralized / unreplaced marbles below.

26.6 - 34.0 m Marble Barren grey coloured marbles with well developed bedding.

So 37° to LCA at 28.5 m
So 35° to LCA at 31.5 m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/25

34.0 - 39.0 m Garnet Pyroxene Skarn Mainly grossular garnet - pyroxene skarn with minor andradite garnet, and some scheelite mineralization. Pyrite and minor ?chalcopyrite is also present.

39.0 - 40.35 m Marble Grey marble with very minor scheelite present.

40.35 - 46.00 m ?Altered Marble / ?Tuffite Greenish coloured, ?pyroxene rich ?tuffite/?altered marble with no scheelite mineralization present. The unit is fractured with infillings of green ?pyroxene. A probable fault occurs around 45.8 m where soft clayey pug is present.

A sample of this unit has been sent away for identification and description.

46.00 - ?64.0 m Garnet - Pyroxene - Skarn (mineralized)

Garnet (grossular and andradite) - pyroxene rich skarn with good disseminated scheelite mineralization throughout. Calcite veining with minor quartz is common.

Some remnant bedding also appears to be present ie.

So/Smb? 39° to LCA at 50.0 m.

?64.0 - ?64.5

?REHEALED FAULT?

Pyroxene rich rock adjacent to a breccia (bh fragments in a carbonate matrix) at 64.12 m. Rare scheelite mineralization is present.

?64.50 - 72.20 m

BIOTITE HORNFELS

Brown coloured fine grained well cleared (?sheared) biotite hornfels. Cleavage is prominent throughout.

Badly broken core occurs from 71.0 - 71.5 m (probable fault). Pyroxene alteration zones / bands are present.

S₁ 30° to LCA at 70.6 m.

EOH 72.2 m

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. D 200/25

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	
8008	0.21	<0.01	11769	0.26		11770	0.28		11771	0.22		
8021	0.31	0.02	11772	0.44		11773	0.49		11774	0.43		
8037	0.18	0.01	11775	0.25		11776	0.22		11777	0.16		

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 200/24

PLANNING PROPOSER: G. J. Bujtor DEPTH:
LOCATION: -150m R.L. Drill Drive
PURPOSE OF HOLE: To Locate and Define Possible 'Q' Fault.
PROPOSED CO-ORDS: 220200 E 563950 N
INCLINATION: -26°
BEARING: 0° GRID MAG
TARGET: E N
DEPTH:
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: $359^{\circ} 40'$ GRID MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 220199.80 E 563952.67 N
R.L. OF COLLAR: F-144.9
INCLINATION OF HOLE: $-27^{\circ} 10'$
PICKED UP BY: R. J. Howman DATE: 15/2/78

SUMMARY LOGGED BY: G. J. Bujtor
RESULTS: No C Lens Intersection, Located Fault.

DRILLING DATE COMMENCED: 8/2/78 DATE TERMINATED: 10/2/78
DRILLER/CONTRACTOR: A.D.D.
CASING: SIZE:
DEPTH:
CORE: SIZE: 99.4m
DEPTH: 46TT
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION: Extended from 53.5m to 99.4m
FINAL DEPTH: 99.4m
REASON FOR TERMINATION: Passed Through Central Fault
CONDITION OF HOLE ON COMPLETION:
CASING: Nil
CEMENTED:
BORE HOLE SURVEY: Survey to 53.5m
WATER: Nil
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/24

Surveyed method: Eastman Singleshot
Final depth: 53.5m
Casing depth: Nil

Depth surveyed to: 53.5m
Date surveyed: 10.2.78
Surveyed by: L. Denby
Checked by: G. J. Bujtør

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		N	W
11.0	359	349	63.00	-27.0	4.99	9.62	1.87
32.0	359	349	62.25	-27.75	14.77	27.87	5.42
53.5	356	346	62.0	-28.0	24.85	46.29	10.01

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 200/24

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.6	2.6	2.6	100
2.6 - 5.5	2.9	2.9	100
5.5 - 8.5	3.0	3.0	100
8.5 - 11.5	3.0	3.0	100
11.5 - 14.5	3.0	3.0	100
14.5 - 17.5	3.0	3.0	100
17.5 - 20.5	3.0	3.0	100
20.5 - 23.0	2.5	2.5	100
23.0 - 25.0	2.0	2.1	105
25.0 - 27.5	2.5	2.5	100
27.0 - 30.5	3.0	3.0	100
30.5 - 33.5	3.0	3.0	100
33.5 - 36.5	3.0	3.0	100
36.5 - 39.5	3.0	3.0	100
39.5 - 42.5	3.0	3.0	100
42.5 - 45.1	2.6	2.6	100
45.1 - 47.5	2.4	2.4	100
47.5 - 50.5	3.0	3.0	100
50.5 - 53.5	3.0	3.0	100
53.27 - 54.7	1.43	1.43	100
54.7 - 57.6	2.9	2.9	100
57.6 - 60.6	3.0	3.0	100
60.6 - 63.6	3.0	3.0	100
63.6 - 66.6	3.0	3.0	100
66.6 - 70.8	4.2	4.2	100
70.8 - 72.35	2.55	2.55	100
72.35 - 75.35	3.0	3.0	100
75.35 - 78.35	3.0	3.0	100
78.35 - 80.65	2.3	2.3	100
80.65 - 82.2	1.55	1.55	100
82.2 - 84.75	2.55	2.55	100
84.75 - 87.75	3.0	3.0	100
87.75 - 90.4	2.65	2.65	100
90.4 - 93.4	3.0	3.0	100
93.4 - 96.4	3.0	3.0	100
96.4 - 99.4	3.0	3.0	100
EOH 99.4m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/24

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W. R. T./ L. A. Q. C.)	% CORE RECO- VERY	R. Q. D.	REMARKS (WEATHERING)
0.0 - 4.55	B-lens	7		Clay/chl/carb		WO ₃	78	
4.55 - 30.50	Bh	7-8		Chl/clay		98	66	
	<u>Major Fault</u>	24.7 - 24.8m		Chlorite pug/breccia				
		29.1 - 29.25m		Brecciated, chloritic pug.				
30.5 - 47.80	Bh	5		Chl		100	84	
47.80 - 53.50	Pgh	4-5		Chl/carb		100	82	
53.27 - 59.5	Pgh	4-6		Chl/carb		100	69	
59.5 - 70.66	L/C	8-12		Chl/carb	60° - 63.87°	100	29	
70.66 - 86.23	Bfb	12-15		Chl/carb	72° - 73.9° 67° - 76.9° 35° - 78.8°	100	20	
86.23 - 99.4	Vol	4-10		Chl/carb		100	37	
EOH 99.4m								

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm \frac{\text{Length Core} > 10 \text{ cm}}{\text{Length Drilled}}$
- Core size. 46TT

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 200/24

0.0 - 4.55m B LENS: MARBLE/PYROXENE HORNFELS

Intermixed unit of marble and pyroxene hornfels with minor orange - brown coloured grossular garnet. Scheelite mineralisation is rare.

4.55 - 47.80 BIOTITE HORNFELS

Fine grained dark brown coloured with numerous pyroxene/?actinolite hornfels alteration zones and patches especially from 4.55 - 12.5m.

Major Fault with associated breccia chlorite up pug and broken ground occurs at 24.7 - 24.8m and 29.1 - 29.25m.

Broken ground occurs from 8.0 - 10.0m, 20.5 - 25.2m (minor carbonate veining) and 29.1 - 30.0m.

Possible shears or minor faults occur around 21.2m, and around 26.35m.

A quartz - aplite vein occurs from 46.1 - 46.2m. Minor spotting occurs in the biotite hornfels from 35.5 - 38.0m (dark ?biotite rich spots) and 42.0 - 46.0m (sparse dark spots).

Possible sediment fragments within the hornfels occurs from 4.55 - 11.50m. The fragments are quite angular and randomly oriented.

47.80 - 53.50 PYROXENE GARNET HORNFELS

Typical pyroxene garnet hornfels with randomly oriented fragments of marble ranging from 1mm - 8cm in size. The fragments are rimmed by grossular garnet.

The top of the unit from 47.80 - 48.60m contains very few fragments but does appear to contain numerous ?siliceous sulphide blobs (pyrite, ?pyrrhotite).

From 52.9 - 53.5m, carbonate veined biotite hornfels is present - possible minor shear/fault.

No scheelite mineralisation is present.

53.27 - 59.5 PYROXENE GARNET HORNFELS

The typical podded appearance of this rock and its brown-green colouring identify this unit as pyroxene garnet hornfels. Grossular and carbonate are the main constituents of the pods which are generally 2 - 3cm wide.

Mineralisation is good.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 200/24

59.5 - 70.66 ?LOWER C LENS

This slightly heterogenous garnet hornfels is seperated from the preceeding unit by a 70cm wide zone of loose, broken and rubbly core, fragments of which are slickensided. This zone is interpreted as a fault.

The garnet honrfels is well mineralised and contains numerous pyroxene hornfels interbeds and is disturbed in some places.

Bedding at 60° to LCA @ 63.87m.

70.66 - 86.23 BANDED FOOTWALL BEDS

The core in this section is divided into many small pieces as a result of parting along the many bedding planes.

Well mineralised garnet hornfels is regularly interbedded with pyroxene hornfels and biotite hornfels the latter is more prevdant at the base of the unit. A number of beds rich in grossular are also present.

Bedding	72°	to LCA	at	73.9m
Bedding	67°			76.9m
Bedding	35°			78.8m

From 80.6 - 81.7m the core (garnet hornfels) is very broken and rubbly indication a small fault. Slickenslided are present.

86.23 - 99.4 VOLCANICS

This section of core has a grey green colour and a clastic texture. Its is composed of sub-angular volcanics clastic 1 - 3cm wide.

There is no mineralisation. Bedding is not development.

EOH 99.4m

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D 200/24

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
D 10962	53	54	1.0	1.0	0.13	0.02		
63	54	55	"	"	0.98	0.03		
64	55	56	"	"	0.22	0.01		
65	56	57	"	"	0.06	<0.01		
66	57	58	"	"	0.17	<0.01		
67	58	59	"	"	0.24	0.02		
68	59	60	"	"	<0.01	<0.01		
69	60	61	"	"	<0.01	0.01		
70	61	62	"	"	0.15	0.02		
71	62	63	"	"	0.02	0.01		
72	63	64	"	"	0.10	0.01		
73	64	65	"	"	0.50	0.02		
74	65	66	"	"	0.86	0.02		
75	66	67	"	"	0.47	0.01		
76	67	68	"	"	0.63	0.02		
77	68	69	"	"	0.06	0.01		
78	69	70	"	"	0.40	0.01		
79	70	71	"	"	0.33	0.01		
80	71	72	"	"	0.07	0.01		
81	72	73	"	"	0.03	0.01		
82	73	74	"	"	0.01	0.01		
83	74	75	"	"	0.03	0.02		
84	75	76	"	"	0.01	0.02		
85	76	77	"	"	0.46	0.02		
86	77	78	"	"	<0.01	0.04		
87	78	79	"	"	0.08	0.01		
88	79	80	"	"	0.45	0.01		
89	80	81	"	"	0.44	0.01		
90	81	82	"	"	0.49	0.01		
91	82	83	"	"	0.21	0.02		
92	83	84	"	"	0.36	0.01		
93	84	85	"	"	0.04	0.01		
94	85	86	"	"	0.19	0.01		
95	86	87	"	"	<0.01	<0.01		
96	87	88	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 200/23

PLANNING

Proposer: G.J. Bujtor
Depth: 90 m
Location: -150m R.L.

Purpose of hole: To determine exact position of Central Fault and
B lens mineralization.
Co-ordinates: 220200 E 564068 N

Inclination: +11°-13° Magnetic:
Bearing: 180° Grid Target depth:
Target: E N

Approved by: Date:

SURVEY

Survey Co-ords: E N

Survey bearing 183°50' Grid Magnetic:

Surveyed in by: Date:

Actual Co-ords: 220200.53E 564067.79 N

R.L. of collar: W-147.4 Inclination of hole: +14'30'

Picked up by: R.J.H. Date: 070278

SUMMARY

Logged by: A. Younger

Results: UPPER LENS 0.0-8.0 m, 8m at 1.139% W_{O_3}
B LENS 69.0-72.0 m, 3m at 1.04% W_{O_3}

DRILLING

Driller/Contractor: A.O.D

Date Commenced: 31-1-78 Date Terminated: 10-2-78

Casing: Size :	B		
Depth :	1.0		
Core: Size :	46 TT		
Depth :	91.6		

Wedge Runoff: Nil

Wedge Placed: Depth:
Proposed by: Approved by:
Reason:

Extension: Nil
Final depth: 91.6 m

Reason for termination: Successfully located Central Fault and
B lens mineralization.

Condition of hole on completion:

Casing: 1.0m
Cemented: Nil

Bore hole survey: 91.6 m
Water: Normal water return.

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/23

Survey method: Eastman Singleshot
Final depth: 91.6
Casing depth: Nil

Depth surveyed to: 91.6
Date surveyed to: 7-2-78
Surveyed by: L. Denby
Checked by: A. Younger

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid (°)	Mag. (°)	Read	Corrected		S	W
0	183.8	173.8	+14.3	+14.20	0	0	0
32	183.5	173.5	+13.25	+13.25	31.15	7.32	0.45
64	183.5	173.5	+13.0	+13.0	62.33	14.51	0.89
91.6	183.5	173.5	+15.0	+15.0	88.99	21.64	1.33

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No.

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.9	2.9	2.7	93
2.9 - 5.7	2.8	2.3	82
5.7 - 8.6	2.9	2.7	93
8.6 - 10.6	2.0	2.05	102.5
10.6 - 13.2	2.6	2.5	96
13.2 - 14.1	0.9	0.9	100
14.1 - 14.4	0.3	0.3	100
14.4 - 16.4	2.0	2.3	115
16.4 - 17.5	1.1	1.2	109
17.5 - 20.3	2.8	2.55	91
20.3 - 23.2	2.9	2.85	98
23.2 - 23.5	0.3	0.65	216
23.5 - 25.1	1.6	1.8	112.5
25.1 - 27.3	2.2	2.3	104
27.3 - 29.7	2.4	2.55	106
29.7 - 31.5	1.8	1.8	100
31.5 - 32.8	1.3	1.45	111
32.8 - 34.0	1.2	1.15	95
34 - 37	3.0	2.95	98
37 - 37.2	0.2	0.2	100
37.2 - 40.2	3.0	3.0	100
40.2 - 43.2	3.0	2.95	98
43.2 - 46.2	3.0	2.97	99
46.2 - 49.2	3.0	2.95	98
49.2 - 52.2	3.0	3.00	100
52.2 - 55.2	3.0	3.00	100
55.2 - 58.2	3.0	3.00	100
58.2 - 61.2	3.0	3.0	100
61.2 - 64.2	3.0	2.9	96
64.2 - 66.5	2.3	2.35	102
66.5 - 68.6	2.1	2.1	100
68.6 - 71.4	2.8	2.75	98
71.4 - 74.3	2.9	2.8	96
74.3 - 77.3	3.0	2.95	98
77.3 - 80.3	3.0	2.95	98
80.3 - 83.3	3.0	3.0	100
83.3 - 86.3	3.0	2.95	98
86.3 - 88.6	2.3	2.3	100
88.6 - 91.6	3.0	2.9	96
		EOH	<hr/> 102.5 <hr/>
	<i>ie 100% Core Recovery</i>		

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 200/23

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	TO	Length	Length Recovered	WO ₃	Mo	
D 7056	0.0	1.0	1.0	1.0	1.69	0.09	↓ 8m @ 1.13% WO ₃ ↑
57	1	2	"	"	0.73	0.03	
58	2	3	"	"	2.3	0.1	
59	3	4	"	"	0.65	0.01	
60	4	5	"	"	1.46	0.08	
61	5	6	"	"	1.46	0.1	
62	6	7	"	"	0.33	0.03	
63	7	8	"	"	0.44	0.13	
64	8	9	"	"	0.26	0.03	
65	9	10	"	"	0.06	<0.01	
66	10	11	"	"	<0.01	0.04	
67	11	12	"	"	0.47	0.03	
68	12	13	"	"	0.19	<0.01	
69	13	14	"	"	<0.01	<0.01	
70	19	15	"	"	0.01	<0.01	3m @ 1.04% WO ₃ ↓
71	15	16	"	"	0.11	<0.01	
72	16	17	"	"	0.04	<0.01	
73	17	18	"	"	0.02	<0.01	
74	18	19	"	"	0.36	0.01	
75	19	20	"	"	0.1	<0.01	
76	20	21	"	"	0.05	<0.01	
77	21	22	"	"	<0.01	<0.01	
78	22	23	"	"	0.1	<0.01	
79	23	24	"	"	0.11	<0.01	
80	24	25	"	"	0.07	<0.01	
81	25	26	"	"	0.14	0.02	
82	26	27	"	"	<0.01	<0.01	
83	27	28	"	"	0.25	0.06	
84	28	29	"	"	<0.01	<0.01	
85	64	65	"	"	<0.01	<0.01	
86	65	66	"	"	<0.01	<0.01	
87	66	67	"	"	<0.01	<0.01	
88	67	68	"	"	0.06	<0.01	
89	68	69	"	"	0.19	0.02	
90	69	70	"	"	1.16	0.04	
91	70	71	"	"	1.22	0.04	
92	71	72	"	"	0.75	0.04	
93	72	73	"	"	0.06	<0.01	
94	73	74	"	"	0.07	<0.01	

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 200/23

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO ₃	Mo		
D 7095	74	75	"	"	<0.01	<0.01		
96	75	76	"	"	<0.01	<0.01		
D 7097	79	80	"	"	0.25	0.01		
98	80	81	"	"	<0.01	<0.01		
99	81	82	"	"	<0.01	<0.01		
100	82	83	"	"	0.20	<0.01		
101	83	84	"	"	0.01	<0.01		
102	84	85	"	"	0.88	0.04		
103	85	86	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No.D 200/23

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0.0 - 8.76	Gh	10	80-90	clay, chl	40°-50°	90	40	4.7m - 8.5 m badly leached
8.76 - 28.17	Pgh	15	70-80	chl, clay carb.	-	100	49	
28.17 - 32.65	Bh	14	40	ch, sulp minor clay	40	100	43.5	
CENTRAL FAULT PROBABLY 32.3 metres - 32.9 metres								
32.65 - 34.25	Ph	15	25	ch, carb, minor clay	40	95	46	
34.25 - 66.9	Ch	5	70-90	chl, carb	30	100	89	
66.9 - 74.83	Pgh	10	10-40	clay, chl	40	100	48	
74.83 - 91.3	ch	8	50-90	chl, clay carb.	30	100	65	
91.3 - 91.6	Bh							
1.6 m	EOH							

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) \pm $\frac{\text{length core } > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size. **46TT**

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/23

0.0 - 8.76

Garnet Hornfels

Mineralized Upper C lens, crystalline and massive andradite garnet with calcite interstitially and as minor stringer veins.

From 4.7 m - 8.5 m the core is badly leached and weathered.

The mineralization is disseminated and it seems to be about medium grade. All primary structures have been totally destroyed except at 2.3 m and 2.75 m where some relic banding remain.

2.3 m @ 38° to LCA
2.75m @ 48° to LCA

Fractures / metre average about 10 and are mostly at 80° - 90° to LCA.

8.76 - 28.17

Pyroxene Garnet Hornfels

A podded, chloritic, calcitic unit with minor interbeds of garnet hornfels and biotite hornfels. Carbonate and chlorite intersectial and as stringer very especially calcite.

Mineralization is generally as disseminated blobs but some small minor veins occur.

Most of the core is unbanded but chloritic banding occurs at:-

14.7 m @ 20° to LCA
14.85 m @ 25° to LCA
28.17 m @ 70° to LCA

The core is quite badly broken in places and has numerous recemented fractures and breccia zones.

eg. Recemented fractures @ 10.2 m, 12.7 m, 13.3 m, 17.6 m. Breccia zones 10.4, 10.9, 14.15 and 17.6 metres. The matrix in the breccias and fractures is mainly carbonate broken and sheared zones are present at:-

10.5 - 10.6 m
14.2 - 14.5 m
17.3 - 17.35 m mylonite
25.0 - 25.25 m
26.7 - 29.9 m

The fracture / metre rate outside the shear zones is about 15 and generally are @ 70° - 80° to LCA.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/23

28.17 - 32.65

Biotite Hornfels

Fine grained grey brown banded hornfels, non mineralized minor carbonate veining with some pyrite blobs.

Banding forms an angle of 40° to the LCA and is probably bedding.

Fractures / metres average about 14 and generally follow the banding @ 40° to LCA.

A series of 5 shear zones occur from 32.3 metres - 32.9 metres and this probably represents the Central fault zone. Some minor broken zones occur at 29.7 metres, 31.2, 31.3 and 32.1 metres.

32.65 - 34.25

Pyroxene Hornfels

Grey green fine grained, banded unit has no interstitial carbonate and medium to high chlorite content. Mineralization is patchy and concentrated between 34.0 - 34.25 m. The boundary forms an angle of 40° to the LCA, but the contact with the B lens marble is at 25° to the LCA. The fracture / metre rate is about 15 and are generally parallel to the bedding.

34.25 - 66.9

B lens Marble

Fine grain grey unit, poorly bedded, slightly mineralized and altered in parts.

Alteration patches usually chloritic, some with grossular garnite (43.1 m) and very minor sulphides.

Minor interbeds of pyroxene hornfels occur eg. 61.6 - 62.5 m. Mineralization is patchy and low grade and disseminated. Fractures are mostly filled with chlorite, and carbonate broken zones are small, minor and occur at 37.1 m, 37.6 m, 40.2 m. A massive chlorite vein occurs at 54.8 m.

The unit is weakly banded at about 30° to the LCA @ 52.9 m. The fractures / metre rate averages 5 and are generally at an angle between 70° - 90° to the LCA.

There are no major shear zones or broken areas but some fractures have slicken slides indicating movement.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/23

66.9 - 74.83

B lens Mineralized Garnet pyroxene hornfels

Zone of meta somatised marble with units of , pyroxene hornfels; grossular garnet, hornfels and unaltered marble. Some mineralized banding is apparent at 66.95 m, 67.05 and 68.60 metres at angle fo 40° to LCA.

Broken zones occur at 68.5 - 68.7 m, 71.75 - 72.2 m, 74.55 - 74.6 m, and 70.85 - 70.95 m, Mylonitic shear zones occur at 69.25 m, 69.3 m, 69.4 m and 72.7 m.

The fractures / metre outside these zones is about 10, and most form angles of 10 - 40° to the LCA.

74.83 - 91.3 m

B lens Marble

Grey, poorly banded slightly mineralized unit with minor interbeds of pyroxene hornfels and biotite hornfels.

Minor zones of metasomatism to grossular garnet occur eg; 82.65 m and 85.5 m with a major zone from 80.2 m to 81.5 metres.

Banding gives following LCA angles.

40° @ 76.3 m
30° @ 82.90 m
20° @ 88.5 m

The contact with the biotite hornfels at 91.3 is 40° to the LCA. Fractures / metre over about 8 and range 50° - 90° to the LCA. A broken zone occurs 82.95 m.

Mylonitic shears occur at 76.1 m, 82.5 m, 83.4 m, 84.7 m, 87.3 m, 88.25 m, 88.6 m, 88.9 and 89.3 m.

91.3 - 91.6

Biotite Hornfels

Grey biotite hornfels as before insufficient for description.

EOH 91.6 metres.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 200/22

PLANNING

Proposer: G.J.Bujtor Depth: 50 m
Location: Wedge Stope Area - 6th

Purpose of hole: To define B lens mineralization intersected in DDH 208

Co-ordinates: 220200 ^{& DDH 198} E 564112 N

Inclination: +58° Magnetic:

Bearing: 180° Grid Target depth:

Target: E N

Approved by: Date: 13-1-78

SURVEY

Survey Co-ords: E N

Survey bearing 178°00' Grid Magnetic:

Surveyed in by: Date:

Actual Co-ords 220200.15 E 564114.87 N

R.L. of collar: B-104.9 Inclination of hole: 58°10'

Picked up by: R.J.H. Date: 230178

SUMMARY

Logged by: Allan Younger

Results:

B lens 12-20 m, 8m, at 4.33% WO₃

DRILLING

Driller/Contractor: A.D.D.

Date Commenced: 16-1-78 Date Terminated: 26-1-78

Casing:	Size :	B			
	Depth :	1.0			
Core:	Size :	46TT			
	Depth :	48.7			

Wedge Runoff: Nil

Wedge Placed: Depth:

Proposed by: Approved by:

Reason:

Extension: Nil

Final depth: 48.70 m

Reason for termination: Successfully test B lens mineralization

Condition of hole on completion:

Casing: 1.0 m

Cemented: Nil

Bore hole survey: Survey to 47.5 m

Water: Normal water return

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/22

Survey method: Acid Tube
Final depth: 48.70
Casing depth: Nil

Depth surveyed to: 48.70
Date surveyed to: 25-1-78
Surveyed by: L. Denby
Checked by: G.J.Bujtor

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		S	E
0	178	168	+58	+58	0	0	0
25	178	168	+66	+66	10.17	22.83	0.80
48.7	178	168	+62.3	+62.3	21.11	43.84	1.53

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/22

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.7	2.7	2.7	100
2.7 - 2.9	0.2	0.2	100
2.9 - 3.7	0.8	0.8	100
3.7 - 5.7	2.0	1.9	95
5.7 - 8.4	2.7	2.7	100
8.4 - 10.3	1.9	1.9	100
10.3 - 10.5	0.2	0.2	100
10.5 - 13.3	2.8	3.2	114.3
13.3 - 15.7	2.2	1.98	90
15.7 - 18.5	2.8	2.73	97.5
18.5 - 20.7	2.0	2.28	114
20.7 - 22.5	1.8	1.8	100
22.5 - 22.7	0.2	0.28	140
22.7 - 25.7	3.0	2.8	93
25.7 - 28.7	3.0	2.94	98
28.7 - 31.7	3.0	2.97	99
31.7 - 33.7	2.0	1.91	95.5
33.7 - 35.7	2.0	1.68	84.0
35.7 - 37.8	2.1	1.85	88
37.8 - 38.7	0.9	1.15	127
38.7 - 40.8	1.9	1.60	84
40.8 - 43.8	3.0	3.57	119
43.8 - 46.1	2.3	2.3	100
46.1 - 48.7	2.6	2.7	117
			Aver. $\overline{102\%}$

ie: 100% core recovery.

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 200/22

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO ₃	Mo		
D 7021	11	12	1.0	1.0	<0.01	0.01		
22	12	13	1.0	1.0	4.5	0.20		
D 7023	13	14	1.0	1.0	2.9	0.14	8m @ 4-33% WO ₃	
24	14	15	1.0	1.0	0.47	0.03		
25	15	16	1.0	1.0	7.0	0.30		
26	16	17	1.0	1.0	0.02	0.07		
27	17	18	1.0	1.0	0.79	0.03		
28	18	19	1.0	1.0	0.01	<0.01		
29	19	20	1.0	1.0	19.0	0.90		
30	20	21	1.0	1.0	0.17	0.01		
D 7031	10	11	1.0	1.0	<0.01	<0.01		
32	21	22	1.0	1.0	<0.01	<0.01		
33	22	23	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No.

Depth Interval (metres)	Rock Type	Frac- tures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Reco- very	R.Q.D.	Remarks (weathering)
0.0 - 11.5	Bh	15		clay, chl, sulph		100	57	
		<u>POSSIBLE WEDGE FAULT</u>	11.2 - 11.3 m					
11.5 - 20.75	Gph	8		clay, chl, sulph		100	72	
20.75 - 43.9	Ch	5		clay, chl, sulph	60°	100	75	
		<u>POSSIBLE FAULT</u>	<u>SHEAR ZONE</u>	23.4 - 24.4 metres				
43.9 - 48.7	BH	11		Chl, ClaySulp		100	56	
								EOH 48.7 metres.

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm \frac{\text{length core} > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size. 46 TT

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/22

0.00 - 11.5 m

Biotite Hornfels

Fine - grained, weakly banded, unmineralized and highly jointed, dark grey hornfels.

Badly broken and sheared zones occur at:-

- 1.1 - 1.4 m
- 2.1 - 2.8 m
- 3.6 - 3.7 m
- 11.2 - 11.3 m

The shear zone 11.2 - 11.3 m is probably the Wedge ~~Fault~~ Fault. Apart from these broken zones the core is highly jointed at a J/M rate of 15 and ranging from 12 - 25 m.

Most joint, bedding and shear surfaces coated in chlorite, carbonate and sulphides.

Minor breccia recementation @ 3.2 - 3.25 m, 4.7 m and 5.75 m by chlorite, silica and minor carbonate.

Joints generally form angles of 40° - 75° to the LCA. Banding or bedding of sediment is poorly developed or retained and forms an angle of 75° to the LCA around 5.45 m.

11.5 - 20.75

B lens, mineralized garnet pyroxene hornfels

Highly altered, variable unit with parts rich grossular garnet, eg. 11.75 - 12.05 m, silica pods in chloritic groundmass, 15.0 - 16.0 m, and recemented breccia zones rich in chlorite.

The unit is conformable with the underlying biotite hornfels the contact being at 20° to the LCA.

Major shear zone @ 19.85 - 20.1 m, with chlorite and clay on planes, a reconsolidated breccia zones occurs @ 20.25 - 20.35 m, with chlorite and minor carbonate as matrix.

J/M average 8 with a maximum of 15 and the range from 45° - 80° to the LCA.

Minor banding occurs which could be relic bedding and forms an angle of 30° to the LCA.

Mineralization

Disseminated scheelite mineralization occurs from 12.05 - 20.75 m, with minor associated sulphides.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/22

Massive scheelite mineralization within this zone occurs @ - 12.45 - 12.6 m;
12.9 - 13.0 m;
19.5 - 19.7 m;
With veins 14.3 m;
15.1 m,
15.25m;
15.55m;
18.00m;

20.75 - 43.9 m

B lens Marble

Grey banded unmineralized marble containing minor pyroxene hornfels, biotite hornfels units and a possible calcsilicate unit.

It is spotted in part and has carbonate ?rosettes at 26.2 - 27.8 m.

Unit 23.4 - 24.4 m is highly broken and moderately weathered and incompetent. Clay and mylonite, minor chlorite lined shears at 24.1 m:-

- Shear zones also at 40.8 m and 41.15 m which are lined with chlorite, pyrite and minor clay.
- Fracture at 43.35 m lined with molybdenumite
- Unit averages 5 J/M except for unit 23.4 m - 24.4m which has 20 J/M.
- J/M angle LCA averages 60° and is parallel to bedding or 30° - 40° LCA and normal to the bedding.
- Trace of scheelite 36.95 - 39.2 m and very small veins at 40.75 m and 41.6 m.

43.9 - 48.7 m

Biotite Hornfels

Grey to purple, fine grained, unmineralized, well bedded hornfels.

Bedding @ 45° to LCA, eg 48.0 m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/22

Sheer zones at 47.0 m and 48.6 m, highly broken with pyrite, chlorite, carbonate on fracture planes and joints. J/M average 11 with angle of 45° LCA, parallel to bedding or normal to bedding with angle of 30° to LCA.

EOH 48.7 metres.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 200/21

PLANNING

Proposer: M. J. Danielson

Depth: 135 m

Location: K.9, 150 m R.L.

Purpose of hole: C lens oreblocking

Co-ordinates: 220 200 E 563 950

N

Inclination: -54°

Magnetic:

Bearing

Grid

Target Depth:

Target:

E

N

Approved by: M.C.R.

Date: 1-7-77

SURVEY

Survey Co-ords: E

N

Survey bearing: 172° 40' Grid

Magnetic:

Surveyed in by:

Date:

Actual Co-ords: 220 199.39 E 563 948.87

N

R.L. of Collar: R-145.39

Inclination of Hole: -55° 40'

Picked up by: R. J. H.

Date: 031177

SUMMARY

Logged by: G. L. Buckland

Results: No significant mineralization.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 1-11-77

Date terminated: 17-11-77

Casing:	Size:	BX		
	Depth:	1.0		

Core:	Size:	NQ	46 TT	
	Depth:	0.4	160.0	

Wedge Runoff:

Wedge placed: Nil

Depth:

Proposed by:

Approved by:

Reason:

Extension: Nil

Reason for termination: Hole entered adamellite basement.

Condition of hole on completion:

Final depth: 160.0

Casing:

Cemented: No

Bore hole survey: Single shot to 112 metres.

Water: Normal water return throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 200/21

Survey method: Single shot camera

Final depth : 160.0 m

Casing depth : 1.0 m

Depth surveyed to: 112.0m

Date surveyed: 15-11-77

Surveyed by : L. Denby

Checked by : G. Buckland

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	E
12	174°	164°	34° 15'	-55° 45'	9.92	6.49	1.86
33	174°	164°	34° 15'	-55° 45'	27.28	17.85	5.12
51	175°	165°	34°	-56°	45.20	27.58	7.73
72	176°	166°	34° 15'	-55° 45'	59.56	39.05	10.59
93	174°	164°	34° 15'	-55° 45'	76.92	50.41	13.85
112	176°	166°	33° 45'	-56° 15'	92.72	60.66	16.40
*160	176°	166°	33° 45'	-56° 15'	132.63	86.54	22.85

REMARKS:

* Bearing and inclination at 112 metres projected to E.O.H.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/21

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 6.5	6.5	6.2	95
9.5	3.0	2.93	98
12.5	3.0	3.02	101
15.5	3.0	3.0	100
18.5	3.0	2.82	94
21.5	3.0	3.0	100
24.5	3.0	2.96	99
26.0	1.5	1.55	103
28.2	2.2	2.38	108
31.0	2.8	2.60	93
34.0	3.0	3.0	100
36.8	2.8	2.64	94
39.8	3.0	2.98	99
42.8	3.0	2.98	99
45.8	3.0	2.96	99
48.8	3.0	2.96	99
51.8	3.0	3.0	100
54.8	3.0	3.0	100
57.8	3.0	2.97	98
60.8	3.0	2.90	97
63.8	3.0	3.0	100
66.8	3.0	2.96	99
69.8	3.0	3.03	101
72.8	3.0	2.96	99
75.8	3.0	3.0	100
79.8	3.0	3.0	100
81.8	3.0	3.02	101
84.8	3.0	2.47	82
87.8	3.0	3.52	117
90.8	3.0	2.91	97
93.5	2.7	2.70	100
96.5	3.0	2.96	99
99.5	3.0	3.0	100
101.0	1.5	1.50	100
102.5	1.5	1.50	100
105.5	3.0	3.0	100
105.5	3.0	3.0	100
111.5	3.0	3.0	100
113.0	1.5	1.47	98
115.8	2.8	2.65	95
117.3	1.50	1.52	101
119.2	1.90	1.89	100
121.8	2.60	2.46	95
124.8	3.00	3.10	103
127.5	2.70	2.54	94
130.5	3.0	3.02	101

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/21

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
133.5	3.0	2.97	99
136.5	3.0	3.02	101
139.5	3.0	3.00	100
142.3	2.80	2.68	96
145.3	3.00	2.98	99
148.3	3.0	2.94	98
151.3	3.0	2.97	99
154.3	3.0	3.00	100
157.5	3.20	3.70	116
160.0	2.50	2.32	93

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/21

Depth Interval (metres)	Rock Type	Frac- tures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Reco- very	R.Q.D.	Remarks (weathering)
0 - 21.5	bh	4		Minor clay	21.4:42° LAOC.	98	65	Rubble: 12.0 - 12.5 13.2 - 13.45 15.0 - 15.5 16.5 - 16.7 Core riddled with minute carbonate veins: 13.16 ? Fault. Minor fault: 20.06. Carbonate recemented breccia
21.5 - 36.8	bh	3		Minor Clay, minor carbonate. silckensided joint @ 34.1	34.5:40° LAOC.	99	81	Faults: 28.1, a carbonated biotite hornfels recemented breccia 30.2, carbonate recemented breccia rubbly core to 30.35.
36.8 - 63.8	bh/ pgh/ bph	3		Minor, clay minor carbonate.		99	76	Rubble riddled with carbonate veinlets- 53.45 - 53.60 Core leached and fractured @ 49.55
63.8 - 78.8	gph/ ch/ tuffite	4		Minor clay, chlorite in in tuffite zone		100	71	Rubble/breccia- chlorite: 66.3 - 66.5 ? Fault.

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm = \frac{\text{length core} > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/21

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
78.8 - 115.8	tuffite/ ch/bh/ph	4		Minor pyrite	82.5m:30° LAOC 96m:35° 109.2m:50°	99	70	<p><u>Note:</u> Least competent ground in tuffite zone (short broken lengths core).</p> <p><u>Possible Faults:</u> 89.45 - 89.60; 95.60 (weakly brecciated, carbonate recemented); 100.43 - carbonate re-cemented breccia; 109.0 (carbonate, pyrite, chlorite infilling) <u>FAULT</u> breccia: 100.85. Rubble- 100.7- 101.0 incompetent ground in tuffite zone: 79.9 - 80.0</p>
115.8 - 160.0	bh/ pgh/ bph/iv /ad	4		Clay, minor carbonate chlorite in zone of lower volcs	156m:53°	100	88	<p>Minor rubble; 21.65 - 121.80 core riddled with carbonate veins @ 120.05m Lower meta volcs poor core quality.</p>

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm = \frac{\text{length core} > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size.
 - 0 - 0.4 metres NQ (47.5 mms. dia.)
 - 0.4 - 160.0 46 TT (36.5 mms. dia.)

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 200/21

Sample No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D 6554	68	69	1.0	1.0	0.04	<0.01			
5	69	70	"	"	0.79	0.04			
D 6556	70	71	"	"	0.16	<0.01			
D 6680	133	134	1.0	1.0	0.13	<0.01			
1	134	135	"	"	<0.01	<0.01			
2	135	136	"	"	0.44	0.02			
3	136	137	"	"	0.12	<0.01			
4	137	138	"	"	0.16	<0.01			
5	138	139	"	"	0.17	0.01			
6	139	140	"	"	0.03	<0.01			
7	140	141	"	"	0.07	<0.01			
8	141	142	"	"	0.16	<0.01			
9	142	143	"	"	0.11	<0.01			
90	143	144	"	"	0.16	0.01			
1	144	145	"	"	<0.01	<0.01			
2	145	146	"	"	0.01	<0.01			
3	146	147	"	"	0.17	<0.01			
4	147	148	"	"	0.12	<0.01			
5	148	149	"	"	0.08	0.02			
6	149	150	"	"	<0.01	<0.01			
7	150	151	"	"	<0.01	<0.01			
8	151	152	"	"	<0.01	<0.01			
9	152	153	"	"	<0.01	<0.01			
D 6700	153	154	"	"	<0.01	<0.01			

SPECIFIC GRAVITY

Depth (m):

Rock Type:

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No.D 200/21

0 - 37.4

Biotite Hornfels

A black barren massive biotite hornfels having some minor pyroxene and grossularite enrichment.

0.25 - 1.10

Bedding: 21.4 m : 42° LAOC

34.5 m : 40° LAOC

Faults : 28.4 m : - both carbonate / rock flow recemented breccias.

Aplite dyke : 25.17 - 25.17? Contact at 30° to LAOC.

37.4 - 50.95

Pyroxene Garnet Hornfels

White ovate carbonate ovoids up to 6 cm in length are commonly rimmed in honey coloured grossularite and surrounded by pale green pyroxene rich groundmass.

A few specks of sub grade yellow and blue fluorescing scheelite is noted throughout the interval.

42.2 - 46.40 the ground mass has a disturbed texture with abundant grossularite associated with pale green pyroxene.

AG 49.84 metres an interval of biotite rich pgh occurs to 50.95.

The uppermost contact between this biotite rich portion and the typical pgh is at 42° to LAOC.

50.95 - 54.5

Biotite Pyroxene Hornfels

Dominantly a black barren biotite hornfels containing minor sections of pale green ph.

Aplite dyke: 52.55 - 52.83, truncates core at 45° to LAOC.

from 53.20 - 54.50 the core is riddled with intricate carbonate veins and rubble.

This interval probably represents a fault zone.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/21

54.5 - 66.50

Biotite Hornfels

A barren black biotite hornfels being riddled with carbonate veinlets to 56 metres and having thin (3 cm) interbeds of pale green ph and pink grossularite from 57.0 - 59.3 metres.

Core is brecciated, rubbly and carbonate cemented from 66.3 - 66.5 and possibly represents a fault zone.

66.50 - 89.26

B lens

Consisting of:

66.50 - 70.40

Garnet Pyroxene Hornfels

A grey pale green blotchy androdite garnet pyroxene hornfels having weak subgrade scheelite mineralization in the interval: 69.2 - 70.40

70.40 - 75.65

Marble

A barren grey calcite hornfels.

75.65 - 82.0

Tuffite

A pale green / grey incompetent rock having dark flecks of ? biotite throughout and displaying a tuffaceous texture.

Abundant chlorite is present on fracture surfaces from 79.9 - 80.0.

125.3 - 154.73

Pyroxene Garnet Hornfels

Typical pgh consisting of white ovate carbonate pods, occasionally rimmed in honey coloured grossularite set in a biotite rich groundmass to 130 metres and below this point a disturbed pyroxene rich material having weak yellow and blue fluorescing sheelite / powellite mineralization is present.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/21

The lower contact does not appear to be a fault, although vaguely defined angular rock fragments are present.

154.73 - 155.77

Lower Metavolcanics

A dark grey flecked metavolcanic horizon having chlorite on fracture surfaces.

155.77 - 156.17 ?

Biotite Actinolite Hornfels

A thinly bedded black (bh) and minor pale grey a having a brecciated texture and being invaded with quartz as the adamellite contact is approached.

156.17 - 160.0

Adamellite

A pink fine grained adamellite flecked with abundant biotite to 157.5 metres.

160.0 metres E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. DDH D 200/20

PLANNING

Proposer: M. Danielson

Depth: 100m

Location: K.9 -150m RL.

Purpose of hole: C lens oreblocking

Co-ordinates: 220 200 E 563 950 N

Inclination: -66° Magnetic

Bearing: 180 Grid Target depth:

Target: E N

Approved by: M.C.R. Date: 1-7-77

SURVEY

Survey Co-ords: E N

Survey bearing: 163°30' Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 220 199.41 E 563 949.21 N

R.L. of collar: R-145.37 Inclination of hole: -65°40'

Picked up by : R.J.H. Date: 26-10-77

SUMMARY

Logged by : M.J. Danielson/G.L. Buckland

Results: Upper C lens 48 - 73 m 25 m @ 2.14% WO₃
Upper C lens 99 - 123m 24 m @ 1.22% WO₃

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 24-10-77 Date terminated: 1-11-77

Casing: Size :	Nil		
Depth :			
Core: Size :	46TT		
Depth :	135.0		

Wedge Runoff:

Wedge placed: Nil Depth:

Proposed by : Approved by:

Reason:

Extension: Nil

Reason for termination: Hole passed into Final depth: 135.0 m
footwall sequence blow ore zone.
Condition of hole on completion:

Casing : Nil

Cemented : No

Bore hole survey: Surveyed to 122 m.

Water: Normal water return throughout

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 200/20

Survey method: Multishot Camera

Final depth : 135.0 m

Casing depth : Nil

Depth surveyed to: 122 m

Date surveyed: 1-11-77

Surveyed by : G. Buckland

Checked by : G. Buckland

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	E
34	166°	156°	23°	-67°	31.20	12.31	5.59
62	167° 30'	157° 30'	22° 15'	-67° 45'	57.05	22.22	9.80
95	169°	159°	22° 15'	-67° 45'	87.57	33.90	14.36
110	168° 30'	158° 30'	22° 30'	-67° 30'	101.44	39.23	16.45
* 122	170°	160°	22° 15'	-67° 45'	112.55	43.50	18.08
135	170°	160°	22° 15'	-67° 45'	124.58	48.12	19.68

REMARKS: *

For calculation purposes to E.O.H., the inclination and bearing at at 122 metres were projected.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/20

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 5.0	5.0	4.9	98
6.5	1.5	1.5	100
9.5	3.0	3.0	100
11.3	1.8	1.7	94
14.0	2.7	2.7	100
16.6	2.6	2.6	100
18.1	1.5	1.4	93
20.7	2.6	2.55	100
23.7	3.0	3.0	100
26.7	3.0	3.0	100
29.7	3.0	3.0	100
32.7	3.0	3.0	100
35.7	3.0	3.0	100
38.7	3.0	3.0	100
41.7	3.0	3.0	100
44.7	3.0	3.0	100
47.7	3.0	3.0	100
50.7	3.0	3.0	100
53.7	3.0	3.0	100
56.7	3.0	3.0	100
59.7	3.0	3.0	100
62.7	3.0	3.0	100
65.7	3.0	3.0	100
68.5	2.8	2.6	93
71.5	3.0	3.0	100
74.5	3.0	2.8	93
77.5	3.0	2.9	97
80.5	3.0	3.0	100
83.5	3.0	3.0	100
85.5	2.0	2.1	105
87.7	2.2	2.4	109
90.7	3.0	3.0	100
93.7	3.0	3.0	100
96.7	3.0	3.0	100
99.7	3.0	3.0	100
102.7	3.0	3.0	100
105.7	3.0	3.0	100
108.7	3.0	3.0	100
111.7	3.0	2.98	99
114.7	3.0	3.05	102
117.7	3.0	2.98	99
120.7	3.0	3.02	101
123.7	3.0	3.00	100
126.7	3.0	3.04	101
129.7	3.0	2.97	99
132.8	3.10	2.95	95
135.0	2.20	1.83	83

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/20

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 29.7	bh	6		clay minor carbonate	27 m: 30°	99	81	Broken ground 24.4 - 24.6
<u>Possible Faults</u>		(1) 12.0	12.05	Intricate carbonate veining No significant brecciation Carbonate recemented breccia				
		(2) 21.7	21.75					
29.7 - 47.7	pgh	4		Clay		100	94	
47.7 - 71.5	gh	4		Clay		99	91	
71.5 - 77.5	gh, bh	Variable		Clay		95	70	<u>Fault</u> 75.0 - 75.6 Carbonate and clay recemented breccia
77.5 - 90.7	bh	8		Clay		100	70	
90.7 - 105.7	pgh, gh	5		Clay		100	78	Broken ground 96.0 - 96.2 98.3 - 98.6
105.7 - 135.0	gh/ch/ bph	2		Minor Carbonate	132m : 45° 134m : 50° LAOC.	98	86	Minor breaks parallel to bedding from 132 - 133 m.

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) = $\frac{\text{length core } > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size. 46 TT = 36 mms dia.

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 200/20

Sample No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D 6499	44	45	1.0	1.0	0.30	<0.01			
6500	45	46	"	"	0.08	<0.01			
1	46	47	"	"	<0.01	<0.01			
2	47	48	"	"	0.12	<0.01			
3	48	49	"	"	0.42	0.02			
4	49	50	"	"	1.34	0.03			
5	50	51	"	"	1.76	0.06			
6	51	52	"	"	1.51	0.07			
7	52	53	"	"	1.20	0.06			
8	53	54	"	"	1.37	0.06			
9	54	55	"	"	1.24	0.06			
10	55	56	"	"	1.30	0.05			
1	56	57	"	"	1.10	0.04			
2	57	58	"	"	1.37	0.07			
3	58	59	"	"	1.54	0.06			
4	59	60	"	"	3.23	0.14			
5	60	61	"	"	1.67	0.08			
6	61	62	"	"	1.80	0.07			
7	62	63	"	"	0.89	0.03			
8	63	64	"	"	1.83	0.09			
9	64	65	"	"	4.10	0.15			
20	65	66	"	"	2.13	0.06			
1	66	67	"	"	10.9	0.40			
2	67	68	1.0	0.9	14.0	0.55			
3	68	69	1.0	0.9	8.1	0.30			
4	69	70	1.0	1.0	11.8	0.45			
5	70	71	"	"	29.7	>1.0			
6	71	72	"	"	3.13	0.10			
7	72	73	"	"	0.66	0.02			
D 6528	73	74	"	"	0.08	0.01			
D 6529	99	100	1.0	1.0	1.93	0.07			
0	100	101	"	"	0.37	0.02			
1	101	102	"	"	<0.01	<0.01			
2	102	103	"	"	0.72	0.03			
3	103	104	"	"	0.32	0.02			
4	104	105	"	"	1.49	0.05			

25 m @ 2.14%
WO₃

SPECIFIC GRAVITY

Depth (m):
Rock Type:
S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 200/20

Sample No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
5	105	106	1.0	1.0	1.28	0.06			↓ 24 m @ 1.22% WO ₃ ↑
6	106	107	"	"	1.47	0.07			
7	107	108	"	"	1.76	0.08			
8	108	109	"	"	1.22	0.06			
9	109	110	"	"	1.66	0.08			
40	110	111	"	"	1.64	0.08			
1	111	112	"	"	1.71	0.08			
2	112	113	"	"	1.35	0.06			
3	113	114	"	"	1.74	0.08			
4	114	115	"	"	1.58	0.07			
5	115	116	"	"	1.89	0.08			
6	116	117	"	"	0.89	0.04			
7	117	118	"	"	1.25	0.06			
8	118	119	"	"	0.93	0.05			
9	119	120	"	"	0.81	0.04			
50	120	121	"	"	1.99	0.08			
1	121	122	"	"	0.82	0.04			
2	122	123	"	"	0.43	0.02			
D 6553	123	124	1.0	1.0	<0.01	<0.01			

SPECIFIC GRAVITY

Depth (m):
 Rock Type:
 S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No.D 200/20

- 0 - 1.0 B lens
Barren pyroxene, grossular and biotite hornfels.
- 1.0 - 29.7 Biotite Hornfels
Barren grey brown fine grained biotite hornfels.
Possible Faults
12.0 - 12.05
21.7 - 21.75
aplite
27.8 - 28.1 metres.
- 29.7 - 48.8 Pyroxene Garnet Hornfels
Uppermost 5 metres of this unit strongly podded and very biotite rich and barren of mineralization. This unit grade into typical strongly pyroxene grossular matrix with white carbonate pods.
Occasional speck of scheelite below 35 metres but unit is mostly suboregrade.
- 48.8 - 72.4 Garnet Hornfels
Medium to fine grained andradite garnet hornfel becoming more pyroxene rich below 67 metres but grade is higher in this section. Unit contains medium grade disseminated scheelite throughout.
- 72.4 - 75.0 Biotite Hornfels
Barren grey bh.
- 75.0 - 75.6 Fault
Carbonate recemented biotite hornfels breccia.
- 75.6 - 91.0 Biotite Hornfels
Barren grey bh
- 91.0 - 104.0 Pyroxene Garnet Hornfels
Typical pgh. Green ph groundmass with grossular garnet rimmed ovoids. Minor mineralization.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/20

104.0 - 122.1

Garnet Hornfels

A massive andradite garnet skarn containing medium to high grade scheelite mineralization throughout.

122.1 - 125.97

Marble

A barren grey marble

125.97 - 135.0

Biotite Pyroxene Hornfels

A grey (biotite), pale grey (actinolite) hornfels displaying a disturbed texture to approximately 132 metres, but being thinly bedded to 135 metres.

Bedding: 132 m, 45° L.A.O.C.
134 m, 50° L.A.O.C.

135.0 m. E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 200/19

PLANNING

Proposer: M. Danielson

Depth: 95

Location: Q9 / K9 - 150 m RL.

Purpose of hole: C lens ore blocking

Co-ordinates: 220 200 E 563 950

Inclination: -81

Bearing 180° Grid

Target: E

Approved by: M.C.R.

N

Magnetic:

Target Depth:

N

Date: 1-7-77

SURVEY

Survey Co-ords: E

Survey bearing: 163° 30' Grid

Surveyed in by:

Actual Co-ords: 220 199.31 E 563 949.55

R.L. of Collar: R-145.47

Picked up by: R.J.H.

N

Magnetic:

Date:

N

Inclination of Hole: Use design

Date: 26-10-77

SUMMARY

Logged by: M. Danielson

Results: Upper C lens: 41 - 60 m, 19 m @ 1.10% WO₃

Lower C lens: 61 - 79 m, 18 m @ 0.58% WO₃

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 18-10-77

Date terminated: 24-10-77

Casing: Size: Nil
Depth:

Core: Size: 46TT
Depth: 95.5

Wedge Runoff:

Wedge placed: Nil

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Hole in unmineralized footwall hornfels.

Condition of hole on completion: Nil

Final depth: 95.5 m

Casing: Nil

Cemented: Yes

Bore hole survey: Multishot to 83 m

Water: Nil

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 200/19

Survey method: Multishot Camera

Final depth : 95.5 m

Casing depth : 1 m

Depth surveyed to: 83.5 m

Date surveyed: 21-10-77

Surveyed by : L. Denby

Checked by : M. Danielson

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
30	197	187	-8.5	-81.5	29.69	4.29	.34
60	201	191	-9	-81	59.34	8.87	1.03
83.5	204	194	-9	-81	82.56	12.47	1.80
95.5	204	194	-9	-81	94.41	14.29	2.25

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/19

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.1	3.1	3.0	97
5.0	1.9	1.9	100
6.5	1.5	1.6	107
9.5	3.0	3.0	100
12.1	2.6	2.5	96
14.7	2.6	2.6	100
17.5	2.8	2.75	98
20.5	3.0	3.0	100
23.5	3.0	3.0	100
26.5	3.0	3.0	100
29.5	3.0	3.0	100
31.2	1.7	1.7	100
34.2	3.0	3.0	100
37.2	3.0	3.0	100
40.2	3.0	3.0	100
43.2	3.0	3.0	100
45.7	2.5	2.3	92
51.7	3.0	3.0	100
54.7	3.0	3.0	100
57.7	3.0	2.95	98
60.7	3.0	3.0	100
63.7	3.0	3.0	100
66.7	3.0	3.0	100
69.7	3.0	3.0	100
72.5	2.8	2.75	98
75.5	3.0	2.9	97
78.5	3.0	2.9	97
80.5	2.0	2.2	110
83.5	3.0	3.0	100
86.5	3.0	3.0	100
89.5	3.0	3.0	100
92.5	3.0	3.0	100
95.5	3.0	3.0	100
EOH			

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. D 200/19

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
D 6454	35	36	1.0	1.0	<0.01	<0.01	
5	36	37	"	"	0.02	<0.01	
6	37	38	"	"	<0.01	<0.01	
7	38	39	"	"	<0.01	<0.01	
8	39	40	"	"	0.02	<0.01	
9	40	41	"	"	0.07	<0.01	
60	41	42	"	"	1.34	0.06	Upper C lens 41 - 60 m, 19 m @ 1.10% WO ₃ 0.05% Mo
1	42	43	"	"	1.62	0.07	
2	43	44	"	"	1.52	0.08	
3	44	45	"	"	1.18	0.06	
4	45	46	"	"	1.60	0.08	
5	46	47	"	"	1.12	0.06	
6	47	48	"	"	1.40	0.07	
7	48	49	"	"	0.90	0.05	
8	49	50	"	"	0.89	0.05	
9	50	51	"	"	1.05	0.06	
70	51	52	"	"	0.83	0.04	
1	52	53	"	"	0.83	0.05	
2	53	54	"	"	0.71	0.04	
3	54	55	"	"	0.83	0.05	
4	55	56	"	"	0.40	0.03	
6475	56	57	1.0	1.0	1.27	0.06	
6	57	58	"	"	1.12	0.03	
7	58	59	"	"	1.45	0.05	
8	59	60	"	"	0.91	0.03	
9	60	61	"	"	<0.01	<0.01	
80	61	62	"	"	0.57	0.02	Lower C lens 61 - 79 m, 18 m @ 0.58% WO ₃ 0.02% Mo
1	62	63	"	"	1.10	0.04	
2	63	64	"	"	0.75	0.04	
3	64	65	"	"	0.66	0.03	
4	65	66	"	"	0.25	<0.01	
5	66	67	"	"	0.21	<0.01	
6	67	68	"	"	0.54	0.02	
7	68	69	"	"	0.19	0.01	
8	69	70	"	"	0.42	0.02	
9	70	71	"	"	2.13	0.09	
90	71	72	"	"	0.67	0.03	
1	72	73	"	"	0.65	0.02	
2	73	74	"	"	0.57	0.02	
3	74	75	"	"	0.41	0.01	
4	75	76	"	"	0.34	0.01	
5	76	77	"	"	0.33	<0.01	

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - King Island

ASSAY DATA

D.D.N. No. D 200/19

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
96	77	78	1.0	1.0	0.40	0.01	↑
7	78	79	"	"	0.25	0.01	
6498	79	80	"	"	<0.01	<0.01	

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/19

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 20.5	bh	5		Clay	9 m: 60°	99	86	
20.5 - 40.2	pgh	6		Clay minor Carbonate	32 m: 45°	100	83	<u>Poss. Fault</u> 34.0 - 34.5
40.2 - 60.7	gh	3		Clay		99	91	
60.7 - 78.5	banded gh	6		Clay	70 m: 45° 78 m: 55°	99	74	78.3 - 78.5 core is rubble Mod. broken core 78.5 - 81.5
78.5 - 95.5	bah	8		Clay	81 m: 35° 92 m: 45°	101	66	<u>Poss. Fault</u> 94.4 - 94.6

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm \frac{\text{length core} > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size. 46 TT = 36 mm dia.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/19

- 0 - 1.0 m B lens
Pyroxene grossular garnet and biotite hornfels rock. Base of B lens sequence.
- 1.0 - 19.3 Biotite Hornfels
Barren grey brown fine grained biotite hornfels.
- 19.3 - 41.1 Pyroxene Garnet Hornfels
Green pyroxene and pale pink grossular garnet matrix containing white carbonate pods usually 1 - 2 cm dia. Occasional speck of scheelite below 27 m but definitely sub ore grades.
Possible fault 34.0 - 34.5 where core is leached and brecciated, recemented in a carbonate matrix with moderate pyrite.
- 41.1 - 60.0 Garnet Hornfels
Medium grained andradite garnet hornfels. Massive and typical of Upper C lens. Finely disseminated scheelite throughout and is medium grade mineralization.
- 60.0 - 78.3 Banded Garnet Hornfels
Strongly bedded fine grained andradite garnet containing finely disseminated scheelite. Also interbedded barren green pyroxene and black biotite.
Grades of mineralization is low to medium.
There does not appear to be any significant marble marker separating massive gh and barren gh.
- 78.3 - 95.5 Biotite Actinolite Hornfels
Barren interbedded grey black hornfels.
95.5 m E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO.D 200/18

PLANNING

Proposer: M. Danielson

Depth: 90 m

Location: K.9/Q.9 -150mRL

Purpose of hole: C lens oreblocking

Co-ordinates: 220 200 E 563 950

Inclination: -80

Bearing 360 Grid

Target: E

Approved by: M.C.R.

N

Magnetic:

Target Depth:

N

Date: 1-7-77

SURVEY

Survey Co-ords: E

Survey bearing: 70 30' Grid

Surveyed in by:

Actual Co-ords: 220 198.97 E 563 949.69

R.L. of Collar: R - 145.47

Picked up by: R.J.H.

N

Magnetic:

Date:

N

Inclination of Hole: -81° 00'

Date: 14-10-1977

SUMMARY

Logged by: M. Danielson

Results: Upper C lens: 33 - 45 m, 12 m @ 0.95% WO₃
Lower C lens: 57 - 74 m, 17 m @ 0.41% WO₃

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 11-10-77

Date terminated: 18-10-77

Casing: Size: Nil

Depth:

Core: Size: 46 TT

Depth: 93.0

Wedge Runoff:

Wedge placed: Nil

Depth:

Proposed by:

Approved by:

Reason:

Extension: Nil

Reason for termination: Hole below mineral horizon

Condition of hole on completion:

Final depth: 93.0

Casing: No

Cemented: No

Bore hole survey: Multishot to 87 m

Water: Nil

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 200/18

Survey method: Multishot Camera

Final depth : 93.0

Casing depth : Nil

Depth surveyed to: 87.0

Date surveyed: 18-10-77

Surveyed by : L. Denby

Checked by : M. Danielson

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
30	346	336	-8.75	-81.25	29.65	4.30	1.69
60	340	330	-9.0	-81	59.30	8.40	3.85
93	337	327	-9.0	-81	91.90	12.76	6.63

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. **D 200/18**

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 21.8	bh	5		clay minor carbonate		98	82	Fault? 19.6 - 19.7 clay + rubble.
21.8 34.1	pgh	<29 m = 4 >29 m = 8		Clay		99	68	
<u>Fault</u> 32.3 - 34.1	Leached and clay recemented breccia							
34.1 60.2	gh marker	3		clay	50m : 65° 55m : 60°	99	88	
60.2 78.5	banded gh	+10		clay	64m : 80° 71m : 75° 75m : 75° 81m : 60° 93m : 70°	98	38	60.0 - 62.0 core is 50% rubble. Possible fault 76.4 - 77.0
78.5 - 93.0	bah	6	minor	clay montmorillonite		100	76	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm = \frac{\text{length core } >10 \text{ cms}}{\text{length drilled}} \%$
- Core size. 46 TT = 36.5 mm dia.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/18

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 4.9	4.9	4.85	99
6.5	1.6	1.5	94
9.5	3.0	3.0	100
12.5	3.0	3.0	100
14.7	2.2	2.2	100
17.5	2.8	2.8	100
21.8	4.3	4.1	95
24.8	3.0	3.0	100
26.3	1.5	1.5	100
29.3	3.0	3.0	100
32.3	3.0	3.0	100
34.1	1.8	1.7	94
37.1	3.0	3.0	100
40.1	3.0	3.0	100
43.1	3.0	3.0	100
46.1	3.0	3.0	100
49.1	3.0	3.0	100
52.1	3.0	3.0	100
55.1	3.0	3.0	100
58.1	3.0	3.0	100
60.2	2.1	1.9	90
61.3	1.1	1.1	100
65.7	4.4	4.3	98
67.0	1.3	1.3	100
68.5	1.5	1.5	100
70.0	1.5	1.5	100
73.6	3.6	3.4	94
76.5	2.9	2.9	100
77.9	1.4	1.4	100
78.5	0.6	0.6	100
80.0	1.5	1.5	100
81.7	1.7	1.7	100
84.0	2.3	2.3	100
87.0	3.0	3.0	100
90.0	3.0	3.0	100
93.0	3.0	3.0	100
EOH			

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. D 200/18

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
D 6407	25	26	1.0	1.0	0.82	0.04	
8	26	27	"	"	0.43	0.02	
9	27	28	"	"	0.20	0.01	
10	28	29	"	"	<0.01	<0.01	
1	29	30	"	"	<0.01	<0.01	
2	30	31	"	"	<0.01	<0.01	
3	31	32	"	"	0.01	0.02	
4	32	33	"	"	0.17	<0.01	
5	33	34	"	"	1.85	0.06	Upper C lens 33 - 45 m 12 m @ 0.95% WO ₃ 0.05% Mo
6	34	35	"	"	0.79	0.04	
7	35	36	"	"	0.93	0.04	
8	36	37	"	"	0.57	0.08	
9	37	38	"	"	2.31	0.09	
20	38	39	"	"	1.45	0.07	
1	39	40	"	"	0.88	0.06	
2	40	41	"	"	0.67	0.04	
3	41	42	"	"	0.36	0.03	
4	42	43	"	"	0.65	0.04	
5	43	44	"	"	0.46	0.03	
6	44	45	"	"	0.51	0.04	
7	45	46	"	"	0.22	0.01	
8	46	47	"	"	0.28	0.02	
9	47	48	"	"	0.24	0.01	
30	48	49	"	"	0.22	0.01	
D 6431	49	50	"	"	<0.01	<0.01	
D 6432	54	55	"	"	<0.01	<0.01	
3	55	56	"	"	0.15	<0.01	
4	56	57	"	"	0.22	<0.01	
5	57	58	"	"	0.43	0.02	Lower C lens 57 - 74 m, 17 m @ 0.41% WO ₃ 0.02% Mo
6	58	59	"	0.9	0.41	0.02	
7	59	60	"	1.0	<0.01	<0.01	
8	60	61	"	"	0.43	0.02	
9	61	62	"	"	0.31	0.01	
40	62	63	"	"	0.36	0.01	
1	63	64	"	"	0.43	0.02	
2	64	65	"	"	0.41	0.01	
3	65	66	"	"	0.57	0.02	
4	66	67	"	"	0.46	0.01	
5	67	68	"	"	0.77	0.03	

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. D 200/18

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
6	68	69	"	"	0.26	0.01	↑	
7	69	70	"	"	0.23	0.01		
8	70	71	"	"	0.40	0.01		
9	71	72	"	"	0.43	0.02		
50	72	73	"	0.9	0.74	0.03		
1	73	74	"	0.85	0.37	<0.01		
2	74	75	"	1.0	<0.01	<0.01		
D 6453	75	76	"	"	0.23	<0.01		

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/18

- 0 - 0.8 m B lens
Minor pyroxene garnet hornfels, barren and indicates base of B lens.
- 0.8 - 20.1 Biotite Hornfels
Barren grey biotite hornfels.
Possible minor fault at 19.6 - 19.7 metres.
General quality of core for hangingwall bh is good.
RQD 0 - 21.8 = 82%
- 20.1 - 33.0 Pyroxene Garnet Hornfels
Typical green pyroxene groundmass with white carbonate ovoids and grossular garnet to 29 metres but below 29 metre 'pods' are less well developed.
Core is more broken below 29 metres
Fault 32.3 - 34.1 leached and clay recemented.
Pgh unit is weakly mineralised below 25.5 metres.
- 33.0 - 48.6 Garnet Hornfels
Medium to coarse grained massive andradite garnet skarn but unit has a green colour type and is evidently more ph rich than usual in Upper C lens.
Quality of core is excellent. Medium to high grade finely disseminated scheelite throughout.
- 48.6 - 55.7 Marker
A barren unit of marble 48.6 - 51.0 biotite hornfels 51.0 - 53.1 marble 53.1 - 55.7.
- 55.7 - 75.0 Banded garnet hornfels
Typical interbedded andradite garnet hornfels and green ph and black bh. Low to medium grade finely disseminated scheelite throughout.
Possible Faults:
60.0 - 62.0 core is approx.
50% rubble.
76.5 - 77.0 clay recemented breccia.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/18

75.0 - 93.0

Banded Biotite Actinolite

Barren interbedded grey black thinly bedded hornfels.

Aplite 85.1 - 85.4. Quality of core in this unit below 80 metres is good.

93.0 m EOH.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 200/17

PLANNING

Proposer: M. Danielson

Depth: 90 m

Location: -150 m RL. HW drill drive

Purpose of hole: C lens oreblocking

Co-ordinates: 220 200 E 653 950

Inclination: -62°

Bearing 360 $^{\circ}$ Grid

Target: E

Approved by: M.C.R.

N

Magnetic:

Target Depth:

N

Date: 1-7-77

SURVEY

Survey Co-ords: E

Survey bearing: 358 $^{\circ}$ 10' Grid

Surveyed in by:

Actual Co-ords: 220 198.96 E 563 950.13

R.L. of Collar: R-145.50

Picked up by: R.J.H.

N

Magnetic:

Date:

N

Inclination of Hole: -63° 20'

Date: 14-10-77

SUMMARY

Logged by: M. Danielson

Results: D. Cowan (geology)

Upper C lens: 34 - 47 m, 13 m @ 0.86% W_{O_3}

Lower C lens: 52 - 70 m, 18 m @ 0.59% W_{O_3}

DRILLING

Driller/Contractor:

A.D.D.

Date commenced: 4-20-77

Date terminated: 11-10-77

Casing: Size: Nil

Depth:

Core: Size: 46TT

Depth: 82.8

Wedge Runoff:

Wedge placed: Nil

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Hole in unmineralized bfb

Condition of hole on completion:

Final depth: 82.8 m

Casing: No

Cemented: No

Bore hole survey: Multishot to 82.8 m

Water: Nil

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 200/17

Survey method: Multishot Camera

Final depth : 82.8

Casing depth : Nil

Depth surveyed to: 82.8

Date surveyed: 11.10.77

Surveyed by : L. Denby

Checked by : M. Danielson

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
30	356	346	-26	-64	26.93	12.80	3.25
60	355.5	345.5	-26	-64	53.89	25.55	6.49
82.8	356	346	-26	-64	74.38	35.25	8.91

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/17

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	2.96	99
3.0 - 6.3	3.3	3.34	101
6.3 - 9.0	2.7	2.64	98
9.0 - 12.5	3.5	3.52	101
12.5 - 15.5	3.0	3.00	100
15.5 - 17.6	2.1	2.18	104
17.6 - 19.7	2.1	2.22	106
19.7 - 21.6	1.9	1.84	97
21.6 - 24.6	3.0	2.88	96
24.6 - 27.6	3.0	3.01	100
27.6 - 30.6	3.0	3.08	103
30.6 - 33.6	3.0	3.08	103
33.6 - 35.7	2.1	1.90	90
35.7 - 38.7	3.0	3.04	101
38.7 - 41.7	3.0	3.08	103
41.7 - 44.7	3.0	3.00	100
44.7 - 47.7	3.0	3.15	105
47.7 - 50.7	3.0	2.97	99
50.7 - 53.7	3.0	2.99	99
53.7 - 56.7	3.0	2.86	95
56.7 - 59.7	3.0	3.08	103
59.7 - 63.5	3.8	3.41	90
63.5 - 66.5	3.0	2.74	91
66.5 - 69.5	3.0	3.24	108
69.5 - 72.5	3.0	2.99	100
72.5 - 75.5	3.0	3.06	102
75.5 - 77.0	1.5	2.04	136
77.0 - 79.8	2.8	2.40	86
79.8 - 82.8	3.0	3.06	102

EOH

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. 200/17

Depth Interval (metres)	Rock Type	Frac- tures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Reco- very	R.Q.D.	Remarks (weathering)
0 - 27.6	gh, bph	6	-	Little fill- ing present but calcite & Fe-sulphides do occur as joint - filling	58° : 6.68 54° : 7.67 59° : 9.44 48° : 12.65 51° : 14.98 55° : 15.44 50° : 16.04 54° : 16.86	100	73	A Fault breccia occurs between 17.90 - 18.26 A lesser fault breccia occurs between 22.41 - 22.60
27.6 - 33.6	pgh	7	-	Minor Fe- sulphides on joint planes	43° : 33.43	103	66	The ground is severely sheared & broken between 31.24 - 31.60
33.6 - 53.7	gh, ch, bph	7	-	Calcite, Fe- sulphides & clay	63° : 47.43 71° : 49.01 78° : 49.98 80° : 51.30 62° : 53.68	100	71	The most severely broken ground occur between: 35.41- 35.80 & 46.72 - 46.98
53.7 - 72.5	Banded gh, bfb	13	-	Clay, Fe- Sulphides (although many joints contain neither)	64° : 55.26 65° : 55.58 77° : 58.40 78° : 59.51 74° : 60.10 70° : 62.61 75° : 63.10 68° : 64.71 75° : 65.75 73° : 67.72 70° : 69.87 67° : 70.06 57° : 72.35	97	54	The most severely sheared & broken ground occurs between: 58.80 - 59.52 & 68.18 - 69.00 Neither is associa ed with much core- loss. There seem to be no major fault zone to account for an 0.85 m core loss between 59.7 - 66.5 m.

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) \pm $\frac{\text{length core } > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. 200/17

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
72.5 - 77.0	Alternating bh/ph	26	-	minor Fe- sulphides	57°:73.08 79°:74.16 70°:75.11 70°:76.22 78°:76.70	113	44	There are no major fault zones, most of the joints being parting along bedding planes
77.0 - 82.8	Alternating bh/ph	9	-	generally absent	65°:78.34 72°:78.96 65°:81.44 65°:81.80 56°:82.72	94	68	There are no major fault zones, most of the joints being parting along bedding planes.
E.O.H.								

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) $\pm = \frac{\text{length core} > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size.

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. D 200/17

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
D 6365	29	30	1.0	1.0	0.93	<0.01	
6	30	31	"	"	<0.01	<0.01	
7	31	32	"	"	<0.01	<0.01	
8	32	33	"	"	0.65	<0.01	
9	33	34	"	"	<0.01	<0.01	
70	34	35	"	"	0.57	0.01	
1	35	36	"	"	0.41	0.01	
2	36	37	"	"	0.85	0.05	Upper C lens
3	37	38	"	"	0.59	0.02	34 - 47 m.
4	38	39	"	"	2.44	0.09	13 m @
5	39	40	"	"	1.36	0.05	0.86% WO ₃
6	40	41	"	"	1.51	0.07	0.03% Mo
7	41	42	"	"	0.90	0.04	
8	42	43	"	"	0.79	0.04	
9	43	44	"	"	0.77	0.03	
80	44	45	"	"	0.47	0.01	
1	45	46	"	"	0.16	<0.01	
2	46	47	"	"	0.30	0.01	
3	47	48	"	"	<0.01	<0.01	
D 6384	48	49	"	"	<0.01	<0.01	
D 6385	51	52	"	"	<0.01	<0.01	
6	52	53	"	"	0.42	0.01	
7	53	54	"	"	0.23	0.01	
8	54	55	"	"	0.82	0.03	Lower C lens
9	55	56	"	"	<0.01	<0.01	52 - 70 m.
90	56	57	1.0	0.86	0.23	<0.01	18 m @
1	57	58	"	"	0.64	0.01	0.59% WO ₃
2	58	59	"	"	0.28	0.01	0.02% Mo
3	59	60	1.0	0.90	0.69	0.01	
4	60	61	1.0	0.90	1.53	0.05	
5	61	62	1.0	0.90	0.72	0.01	
6	62	63	1.0	0.90	0.21	<0.01	
7	63	64	1.0	0.90	0.37	0.01	
8	64	65	1.0	0.90	0.45	0.02	
9	65	66	1.0	0.90	0.36	<0.01	
6400	66	67	"	1.0	1.35	0.04	
1	67	68	"	"	0.75	0.02	
2	68	69	"	"	1.24	0.04	
3	69	70	"	1.20	0.36	<0.01	

SPECIFIC GRAVITY

Depth (m):

Rock Type:

S.G. :

Determined by:

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. D 200/17

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
4	70	71	1.0	1.0	<0.01	<0.01	
5	71	72	"	"	0.03	<0.01	
D 6406	72	73	"	"	0.27	0.01	

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G.:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/17

0 - 1.77

Garnet pyroxene hornfels

This unit contains only very sparse specks of scheelite and bph is present between:

0.60 - 0.70

0.80 - 1.44

1.77 - 27.63

Biotite - pyroxene hornfels

Generally homogenous, poorly banded unit of bph between 1.77 - 14.90: poorly banded bph.

Felspar is abundant in the core between 13.44 - 13.95 metres.

Between 14.90 - 17.30: well banded bph.

Between 17.30 - 27.63: poorly banded bph.

27.63 - 33.60

Pyroxene - garnet hornfels

This unit contains pods up to 4 cm across which appear to have been calcite, but which are now largely replaced by grossular garnet. The pods are set in a ground mass of pyroxene and lesser garnet. Scheelite mineralization (non - ore grade) occurs between:

29.05 - 29.62, with large crystals at 29.29 and 32.20 - 32.29, with large crystals over the whole interval

33.60 - 47.38

Garnet hornfels

A well developed andradite skarn containing lesser pyroxene and calcite. Grainsize comparatively smaller from 39.70 - 43.60. Probable sub - grade intervals occur between:

33.60 - 34.15

36.83 - 37.03

44.82 - 45.44

The remainder appears to be of ore grade.

47.38 - 51.90

Marble

A coarsely recrystallized, poorly banded grey marble barren of scheelite mineralizing Biotite pyroxene hornfels also occur in this unit between 48.83 - 50.38 m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/17

51.90 - 69.30

Banded garnet hornfels

This unit consists of andradite skarn bands, pyroxene - rich bands and grossular - rich bands. The former are by far the most abundant and contain the majority of the scheelite mineralization.

Most of the core is of probable ore grade. Sub - grade or barren intervals are as follows:

Between 53.56 - 53.95 sub - grade skarn

Between 55.10 - 56.74 Barren bh, ph and grossular - rich bands sub grade scheelite from 56.33 - 56.74

Between 57.74 - 59.24 sub - grade skarn with some barren marble and grossular bands

Between 61.42 - 63.58: Mainly barren ph and grossular bands. Sub - grade scheelite occurs

Between 61.76 - 62.55 and 63.22 - 63.27 and is associated with minor andradite.

Between 65.64 - 65.84: sub - grade skarn.

Between 67.07 - 67.32: Barren ph and grossular bands.

Between 67.63 - 67.84: Barren ph and grossular bands.

69.30 - 74.49

Banded footwall beds

This unit consists of alternating bands of pyroxene hornfels, biotite hornfels, marble and grossular - rich bands. Two minor layers of andradite skarn (containing scheelite) are present between:

69.46 - 69.79 (sub - grade)

71.76 - 72.25 (probable ore grade)

74.49 - 82.80

Alternating biotite hornfels and pyroxene hornfels

A well banded unit with minor marble and grossular bands between 77.28 - 79.20 and from 80.83 m, associated with a garnet rich band.

A small aplite dyke occurs between 80.94 - 81.30.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 200/16

PLANNING

Proposer: M. J. Danielson. Depth: 30m.

Location: Intersection of the W30 and W70 stopes, -130m R.L.

Purpose of hole: To locate the Wedge Fault and test the position and width of the marble marker in C lens Central.

Co-ordinates: 220 203 E 564 187 N
Inclination: 0° horizontal Magnetic:
Bearing 280 Grid Target Depth:
Target: E N
Approved by: M.C. Rogers. Date: 20/1/76

SURVEY

Survey Co-ords: E N
Survey bearing: $288^{\circ}20'$ Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 220 202.8 E 564 088.2 N
R.L. of Collar: -127.6 Inclination of Hole: $+0^{\circ}50'$
Picked up by: R.J.H. Date: 28/1/76

SUMMARY

Logged by: M.J. Danielson
Results: Wedge area C lens 0 - 6m, 6m @ 1.53% WO_3
Central area C lens 17 - 33.7m, 16.7m @ 0.86% WO_3

DRILLING

Driller/Contractor: Geopeko

Date commenced: 23/1/76 Date terminated: 13/2/76

Casing: Size:	Nil		
Depth:			
Core: Size:	E17		
Depth:	33.70		

Wedge Runoff:
Wedge placed: Nil Depth:
Proposed by: Approved by:
Reason:

Extension: Nil

Reason for termination: Hole passed out of marble marker into lower C lens.

Condition of hole on completion: Final depth: 33.70m.

Casing: Nil
Cemented: No

Bore hole survey: Acid tube

Water: No

Comments on drilling conditions: Considerable core loss: 19% lost over total hole.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/16

Survey method : Acid tube
Final depth : 33.7m
Casing depth : Nil

Depth surveyed to 30m
Date surveyed : 13/2/76
Surveyed by : G. Scott Smith
Checked by : V. POWELL

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
30m	-	-	0°	0°			
	K.I.S. Survey Dept record bearing as 288°20'				I.S.G.		

REMARKS :

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. D 200/16

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.57	1.57	1.57	100
2.02	.54	.33	73
2.39	.37	.26	70
3.59	1.20	.87	72
5.20	1.61	.96	60
6.10	.90	.83	92
7.60	1.50	1.03	69
7.65	.05	.05	100
8.34	.69	.65	94
8.59	.25	.25	100
8.85	.26	.15	58
8.93	.08	.08	100
9.13	.20	.20	100
9.75	.62	.62	100
9.86	.11	.08	73
10.37	.51	.42	82
10.65	.28	.28	100
12.22	1.57	1.57	100
13.71	1.49	1.49	100
15.40	1.69	1.40	83
16.07	.67	.55	82
16.64	.57	.57	100
21.37	4.73	4.50	95
24.06	2.69	.75	28
24.45	.39	.39	100
25.10	.65	.65	100
26.34	1.24	.80	65
27.36	1.02	.70	69
27.74	.38	.38	100
28.10	.36	.36	100
29.00	.90	.39	43
29.67	.67	.50	75
30.68	1.01	.82	82
32.16	1.48	1.48	100
33.70	1.54	1.54	100
E.O.H			

GEOPEKO LIMITED - DOLPHIN

ASSAY DATA

D.D.H. No. D 200/16

SAMPLE		DEPTH (METRES)			ELEMENTS		COMMENTS
No.	From	To	Length	Length Recovered	WO ₃	Mo	
D4676	0	1	1.0	1.0	2.7	0.06	Wedge Area C lens 0 - 6m, 6m @ 1.53% WO ₃
7	1	2	1.0	0.80	1.48	0.03	
8	2	3	1.0	0.70	0.24	<0.01	
9	3	4	1.0	0.70	1.04	0.02	
80	4	5	1.0	0.50	3.03	0.09	
1	5	6	1.0	1.0	0.73	0.01	
2	6	7	1.0	0.55	<0.01	<0.01	
D4683	16	17	1.0	1.0	<0.01	<0.01	
4	17	18	1.0	1.0	1.48	0.11	
5	18	19	1.0	1.0	1.06	0.04	
6	19	20	1.0	1.0	1.00	0.05	
7	20	21	1.0	1.0	0.71	0.03	
8	21	24	3.0	1.0	1.44	0.03	
9	24	25	1.0	1.0	0.78	0.02	
90	25	26	1.0	0.55	1.47	0.07	
1	26	27	1.0	0.70	0.28	<0.01	
2	27	28	1.0	0.70	<0.01	<0.01	
3	28	29	1.0	0.45	<0.01	<0.01	
4	29	30	1.0	0.80	0.62	0.02	
5	30	31	1.0	0.85	1.84	0.04	
6	31	32	1.0	1.0	1.28	0.04	
7	32	33	1.0	1.0	0.80	0.02	
D4698	33	33.7	0.7	0.7	2.33	0.09	

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/16

LAB.		K.I.S.		LAB. K.I.S.			LAB. AMDEL			LAB. ACSL		
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	
D4680	3.03		D5098	3.10		D5099	3.26		D5100	3.26		
4690	1.47		5101	1.50		5102	1.72		5103	1.85		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/16

0 - 6.0

GARNET HORNFELS

A fine grained brown andradite garnet skarn. Moderate disseminated scheelite throughout. The unit has minor carbonate veining and is weakly brecciated probably due to proximity of Wedge Fault. Not clear whether the unit is Upper or Lower C lens but mapping in the area would indicate that it is Lower C lens.

6.0 - 6.90

BRECCIATED GARNET HORNFELS

A brecciated fine grained andradite skarn recemented in a clay matrix. No mineralisation.

6.90 - 8.85

CALCITE HORNFELS

A barren pale grey marble. Minor grossular garnet and pyroxene hornfels. This unit also shows evidence of brecciation and recementing in a clay matrix. No mineralisation.

8.85 - 16.70

BIOTITE HORNFELS

A barren grey brown fine grained biotite hornfels. Shows evidence of brecciation and recementing in a clay matrix.

8.85 - 9.86

15.80 - 16.70.

16.70 - 26.34

GARNET HORNFELS

Medium to coarse grained andradite skarn to approx 20.4m with abundant fine disseminated scheelite. 20.4 - 20.6 bh interbed.

Below 20.6 skarn is finer grained, less mineralised and weakly banded.

23m bedding 35° L.A.O.C.

Note lost core

21.37 - 24.06 = 72% lost.

Should be little doubt this unit is Upper C lens.

26.34 - 29.60

MARKER BEDS (?)

A barren mixture of bh, ch and ph. Bedding 28.1m 35° L.A.O.C.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/16

29.60 - 33.70

GARNET PYROXENE HORNFELS

A weakly banded andradite garnet diopside
skarn. Moderate disseminated mineralisation.
Bedding 33m 23° L.A.O.C.
Probably Lower C lens.

33.70 E.O.H.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/15

Survey method : Acid tube.

Depth surveyed to : 30m.

Final depth : 31.01m.

Date surveyed : 1/9/75

Casing depth :

Surveyed by : G. Scott-Smith

Checked by : M.J. Danielson

DEPTH (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates		
	Grid	Mag.	Read	Corrected		E	N	
30			-9°30'	-7°30'				
	309°20'	picked up by K.I.S. Survey Dept.						

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/15

Depth Interval (metres)	Rock Type	Frac- tures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Reco- very	R.Q.D.	Remarks (weathering)
0 - 9.72m	bfb, mottled hf.	7		clay	1m:55° 9.5m:15°	100	66	
9.72 - 12.12	bh/ah	15		clay	11.5m:40°	89	21	
12.12 - 31.01	^f bgb, lv. bh/ah	4		clay	26m:50° 29m:0°	99	72	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation) += $\frac{\text{length core } > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size, E.17 (24mms dia.)

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. D 200/15

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.48	1.48	1.48	100
2.90	1.42	1.42	100
4.39	1.49	1.49	100
7.37	2.98	2.98	100
9.72	2.98	2.98	100
10.57	0.85	0.85	100
11.03	0.46	0.38	83
11.52	0.49	0.49	100
12.12	0.60	0.42	70
15.05	2.93	2.90	99
16.20	1.15	1.12	97
17.39	1.19	1.13	95
18.24	0.85	0.85	100
21.29	3.05	3.05	100
24.36	3.05	3.05	100
27.26	2.90	2.90	100
29.17	1.91	1.85	97
31.01	1.84	1.84	100
E.O.H.			

GEOPEKO LIMITED - D 200/15 Dolphin (K.I.)

ASSAY DATA

D.D.H. No. D 200/15

SAMPLE No.	DEPTH (METRES)			ELEMENTS		COMMENTS	
	From	To	Length	Length Recovered	WO ₃		Mo
D 4190	0	1	1.0	1.0	0.01	< 0.01	
1	1	2	"	"	0.39	< 0.01	
2	2	3	"	"	0.05	< 0.01	
3	3	4	"	"	< 0.01	< 0.01	
D 4194	12	13	1.0	1.0	0.86	< 0.01	Lower C lens
5	13	14	"	"	0.24	< 0.01	
6	14	15	"	"	0.91	< 0.01	6m @ 1.11% WO ₃
7	15	16	"	"	0.44	< 0.01	
8	16	17	"	"	0.19	< 0.01	
9	17	18	"	"	6.10	0.17	
D 4200	18	19	"	"	< 0.01	< 0.01	

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

E.17 core (24mms dia.)
 whole core assayed.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/15

LAB. K.I.S.			LAB. K.I.S.			LAB. AMDEL			LAB. ACSL		
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo
D4194	0.86		D5095	0.67		D5096	1.18		D5097	0.87	

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/15

- 00 - 2.10m **BANDED FOOTWALL BEDS**
Mainly a thinly banded barren bh/ph but some fine grained andradite skarn weakly mineralized developed between 1.0 - 2.0m.
- 2.10 - 8.20m **MOTTLED HORNFELS**
A pale grey brown barren rock. Variable but mostly hornfelsic texture. This unit must relate to the similar unit in D 200/8.
- 8.20 - 12.12m **BANDED BIOTITE ACTINOLITE HORNFELS**
Thinly bedded barren brown and pale grey bh/ah.
- 12.12m - 16.55m **BANDED FOOTWALL BEDS**
Interbedded green ph and weakly mineralized andradite garnet skarn.
Coarse scheelite developed 16.95 - 17.39m.
- 16.55 - 24.36m **LOWER METAVOLCANICS**
Barren pale brown rock flecked with micas. Variable texture but vaguely volcanic.
- 24.36 - 31.01m **BIOTITE ACTINOLITE HORNFELS**
Barren thinly bedded brown and pale grey bh/ah.
31.01m E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 200/14

PLANNING

Proposer: M. Danielson.

Depth: 60m

Location: P.18.

Purpose of hole: B lens oreblocking.

Co-ordinates: 220 200 E 564 180 N

Inclination: +63° Magnetic

Bearing: 360 Grid Target depth:

Target: E N

Approved by: M.C. Rogers. Date: 1/5/75

SURVEY

Survey Co-ords: E N

Survey bearing: 01°20' Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 220 199.7 E 564 190.9 N

R.L. of collar: -70.0 Inclination of hole: +62°40'

Picked up by :R.J.H. Date:13/5/75

SUMMARY

Logged by :M.J. Danielson.

Results: B Lens 7 - 15m. 8m @ 0.46% WO₃
26 - 32m. 6m @ 0.90% WO₃
35 - 46m. 11m @ 0.51% WO₃

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 9/5/75

Date terminated: 22/5/75

Casing: Size : NIL

Depth :

Core: Size : A.17

Depth : 54.56

Wedge Runoff:

Wedge placed: NIL

Depth:

Proposed by :

Approved by:

Reason:

Extension: NIL

Reason for termination: hole passed out of B lens sequence.

Final depth: 54.56m

Condition of hole on completion:

Casing : NIL

Cemented : No.

Bore hole survey: Survey to 170'

Water: NIL

Comments on drilling conditions:

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/14

Survey method : Multishot camera.

Final depth : 54.56m

Casing depth : NIL.

Depth surveyed to : 51.82m

Date surveyed : 22.5.75

Surveyed by : M.J. Danielson.

Checked by : V.J. Powell.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		W	N
3.05	3°30'	354°30'	+27°	+63°	+2.72	0.13	1.38
15.24	3°	354°	+27°15'	+62°45'	+13.49	0.71	6.93
30.48	2°30'	353°30'	+27°15'	+62°45'	+27.04	1.43	13.88
45.72	4°	355°	+27°15'	+62°45'	+40.52	2.03	20.82
51.82	4°	355°	+27°15'	+62°45'	+45.94	2.27	23.63

REMARKS

GEOPEKC LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/14

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 19.51	gph ch	4		clay carbonate		96	81	marble leached 14 - 18m
19.51 - 26.52	bph	10		clay, minor pyrite. Chlorite 23.5 - 24.0m.		74	28	Possible Fault zone. 23.5 - 24.0m
26.52 - 40.23	gph ph	6		clay		88	41	Bad ground, 30.4 - 32.3 33.0 - 34.0 38.2 - 38.4
40.23 - 47.55	gph	3		clay		95	75	Bad ground: 41.66 - 42.37 which is a clay recemented breccia.
47.55 - 54.56	bph bh	+20		clay minor chlorite 51.5 - 53.0m.		80	16	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core } > 10 \text{ cms}}{\text{length recovered}} \%$
- Core size. A.17 (32mms. dia.) DRILLED

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/14

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 2.44	2.44	2.44	100
5.49	3.05	3.05	100
8.53	3.04	3.00	99
11.58	3.05	3.00	98
13.41	1.83	1.73	95
15.85	2.44	2.09	86
17.68	1.83	1.83	100
19.51	1.83	1.70	93
20.73	1.22	1.01	83
23.47	2.74	1.91	70
24.54	1.07	.67	63
26.52	1.98	1.58	80
29.56	3.04	3.0	99
32.31	2.75	1.37	50
33.83	1.52	1.46	96
35.96	2.13	1.96	92
38.40	2.44	2.44	100
40.23	1.83	1.83	100
42.37	2.14	1.86	87
45.11	2.74	2.40	87
46.48	1.37	1.31	96
47.55	1.07	1.20	112
48.77	1.22	.92	75
50.90	2.13	1.60	75
53.95	3.05	2.50	82
54.56	.61	.61	100
E.O.H.			

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D 200/14

SAMPLE No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
D 3719	1	2	1.0	1.0	0.02	< 0.01	
20	2	3	"	"	0.22	0.01	
1	3	4	"	"	0.41	< 0.01	
2	4	5	"	"	0.65	0.01	
3	5	6	"	"	< 0.01	< 0.01	
4	6	7	"	"	"	"	
5	7	8	"	"	0.28	< 0.01	
6	8	9	"	"	0.66	"	
7	9	10	"	"	0.45	"	8m @
8	10	11	"	"	0.59	0.01	
9	11	12	"	"	0.54	0.01	0.46% WO ₃
30	12	13	"	"	0.31	< 0.01	
1	13	14	"	"	0.44	"	
2	14	15	"	0.81	0.42	"	
3	15	16	"	0.84	< 0.01	"	
4	16	17	"	1.0	"	"	
5	17	18	"	1.0	"	"	
6	18	19	"	0.89	"	"	
7	19	20	"	0.84	0.49	0.39	
8	20	21	"	0.95	0.10	< 0.01	
9	21	22	"	0.65	0.01	"	
40	22	23	"	0.65	0.05	"	
3741	23	24	"	0.54	0.02	< 0.01	
2	24	25	"	0.82	0.02	"	
3	25	26	"	0.82	0.12	"	
4	26	27	"	0.94	0.62	0.01	
5	27	28	"	1.0	0.28	0.06	6m @
6	28	29	"	0.95	0.37	< 0.01	
7	29	30	"	0.77	3.20	0.25	0.90% WO ₃
8	30	31	"	0.48	0.42	0.04	
9	31	32	"	0.44	0.50	0.07	
50	32	33	"	0.89	0.02	< 0.01	
1	33	34	"	1.0	0.11	"	
2	34	35	"	0.82	0.14	"	
3	35	36	"	0.93	0.30	"	
4	36	37	"	1.0	0.19	"	

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D 200/14

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D 3765	37	38	1.0	1.0	0.28	<0.01			11m @ 0.51% WO ₃
6	38	39	"	"	0.10	"			
7	39	40	"	"	0.67	0.04			
8	40	41	"	"	0.36	0.01			
9	41	42	"	0.86	0.77	0.04			
60	42	43	"	0.76	0.88	0.02			
1	43	44	"	0.95	1.10	0.06			
2	44	45	"	0.80	0.49	0.02			
3	45	46	"	0.95	0.50	0.01			
74	46	47	"	1.0	0.21	0.04			
D 3765	47	48	1.0	1.0	0.11	<0.01			

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D200/14

LAB.		K.I.S.		LAB.		K.I.S.		LAB. A.M.D.E.L.			LAB. A.C.S.L.		
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	WO ₃ - A.C.S.L. check & repeat sample.	
D 3720	0.22	0.01	D 3917	0.23	<0.01	D 3918	0.35		D 3919	0.35			
3730	0.31	<0.01	3920	0.27	<0.01	3921	0.39		3922	0.38			
3740	0.05	<0.01	3923	0.03	<0.01	3924	0.06		3925	0.063			
3747	3.20	0.25	3926	3.00	0.27	3927	3.60		3928	4.08	4.01		
3757	0.67	0.04	3929	0.74	0.04	3930	0.76		3931	0.81			
D 3764	0.21	0.04	D 3932	0.21	0.04	D 3933	0.30		D 3934	0.34			

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D200/14

- 0 - 4.90m GARNET PYROXENE SKARN
Weak disseminated scheelite in a pyroxene rich fine grained grossular and andradite rich skarn.
- 4.90m - 7.40m MARBLE
Barren grey marble.
- 7.40m - 12.2m GARNET PYROXENE SKARN
Moderate disseminated scheelite in a fine grained andradite skarn not so pyroxene rich as the unit described earlier.
- 12.20m - 19.0m MARBLE
Mostly barren grey marble. Some weak disseminated scheelite. 12.2 - 14.5m.
Weakly leached between 14 - 18m.
Significant core loss. 13.41 - 15.85 = 14% lost.
- 19.0m - 26.0m BIOTITE PYROXENE HORNFELS
A barren mottled grey (bh) and green (ph) rock.
Significant core losses:
19.51 - 20.73 17% lost
20.73 - 23.47 30% "
23.47 - 24.54 37% "
Some free MoS₂ at 20.0m. Possible fault zone 23.5 - 24.0. where there is some rubbly core and chlorite on fracture surfaces. Some core lost between 23.47 - 24.54m = 37% lost.
- 26.0m - 37.80m GARNET PYROXENE HORNFELS
Variable mineralized pyroxene rich andradite and grossular garnet skarn.
Some coarse scheelite at 29.60m and also a grey sulphide mineral on the fracture surface. Bismuth? Remainder of scheelite mineralization is finely disseminated.
Core loss: 29.56 - 32.31 = 50% lost.
In this section the appearance of the remaining core would indicate that the lost core was ground away in the barrel.
- 37.80m - 40.00m PYROXENE HORNFELS
Very weak disseminated scheelite in a pale green siliceous fine grained hornfels.
- 40.0 - 48.85m GARNET PYROXENE HORNFELS
Fine grained pyroxene rich andradite and grossular garnet skarn. Fine disseminated scheelite to 46.5m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/14

48.85 - 54.10m

BIOTITE PYROXENE HORNFELS

Mottled green (ph) and grey (bh) rock. No mineralization. Core is very rubbly in this interval and there is minor chlorite on fracture surfaces 51.5 - 53.0m.

Significant core loss:-

47.55 - 48.77	=	25%	lost
48.77 - 50.90	=	25%	"
50.90 - 53.95	=	18%	"

54.10m - 54.56m

BIOTITE HORNFELS

Barren purplish brown fine grained bh.

Bedding: 54.2m 40° L.A.O.C.

54.56m E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D200/13

PLANNING

Proposer: M.J. Danielson

Depth: 60m

Location: 220200E (P.18)

Purpose of hole: B lens oreblocking and locate Wedge Fault.

Co-ordinates: 220200 E 564180 N
Inclination: +30° Magnetic
Bearing: 180° Grid Target depth: 0 - 60m
Target: E N
Approved by: M.C. Rogers. Date: 1/4/75

SURVEY

Survey Co-ords: E N
Survey bearing: 180°30' Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 220200.2 E 564179.2 N
R.L. of collar: -72.1 Inclination of hole: +30°40'
Picked up by : R.J.H. Date: 18/4/75

SUMMARY

Logged by : M.J. Danielson.
Results: B lens. 10 - 19 9m @ 1.007% WO₃
30 - 33 3m @ 1.24% WO₃

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 17/4/75

Date terminated: 29/4/75

Casing: Size :	NIL		
Depth :			
Core: Size :	A17		
Depth :	54.56m		

Wedge Runoff:

Wedge placed: NIL

Depth:

Proposed by :

Approved by:

Reason:

Extension: NIL

Reason for termination: passed out of B lens sequence.

Final depth: 54.56m.

Condition of hole on completion:

Casing : NIL

Cemented : NO

Bore hole survey: Yes. Surveyed to 51.82m.

Water: NIL.

Comments on drilling conditions: Considerable core loss. Ground would not core easily and appeared to grind away in the barrel.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D200/13

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 2.44	2.44	2.12	87
4.27	1.83	1.51	83
5.49	1.22	1.08	89
8.53	3.04	1.52	50
10.06	1.53	1.34	88
14.32	4.26	3.11	73
17.37	3.05	2.93	96
20.42	3.05	3.05	100
23.47	3.05	3.05	100
25.91	2.44	2.20	90
26.67	.76	.76	100
29.87	3.20	3.20	100
32.61	2.74	2.74	100
36.27	3.66	3.45	94
38.10	1.83	.86	47
39.93	1.83	.51	28
41.76	1.83	1.83	100
44.80	3.04	.93	31
49.07	4.27	2.40	56
50.29	1.22	.81	66
50.90	.61	.31	50
52.12	1.22	1.02	84
53.64	1.52	1.05	69
54.56	.92	.47	51
E.O.H.			

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/13

Survey method : Multishot camera.
Final depth : 54.56m.
Casing depth : NIL.

Depth surveyed to : 51.82m.
Date surveyed : 28/4/75
Surveyed by : G.L. Buckland.
Checked by : M.J. Danielson.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		E	S
9.14	184	175	+ 59°15'	+ 30°45'	+ 4.68	0.69	7.83
15.24	180	171	+ 59°30'	+ 30°30'	+ 7.77	1.37	13.03
30.48	181	172	+ 59°30'	+ 30°30'	+ 15.51	3.42	26.01
42.67	181	172	+ 60°	+ 30	+ 21.61	4.89	36.46
51.82	181°30'	172°30'	+ 59°45'	+ 30°15'	+ 26.19	5.98	44.30

REMARKS

GEOPECO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D200/13

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 17.37	B lens gph, ch	< 5		clay, minor carbonate.		78	25	Significant core loss.
17.37 - 29.87	ch	6		carbonate		98	39	leached 26.6 - 27.1 28.7 - 28.8
29.87 - 36.27	gph, ph	9		clay, carbonate.		97	45	
36.27 - 54.56	bh	+ 20		clay		56	9	recemented breccia. 39.8 - 44.0 Significant core loss due to faulting.

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}} \%$
- Core size. 0 - 54.56 A.17
(32mms. diameter). DRILLED

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D 200/13

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D3626	0	1	1.0	0.86	0.26	<0.01			
7	1	2	"	0.94	0.06	<0.01			
8	2	3	"	0.86	0.15	<0.01			
9	3	4	"	0.90	0.01	<0.01			
30	4	5	"	0.80	0.04	<0.01			
1	5	6	"	0.86	0.01	<0.01			
----	6	7	NIL	No core recovered.					
D3632	7	8	1.0	0.92	0.57	0.01			
3	8	9	"	0.80	0.08	<0.01			
4	9	10	"	0.79	0.21	<0.01			
5	10	11	"	0.75	1.06	0.01			
6	11	12	"	0.75	1.48	0.04			
7	12	13	"	0.75	0.49	0.02			
8	13	14	"	0.75	0.31	<0.01			B lens
9	14	15	"	0.92	0.55	<0.01			9m @
40	15	16	"	0.85	1.01	<0.01			1.07% WO ₃
1	16	17	"	0.97	4.06	0.04			
2	17	18	"	0.91	0.52	0.07			
3	18	19	"	1.0	0.27	<0.01			
4	19	20	"	"	<0.01	<0.01			
D3645	29	30	1.0	1.0	0.13	<0.01			
6	30	31	"	"	0.69	0.01			B lens
7	31	32	"	"	2.76	0.08			3m @
8	32	33	"	"	0.28	<0.01			1.24% WO ₃
9	33	34	"	"	0.10	<0.01			
D3650	34	35	"	"	0.02	<0.01			

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/13

LAB. K.I.S.			LAB. K.I.S.			LAB. A.M.D.E.L.			LAB. A.C.S.L.			A.C.S.L. check & repeat sample.
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	
D 3626	0.26	<0.01	D 3908	0.22	<0.01	D 3909	0.32		D 3910	0.32		
3638	0.31	<0.01	3911	0.25	<0.01	3912	0.39		3913	0.40		
D 3647	2.76	0.08	D 3914	2.47	0.08	D 3915	2.90		D 3916	2.78	2.81	

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/13

- 0 - 38.3m B LENS
- 0 - 1.0 Garnet pyroxene hornfels
Very weakly mineralised gph.
- 1.0 - 2.1m Marble
Barren grey ch.
- 2.1 - 5.2m Biotite hornfels
Barren grey bh.
- 5.2 - 18.3m Garnet pyroxene hornfels
Moderate disseminated scheelite in a dominantly green pyroxene rich skarn with minor andradite skarn developed. Minor chalcopyrite 16.1 - 16.3m
Possible fault at 5.7m. Some broken ground with minor chlorite, lost core between 5.49 - 8.53m. The scheelite mineralization commences immediately below 5.7m.
- 18.3 - 30.5 Marble
Barren grey ch. No recognisable bedding.
- 30.5 - 33.0 Garnet pyroxene hornfels
Very weakly mineralized gph.
- 33.0 - 38.3m Pyroxene hornfels
Mostly a barren pale green ph with some minor grey bh interbeds.
Bedding; 36m 45° L.A.O.C.
Significant core loss in this section.
- 38.3m - 44.0m FAULT ZONE
Mostly a pale green ph and grey bh in the form of a clay cemented breccia. Abundant core loss. e.g. 38.10 - 44.8m
51% core lost.
- 44.0m - 50.8m BIOTITE HORNFELS
Barren grey bh. Significant core loss e.g. 44.8 - 54.46
38% core lost.
- 50.8 - 53.0m SPOTTED BIOTITE HORNFELS
A barren pale green fine grained rock with dark grey / black spots up to 5mms. diameter.
Very similar in appearance to the core 135 - 141m in surface ddh D 416 drilled ahead of the face on the first leg of the Dolphin decline. ~~Very similar to core 135 - 141m~~
- 53.0 - 54.56m BIOTITE HORNFELS
Barren grey bh.
- 54.56m E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D200/12

PLANNING

Proposer: M.J. Danielson. Depth: 40m.
Location: 220200E (P18) drilling cuddy, -75m R.L.

Purpose of hole: Exploration of B lens.

Co-ordinates: 220200 E 564183 N
Inclination: +90 Magnetic
Bearing: 360° Grid Target depth:
Target: E N
Approved by: M.C. Rogers. Date: 1/4/75

SURVEY

Survey Co-ords: E N
Survey bearing: 144°30' Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 220200.4 E 564182.0 N
R.L. of collar: -70.7 Inclination of hole: 89°10'
Picked up by : R.J.H. Date: 14/4/75

SUMMARY

Logged by : M.J. Danielson.
Results: B lens.
0 - 3 3m a) 0.94% WO₃
8 - 14 6m a) 0.73% WO₃

DRILLING

Driller/Contractor: A.D.D.
Date commenced: 11/4/75 Date terminated: 17/4/75
Casing: Size : NIL
Depth :
Core: Size : 4.17
Depth : 45.11

Wedge Runoff:
Wedge placed: NIL Depth:
Proposed by : Approved by:
Reason:

Extension: NIL Hole passed out of
Reason for termination: b lens sequence. Final depth: 45.11

Condition of hole on completion:
Casing : NIL
Cemented : No.

Bore hole survey: NO.

Water: Small trickly on completion - not measured.

Comments on drilling conditions: Considerable core loss throughout.
Rock did not core easily and appeared to grind away in core barrel.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/12

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 3.66	3.66	3.52	96
6.10	2.44	.81	33
8.84	2.74	1.60	58
10.67	1.83	1.10	60
12.80	2.13	1.21	57
14.93	2.13	.94	44
17.68	2.75	2.27	83
18.59	.91	.65	71
21.64	3.05	3.13	100
24.69	3.05	3.03	99
27.73	3.04	3.04	100
30.48	2.75	1.90	69
33.53	3.05	3.05	100
36.58	3.05	2.20	72
39.62	3.04	2.60	86
42.67	3.05	2.62	86
45.11	2.44	2.30	94
E.O.H.			

GEOPEK LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/12

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 18.59m	gph	+10		clay		65	20	broken ground 3.6 - 8.8 10.6 - 17.7 In this section some core appears to have been ground away.
18.59 - 27.73	ch	4		carbonate		100	81	leached ch 23.27 - 23.67
27.73 - 39.62	ch, ph	8		clay & carbonate		82	23	leached ch and ph 27.73 - 30.48 Some core ground away , 33.53 - 36.58m.
39.62 - 45.11	bh	9		clay minor carbonate & pyrite.	41m:32°	90	36	
45.11m	E.O.H.							

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}} \%$
- Core size. 0 - 45.11 A17. (32mms diameter).

GEOPEKO LIMITED - Dolphin Mine

ASSAY DATA

D.D.H. No. D200/12

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D3389	0	1	1.0	1.0	0.72	0.02			B lens 3m @ 0.94% WO ₃
90	1	2	"	"	0.97	0.02			
71	2	3	"	"	1.14	0.05			
2	3	4	"	0.70	0.02	< 0.01			
3	4	5	"	0.66	0.05	< 0.01			
4	5	6	"	NIL	-	-			
5	6	7	"	0.55	0.68	0.01			
6	7	8	"	0.55	0.03	< 0.01			
7	8	9	"	0.55	0.54	< 0.01			B lens 6m @ 0.73% WO ₃
8	9	10	"	0.66	0.54	< 0.01			
9	10	11	"	0.68	0.42	< 0.01			
3400	11	12	"	NIL	-	-			
1	12	13	"	0.94	0.65	< 0.01			
2	13	14	"	0.43	1.53	0.04			
3	14	15	"	0.42	0.14	< 0.01			
4	15	16	"	1.0	0.57	< 0.01			
D3405	16	17	"	0.94	0.12	< 0.01			

SPECIFIC GRAVITY

Determined by:

Depth (m) :
Rock Type :
S.G. :

NOTE: There was no assay taken for intervals 5 - 6 and 11 - 12 due to high core loss, probably due to grinding away in barrel.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/12

LAB.		K.I.S.		LAB.		K.I.S.		LAB.			A.C.S.L.		A.C.S.L. check & repeat sample
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	WO ₃ - A.C.S.L.	
D 3391	1.14	0.05	D 3902	1.12	0.05	D 3903	1.30		D 3904	1.29		1.29	
3398	0.54	0.01	3905	0.47	0.01	3906	0.70		3907	0.66			

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No.D200/12

0 - 16.5m

GARNET PYROXENE HORNFELS

A weakly mineralised pyroxene rich andradite and grossularite garnet skarn. Scheelite is finely disseminated.

There is significant core loss although maybe due to grinding away particularly 10.7 - 17.7m.

0 - 17.68m 6.23m core lost.

Core is very sheared around 7 - 8m and may represent a fault.

16.5 - 33.6m

MARBLE

Barren pale grey B lens marble.

Core recovery is better in this interval although there are some leached sections.

e.g. 23.27 - 23.67m

A pyroxene and grossular garnet interbed between 28 - 30m is extremely leached and there is core lost.

27.73 - 30.48m 0.85m core lost.

33.6m - 39.6m

PYROXENE HORNFELS

^{Pale}
Pale green very siliceous green hornfels.
No mineralization.

33.6 - 36.0m is grossular garnet rich and is weakly leached.

39.6 - 45.11

BIOTITE HORNFELS

Barren grey fine grained biotite hornfels. Bedding 41m 32°. Note that there is also significant core loss in this section.

39.62 - 45.11m 0.59m core lost.

45.11 E.O.H.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/

56.0 - 60.10m tuffite (?)

Medium grained weakly fragmental texture. Slightly spotted. No mineralization. Pale grey green in colour and contains abundant mica. Moderately broken with abundant clay 58.5 - 59.1m.

60.10 - 61.0 garnet pyroxene hornfels

Weakly mineralized pyroxene and grossular garnet hornfels.

61.0 - 65.30m biotite pyroxene hornfels

Barren purplish brown biotite hornfels with moderate pale green interbeds of pyroxene hornfels. Minor grossular garnet developed 64.1 - 64.8m.

Bedding: 62m 50° L.A.O.C.

65.30 - 86.0m

HANGINGWALL BIOTITE HORNFELS

A fine grained barren brown biotite hornfels which has a prominent white fleck throughout.

Quality of core throughout this section is moderate to good. There is minor chlorite on joint surfaces at 78m but there is no apparent faulting.

86.0 - 103.10m

PYROXENE GARNET HORNFELS

Typical pgh with a pale green pyroxene groundmass with carbonate pods up to 4cm diameter (av. 1.5cm dia.) rimmed by grossular garnet. There are minor andradite garnets developed and the unit is weakly mineralized but is all < 0.5% WO₃.

The quality of core in this section is moderate to 100m but is poor between 100 - 103m with some chlorite on fracture surfaces.

103.10 - 104.65m

GARNET HORNFELS

Medium to coarse grained very highly mineralized andradite garnet skarn.

104.65 - 105.64m

GARNET PYROXENE HORNFELS

The upper contact of this unit is stratigraphic with overlying gh at 30° L.A.O.C.

This unit is mostly a green pyroxene hornfels, pale pink grossular garnet, minor irregular patches of carbonate and some bh at 104.8m, the unit vaguely resembles pgh, and is only very weakly mineralized.

105.64 - 107.90m

GARNET HORNFELS

Medium to fine grained andradite garnet skarn which is highly mineralized. The unit is weakly banded. 105.8m 60° L.A.O.C.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D200/11

PLANNING

Proposer: M.J. Danielson Depth: 150m.
Location: 220220E (P13) drilling cuddy, off the main decline.

Purpose of hole: Test C lens south of Central and Wedge Faults and look for any further S block down faulting.

Co-ordinates: 220200 E 564060 N
Inclination: -60° Magnetic
Bearing: 180° Grid Target depth:
Target: E N
Approved by: M.C. Rogers. Date: 13/3/75

SURVEY

Survey Co-ords: E N
Survey bearing: $182^{\circ}31'31''$ Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 220 200.837 E 564 057.856 N
R.L. of collar: -91.76 Inclination of hole:
Picked up by : R.J.H. $-58^{\circ}54'56''$
Date: 14/3/75

SUMMARY

Logged by : M.J. Danielson.
Results: B lens 14 - 16, 2m @ 2.06% WO_3
B lens 29 - 44, 15m @ 0.81% WO_3
C lens 103 - 131, 28m @ 0.55% WO_3

DRILLING

Driller/Contractor: A.D.D.
Date commenced: 13/3/75 Date terminated: 1/4/75

Casing: Size :	BX			
Depth :	1.52			
Core: Size :	NQ	BQ		
Depth :	0.8	158.21		

Wedge Runoff:
Wedge placed: Depth:
Proposed by : Approved by:
Reason:

Extension: NIL Hole intersected lower
Reason for termination: metavolcanic unit. Final depth: 158.21m

Condition of hole on completion:
Casing : 1.52m BX remains
Cemented : Yes.

Bore hole survey: Surveyed to 158.19m.
Water: Normal water return throughout.
Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 3.96	3.96	3.96	100
5.18	1.22	1.04	85
8.37	3.19	3.12	98
11.43	3.06	3.16	103
14.48	3.05	3.10	102
17.53	3.05	2.99	98
20.65	3.12	3.05	98
23.39	2.74	2.67	97
25.07	1.68	1.68	100
26.62	1.55	1.55	100
29.49	2.87	2.68	93
32.54	3.05	2.99	98
35.23	2.69	2.69	100
38.27	3.04	3.21	105
40.89	2.62	2.60	99
41.19	.30	.30	100
42.41	1.22	1.22	100
44.25	1.84	1.83	100
47.29	3.04	3.05	100
50.34	3.05	3.05	100
50.90	.56	.56	100
53.34	2.44	2.49	102
56.38	3.04	3.10	102
58.52	2.14	2.20	102
59.13	.61	.56	92
62.17	3.04	3.15	104
65.23	3.06	3.12	102
68.27	3.04	2.93	96
71.32	3.05	3.15	103
74.06	2.74	2.79	102
77.50	3.44	3.70	107
79.99	2.49	2.25	90
83.11	3.12	3.05	98
88.67	5.56	5.60	101
91.72	3.05	3.10	102
94.79	3.07	3.07	100
97.84	3.05	3.07	101
100.71	2.87	2.87	100
103.07	2.36	2.50	106
106.12	3.05	3.08	101
107.34	1.22	1.17	96
108.80	1.46	1.42	97
111.85	3.05	3.10	102

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D. D. H. No. D 200/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 113.07	1.22	1.29	106
116.10	3.03	2.98	98
117.79	1.69	1.60	95
120.83	3.04	1.70	56
121.61	.78	.25	32
122.22	.61	.61	100
123.59	1.37	1.37	100
125.42	1.83	1.85	101
127.05	1.63	1.69	104
128.27	1.22	1.22	100
129.48	1.21	1.11	92
130.25	.77	.70	91
131.06	.81	.65	80
132.20	1.14	1.20	105
132.82	.62	.62	100
134.11	1.29	1.40	109
136.17	2.06	2.03	99
137.28	1.11	1.11	100
138.04	.76	.03	4
139.26	1.22	.33	27
139.95	.69	.25	36
140.13	.18	.20	111
141.60	1.47	1.49	101
143.18	1.58	1.59	100
144.02	.84	.80	95
144.70	.68	.64	94
146.23	1.53	1.54	100
148.66	2.43	2.48	102
149.98	1.32	1.23	93
152.12	2.14	2.25	105
155.16	3.04	3.05	100
158.21	3.05	3.05	100
E.O.H.			

GEOPEKO LIMITED - Dolphin Mine

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/11

Survey method : Kodak Multishot Camera
 Final depth : 158.21m
 Casing depth : 1.52m

Depth surveyed to : 158.19m.
 Date surveyed : 1.4.75
 Surveyed by : V. Powell
 Checked by : G.B./M.D.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		E	N S
15.24	184.5°	175.5°	-31°	-59°	13.06	0.60	7.82
30.48	184.25°	175.25°	-31.25°	-58.75°	26.10	1.23	15.68
45.72	184.5°	175.5°	-31.5°	-58.5°	39.10	1.83	23.62
60.96	188°	179°	-31.75°	-58.25°	52.08	2.32	31.59
76.20	187.5°	178.5°	-31.5°	-58.5°	65.04	2.65	39.59
91.44	188.5°	179.5°	-31.75°	-58.25°	78.04	2.78	47.56
106.68	188.5°	179.5°	-32.25°	-57.75°	90.95	2.86	55.65
121.92	189°	180°	-32.25°	-57.75°	103.86	2.92	63.77
137.16	189°	180°	-32.25°	-57.75°	116.75	2.92	71.90
152.40	189°	180°	-31.75°	-58.25°	129.69	2.92	79.94
158.19	190.5°	181.5°	-31.25°	-58.75°	134.63	2.86	82.96

REMARKS

GEOPEKC LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/11

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 16.0	bh, ph, gph	5		clay		99	78	Bad ground: 13.0 - 13.2 with minor chlorite.
16.0 - 23.39	bh	3		clay pyrite	21m:45°	97	81	
23.39 - 26.62	ph	9		clay		100	50	bad ground: 24.5 - 25.0
26.62 - 38.27	ph, gph	6		clay	32m:40° 36m:30°	99	69	
38.27 - 42.41	gph	6		clay		100	64	bad ground: 40.2 - 40.8 42.0 - 42.3
42.41 - 56.38	ch	1		clay carbonate.	47m:55°	100	91	
56.38 - 62.17	gph, bph	11		clay carbonate.	62m:50°	100	42	
62.17 - 86.23	bh	7		clay, minor pyrite		100	57	bad ground: 76.5 - 78.0 chlorite at 77.5m.

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}} \%$
- Core size. DRILLER

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D200/11

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
86.23 - 103.07	pgh	7		clay		100	62	chlorite 100 - 103m.
103.07 - 116.10	gh, gph banded ch/gh/bh	6		clay	112m:60° 113m:45° 116m:55°	100	61	bad ground: 104.8 - 105.6 107.8 - 108.2
116.10 - 123.59	banded gh	+10		clay		74	34	Note: Significant core loss in this interval.
123.59 - 141.60	banded gh, banded footwall beds.	+10		clay chlorite	129m:55° 137 - 140. 133m:55° 141m:40°	88	38	Significant core loss 137.3 - 140.0
141.60 - 158.21	Banded footwall beds, lv.	4		clay	144m:40° 147m:40°	100	56	
158.21m E.O.H.								

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}} \%$
- Core size.

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D 200/11

SAMPLE No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
D3270	7	8	1.0	1.0	0.17	<0.01	
1	8	9	"	"	0.02	"	
2	9	10	"	"	0.03	"	
3	10	11	"	"	0.71	0.01	
4	11	12	"	"	0.01	<0.01	
5	12	13	"	"	0.21	"	
6	13	14	"	"	0.14	"	
7	14	15	"	"	1.22	0.03	B lens 2m @ 2.06% WO ₃
8	15	16	"	"	2.90	0.10	
D3279	16	17	"	"	0.03	<0.01	
D3280	29	30	1.0	1.0	1.08	0.07	B lens 15m @ 0.81% WO ₃
1	30	31	"	"	0.31	0.01	
2	31	32	"	"	0.14	<0.01	
3	32	33	"	"	0.24	"	
4	33	34	"	"	0.26	"	
5	34	35	"	"	0.32	"	
6	35	36	"	"	0.09	"	
7	36	37	"	"	0.38	0.01	
8	37	38	"	"	0.86	0.02	
9	38	39	"	"	1.35	0.05	
90	39	40	"	"	1.80	0.06	
1	40	41	"	"	0.22	<0.01	
2	41	42	"	"	3.22	0.12	
3	42	43	"	"	1.42	0.04	
4	43	44	"	"	0.45	<0.01	
D3295	44	45	1.0	1.0	0.11	<0.01	
D3301	90	91	1.0	1.0	0.45	<0.01	
2	91	92	"	"	0.12	"	
3	92	93	"	"	0.05	"	
4	93	94	"	"	0.09	"	
5	94	95	"	"	0.18	"	
6	95	96	"	"	0.05	"	
7	96	97	"	"	0.03	"	
8	97	98	"	"	0.11	"	
9	98	99	"	"	0.11	"	
X10	99	100	"	"	0.20	"	

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No D 200/11

SAMPLE No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
D3311	100	101	1.0	1.0	0.04	<0.01		
2	101	102	"	"	0.04	"		
3	102	103	"	"	0.11	"		
4	103	104	"	"	1.28	"		
5	104	105	"	"	0.59	"		
6	105	106	"	"	0.33	"		
7	106	107	"	"	0.73	"		
8	107	108	"	"	1.03	0.01		
9	108	109	"	"	0.07	<0.01		
20	109	110	"	"	0.94	0.02		
1	110	111	"	"	0.80	0.02		C lens
2	111	112	"	"	<0.01	<0.01		
3	112	113	"	"	0.04	<0.01		28m @
4	113	114	"	"	0.92	0.03		
5	114	115	"	"	0.66	0.01		0.55% WO ₃
6	115	116	"	"	0.30	0.01		
7	116	117	"	"	0.34	0.01		
8	117	118	"	0.80	0.15	<0.01		
9	118	119	"	0.58	0.11	<0.01		
30	119	120	"	0.53	0.72	0.02		
1	120	121	"	0.50	0.38	<0.01		
2	121	122	"	0.65	0.30	"		
3	122	123	"	1.0	1.08	0.02		
4	123	124	"	"	0.28	<0.01		
5	124	125	"	"	0.32	"		
6	125	126	"	"	0.61	"		
7	126	127	"	"	0.42	"		
8	127	128	"	"	0.71	"		
9	128	129	"	"	0.84	"		
40	129	130	"	"	0.62	"		
1	130	131	"	"	0.74	"		
2	131	132	"	"	0.08	"		
3	132	133	"	"	0.02	0.07		
4	133	134	"	"	0.30	<0.01		
D3345	134	135	"	"	0.01	"		

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D200/11

LAB. K.I.S.		LAB. K.I.S.			LAB. A.M.D.E.L.			LAB. A.C.S.L.			A.C.S.L., check & repeat sample.	
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃		Mo
D 3275	0.21	<0.01	D 3881	0.22	< 0.01	D 3882	0.35		D 3883	0.31		
3284	0.26	<0.01	3884	0.25	<0.01	3885	0.36		3886	0.35	0.37	
3295	0.11	<0.01	3887	0.13	< 0.01	3888	0.31		3889	0.17		
3310	0.20	<0.01	3890	0.20	< 0.01	3891	0.24		3892	0.26		
3314	1.28	<0.01	3893	1.26	< 0.01	3894	1.40		3895	1.32	1.34	1.35
3325	0.66	0.01	3896	0.61	< 0.01	3897	0.76		3898	0.75		
D 3338	0.71	<0.01	D 3899	0.69	< 0.01	D 3900	0.80		D 3901	0.77		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/

0 - 4.76m

BIOTITE HORNFELS

A pale purplish brown biotite hornfels with minor green pyroxene hornfels. No mineralization.

This unit would be the hornfels in the immediate B lens hangingwall.

4.76 - 65.30m

B LENS

4.76 - 8.70 pyroxene hornfels

Fine to medium grained and mostly barren. Coarse scheelite at 7.50m.

8.70 - 16.0 garnet pyroxene hornfels

This is a mottled variety of green pyroxene hornfels and pale pink grossular garnet. The unit is very weakly mineralized, with some coarse scheelite between 14.9 - 15.5m

Core is moderately broken between 13.0 - 13.2m with some chlorite on fracture surfaces.

16.0 - 23.40 biotite hornfels

The upper contact of this unit is definitely stratigraphic and not faulted. Contact angle is 15° L.A.O.C.

This unit is very typical pale purplish brown barren fine grained biotite hornfels. Core is weakly broken 22 - 23m but contact with underlying pyroxene hornfels also appear stratigraphic.

23.40 - 29.26 pyroxene hornfels

Barren pale green fine grained hornfels.
Bad ground 24.5 - 25.0m.

29.26 - 36.90 garnet pyroxene hornfels

This unit is weakly to moderately mineralized grossular garnet and pyroxene skarn. There is minor development of andradite garnet.

Bedding: 32m 30° L.A.O.C.
36m 30° "

36.90 - 40.80 garnet pyroxene hornfels

Highly mineralised andradite garnet and pyroxene skarn.
Bad ground: 40.2 - 40.8m.

40.80 - 43.80 garnet pyroxene hornfels

Similar to the unit immediately above but grossular garnet is now more predominant. High grade mineralization.

43.80 - 56.0 marble

Grey B lens marble. The unit is not completely barren but the few specks of scheelite observed do not warrant splitting this section for assay.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/

107.90 - 112.90m BANDED CALCITE GARNET BIOTITE HORNFELS

This section is made up dominantly of a barren grey white marble. Barren interbeds of brown biotite hornfels occur and there is some minor green pyroxene hornfels particularly between 107.9 - 108.3m.

A moderately mineralized garnet pyroxene hornfels occur between 109.4 - 110.5m.

Bedding: 111m 60° L.A.O.C.
112m 65° "

112.90 - 131.0m BANDED GARNET HORNFELS

A moderately mineralized andradite garnet hornfels with barren interbeds of green ph, brown bh and very occasionally barren ch.

The lower contact of this unit with the mineralised banded footwall beds is gradational.

There are some significant areas of core loss in this section, notably 117.79 - 120.83 44% lost.
- 121.61 68% lost.

In these intervals the core is very rounded and suggests that it may have been ground away in the core barrel.

Bedding: 116m 55° L.A.O.C.
125m 55° "
130m 55° "

This unit contains increasing amounts of grossular garnet below 125m.

131.0 - 134.0m MINERALIZED BANDED FOOTWALL BEDS

This unit contains increasing amounts of barren bh, ph and grossular garnet.

Bedding: 133m 50° L.A.O.C.

134.0 - 152.40m UNMINERALIZED BANDED FOOTWALL BEDS

This unit is dominantly a thinly bedded biotite pyroxene hornfels but contains minor interbeds of barren white ch and green ph.

Bedding: 136m 50° L.A.O.C.
143m 40° "
144m 50° "

There is no mineralization below 134.0m.

There is some significant core loss in this section notably 137.28 - 138.04 96% lost.
139.26 73% "
139.95 64% "

Core throughout these intervals is very broken with most breaks along bedding planes. There is moderate chlorite on bedding surfaces.

Aplite: 149.2 - 150.05m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/

152.4 - 158.21m

LOWER METAVOLCANICS

Dark grey medium grained mica flecked lower metavolcanics.
Quality of core in this interval is excellent.

158.21m E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 200/10

PLANNING

Proposer: M.J. Danielson. Depth: 65m.
Location: 220 200E (P18) drill cuddy, Wedge area, -75m R.L.

Purpose of hole: Test grade of Upper C lens and width of marble marker.

Co-ordinates: 220 200 E 564 185 N
Inclination: -67° Magnetic
Bearing: 180° Grid Target depth:
Target: E N
Approved by: M.C. Rogers. Date: 20/2/75

SURVEY

Survey Co-ords: E N
Survey bearing: Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 220 200.5 E 564 185.5 N
R.L. of collar: -74.9 Inclination of hole:
Picked up by : M.G.M. Date: 25/2/75

SUMMARY

Logged by : M.J. Danielson.
Results: Upper C lens: 32 - 46m, 14m @ 2.11% WO₃
Lower C lens: 53 - 65m, 12m @ 0.64% WO₃

DRILLING

Driller/Contractor: A.D.D.
Date commenced: 21.2.75 Date terminated: 25.2.75

Casing:	Size :	5X		
	Depth :	1.52		
Core:	Size :	NQ	BQ	
	Depth :	0.50	65.84	

Wedge Runoff:

Wedge placed: NIL Depth:
Proposed by : Approved by:
Reason:

Extension: NIL

Reason for termination: Hole entered area already tested by D 200/5A. Final depth: 65.84m.

Condition of hole on completion:
Casing : 1.52m ~~5X~~ remains.

Cemented : Yes.

Bore hole survey: Yes - surveyed to 64.01m

Water: No.

Comments on drilling conditions:

GEOPEKO LIMITED - Dolphin Mine

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/10

Survey method : Multishot camera.

Depth surveyed to : 64.01m.

Final depth : 65.84m.

Date surveyed : 25/2/75

Casing depth : 1.52m

Surveyed by : V.Powell.

Checked by : G. Buckland.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	E
15.24	184°30'	175°30'	25°	-65°	13.87	6.28	0.62
30.48	188°30'	179°30'	26°	-64°	27.63	12.86	0.74
45.72	188°30'	179°30'	26°15'	-63°45'	41.33	19.54	0.80
64.01	188°	179°	26°	-64°	57.74	27.60	1.09

REMARKS

GEOPEKC LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/10

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 13.18	bh	4		mostly clay, minor chlorite @ 2.25 carbonate @ 9.0 & 10.8	4m:30° 6m:30° 12m:40°	99	77	
13.18 - 20.73	bh	5		clay,		96	67	bad ground: 16.7 - 17.0.
20.73 - 26.82	bh	4		mostly clay, minor pyrite @ 25.70.		100	87	
26.82 - 47.55	bh/ pgh/ gh	2		clay		100	90	No bad ground at all.
47.55 - 50.60	gh	5		minor carbonate.		87	33	Breccia: 49.0 - 50.60 (core loss probably occurs in this interval Fault.
50.60 - cont.	ch/	4		clay,	58m:45°	100	70	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}}$ %
Drilled
- Core size. 0 - 0.50 NQ
0.50 - 65.84 BQ

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/10

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
cont. 50.60 - 65.84	gh/bh/ ch/ banded gh	4		minor chlorite & pyrite between 58 - 59m.	58m: 45° 63m: 65°	100	70	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}} \%$
DRILLED
- Core size.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/10

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 3.96	3.96	4.00	101
7.01	3.05	3.00	98
10.05	3.04	2.92	96
13.18	3.13	3.14	100
16.31	3.13	3.14	100
18.29	1.98	1.70	86
20.73	2.44	2.45	100
23.77	3.04	3.10	102
26.82	3.05	3.12	102
29.56	2.74	2.74	100
32.61	3.05	3.10	102
35.66	3.05	3.07	101
38.71	3.05	3.03	99
41.76	3.05	3.07	101
44.81	3.05	3.05	100
47.55	2.74	2.72	99
50.60	3.05	2.65	87
53.64	3.04	3.10	102
56.69	3.05	3.10	102
59.74	3.05	3.05	100
62.79	3.05	3.07	101
65.84	3.05	2.97	97

GEOPEKO LIMITED - Dolphin Mine

ASSAY DATA

D.D.H. No.D 200/10

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D3136	30	31	1.0	1.0	0.04	0.01			
7	31	32	"	"	0.03	0.02			
8	32	33	"	"	0.61	0.04			Upper C lens: 32 - 46m, 14m @ 2.11% WO ₃ 0.13% Mo
9	33	34	"	"	1.21	0.08			
40	34	35	"	"	3.40	0.16			
1	35	36	"	"	1.46	0.16	x		
2	36	37	"	"	4.40	0.19			
3	37	38	"	"	0.45	0.05			
4	38	39	"	"	0.60	0.05			
5	39	40	"	"	7.90	0.31			
6	40	41	"	"	4.10	0.22	x		
7	41	42	"	"	1.12	0.08			
8	42	43	"	"	1.44	0.13			
9	43	44	"	"	0.90	0.07			
50	44	45	"	"	1.32	0.16			
1	45	46	"	"	0.56	0.06	x		
2	46	47	"	"	0.10	0.04			
3	47	48	"	"	0.09	0.04			
4	48	49	"	"	0.07	0.02			
5	49	50	"	0.80	0.02	0.02			
6	50	51	"	0.80	0.02	0.02			
7	51	52	"	1.0	0.01	0.01			
8	52	53	"	"	0.20	0.06	x		
9	53	54	"	"	1.26	0.16	x		
60	54	55	"	"	1.00	0.09			
1	55	56	"	"	1.80	0.22			
2	56	57	"	"	0.18	0.04			
3	57	58	"	"	0.33	0.05			
4	58	59	"	"	0.04	0.02			
5	59	60	"	"	0.04	0.02			
6	60	61	"	"	0.45	0.05			
7	61	62	"	"	1.07	0.10			
8	62	63	"	"	0.44	0.06			
9	63	64	"	"	0.66	0.07			
D3170	64	65	"	"	0.36	0.04			

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/10

LAB.		K.I.S.		LAB.		K.I.S.		LAB.		A.M.D.L.		LAB.		A.C.S.L.	
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	
D 3141	1.46	0.16	D 3590	1.42	0.09	D 3591	1.33	0.096	D 3592	1.57	0.099				
3146	4.10	0.22	3593	3.73	0.13	3594	3.50	0.128	3595	4.08	0.13				
3151	0.56	0.06	3596	0.49	0.01	3597	0.50	0.036	3598	0.62	0.032				
3158	0.20	0.06	3599	0.14	0.01	3600	0.22	0.043	3601	0.26	0.046				
3159	1.26	0.16	3602	1.19	0.10	3603	1.08	0.119	3604	1.32	0.11				

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/10

0m - 0.5m NQ
0.5m - 65.84 BQ

00 - 28.54

HANGINGWALL BIOTITE HORNFELS

Fine grained barren grey brown biotite hornfels. Moderately pyroxene rich to 5m with a grossular garnet skarn developed between 4.0 - 4.75m.

No scheelite mineralization in the skarn.

Bedding is significant in uppermost 12m.

4m	30°	L.A.O.C.
6m	30°	"
12m	40°	"

The uppermost 10m of this interval is similar to the margins of the B lens sequence.

Below 15m this unit is more typical hangingwall biotite hornfels. It is generally featureless with no mineralization. Quality of core is generally good with the only significant broken ground 16.7 - 17.0 m.

28.54 - 39.20

PYROXENE GARNET HORNFELS

From 28.54 - 32.30 the unit is typical pale green pgh with white carbonate fragments up to 2cm diameter rimmed by honey coloured grossular garnet. No mineralization.

Below 32.3 and to the base of this unit the rock is a pyroxene rich skarn with occasional patches of white unreplaced carbonate up to 2cms diameter. This section is variably mineralized usually as small 1cm blebs of coarse scheelite.

39.20 - 49.0

GARNET SKARN

Between 39.2 - 45 the skarn is a coarse grained very highly mineralized andradite skarn.

45 - 49m the skarn is finer grained, more pyroxene rich and carries only low grade mineralization.

There are minor interbeds of barren grey biotite hornfels between 44.80 - 45.05

45.64 - 45.75

47.34 - 47.50

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D200/10

- 49.0 - 50.60 **FAULT (?)**
There are 0.40m core lost in this interval.
The overlying skarn shows some leaching below 47 metres.
The fault zone is a clay recemented breccia to approximately 49.5m and is then a rubbly grey biotite hornfels.
- 50.60 - 52.75 **MARBLE**
Barren clean white marble. No apparent bedding.
This marble is not at all similar in appearance to the 'dirty' grey marble of the B lens sequence.
- 52.75 - 58.0 **GARNET HORNFELS**
Moderately mineralized fine grained andradite garnet skarn. The unit is weakly banded and maybe Lower C lens.
- 58.0 - 59.2 **BIOTITE HORNFELS**
Barren grey green biotite and minor pyroxene hornfels.
Bedding 58m 45° L.A.O.C.
- 59.2 - 60.60 **MARBLE**
Barren fine grained whitish marble. No apparent bedding. Similar in appearance to the marble described above between 50.6 - 52.75m.
- 60.60 - 65.84 **BANDED GARNET HORNFELS**
Banded andradite garnet skarn of the Lower C lens orebody. Mineralization is finely disseminated throughout the skarn.
The barren silicate hornfels interbeds are more frequent below 63m.
65.2 - 65.84 is mostly a barren white marble.
Bedding: 63m 65° L.A.O.C.
- E.O.H. 65.84m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 200/9

PLANNING

Proposer: M.J. Danielson. Depth: 65m.
Location: 220 200 E (P18) drill cuddy Wedge Area, - 75m R.L.

Purpose of hole: To examine the continuity of Lower C lens mineralization between D200/6 and D200/8

Co-ordinates: 220 200 E 564 185 N
Inclination: -87° Magnetic
Bearing: 180° Grid Target depth:
Target: E N
Approved by: M.C. Rogers. Date:

SURVEY

Survey Co-ords: E N
Survey bearing: Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 220 200.5 E 564 185.9 N
R.L. of collar: -74.7 Inclination of hole:
Picked up by : M.G.M. Date: 25/2/75

SUMMARY

Logged by : M.J. Danielson.
Results: Glens: 32 - 71m, 39m @ 0.74% WO₃

DRILLING

Driller/Contractor: A.D.D.
Date commenced: 18/2/75 Date terminated: 21/2/75

Casing:	Size :	NX		
	Depth :	1.52		
Core:	Size :	NQ	BQ	
	Depth :	0.25	71.37	

Wedge Runoff:
Wedge placed: NIL Depth:
Proposed by : Approved by:
Reason:

Extension: NIL
Reason for termination: Hole intersected D200/6 Final depth: 71.37m.
Condition of hole on completion:
Casing : 1.52m NX remains.
Cemented : Yes.

Bore hole survey: Yes - surveyed to 70.10m.
Water: Normal water return throughout.
Comments on drilling conditions:

GEOPEKO LIMITED - Dolphin Mine

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 200/9

Survey method : Multishot camera.

Final depth : 71.37m.

Casing depth : 1.52m.

Depth surveyed to : 70.10m.

Date surveyed : 21/2/75

Surveyed by : V.J. Powell

Checked by : G.L. Buckland.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		E S	W
15.24	204°	193°	5°	-85°	15.19	1.27	0.14
30.48	212°	203	5°45'	-84°15'	30.36	2.66	0.62
45.72	211°15'	202°15'	5°52'	-84°08'	45.52	4.09	1.21
60.96	211°	202°	6°15'	-83°45'	60.68	5.57	1.82
70.10	213°30'	204°30'	6°15'	-83°45'	69.77	6.48	2.23

REMARKS

GEOPEK LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/9

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 10.97	bh	8		clay, minor pyrite, carbonate @ 3.10 5.20	3.5m:50° 5m : 40° 8m :40°	98	69	7.50 - 7.65: core is riddled with carbonate veinlets.
10.97 - 14.33	bh	18		minor chlorite @ 13.23.		106	27	bad ground: 10.97 - 11.74, 12.70 - 13.78.
14.33 - 24.60	bh	4		minor pyrite @ 18.10, chlorite @ 22.80 carbonate @ 24.18.		99	89	Good core quality. 22.60 - 22.64 a zone of broken core with carb- onate and chlori- e infilling. (major joint).
24.60 - 41.68	pgh/ gh	4		minor pyrite @ 36.20.		101	91	Excellent core quality.

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}} \%$
- Core size. 0 - 0.25 NQ
0.25 - 71.37 BQ

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/9

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
41.68 - 53.94	bh/ banded gh	2		41.68 - 41.90: chlorite and pyrite; otherwise clay.	48m:60° 50m:65°	98	88	
53.94 - 59.03	banded gh	3		clay	55m:55° 59m:35°	100	62	
59.03 - 71.37	banded gh	4		clay	64m:75° 65m:60° 68m:50° 70m:40° 71m:40°	100	84	bad ground: 60.50 - 61.00 63.52 - 63.77 68.48 - 68.55

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}}$ %
Drilled
- Core size.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 3.96	3.96	3.80	96
7.01	3.05	3.06	100
8.23	1.22	1.18	97
10.97	2.74	2.73	100
11.58	0.61	0.44	72
12.19	0.61	0.74	121
12.95	0.76	0.90	118
13.64	0.69	0.84	122
14.33	0.69	0.76	110
17.37	3.04	3.04	100
20.42	3.05	3.00	98
23.16	2.74	2.72	99
26.21	3.05	3.24	106
29.26	3.05	3.08	101
32.39	3.13	3.14	100
35.43	3.04	3.05	100
38.56	3.13	3.07	98
41.68	3.12	3.02	97
44.81	3.13	3.07	98
47.70	2.89	2.84	98
50.83	3.13	3.03	96
53.94	3.11	3.08	99
55.91	1.97	2.08	106
59.03	3.12	3.15	101
62.15	3.12	3.15	101
65.28	3.13	3.15	100
68.33	3.05	3.03	99
71.37	3.04	3.04	100
E.O.H.			

GEOPEKO LIMITED - Dolphin Mine

ASSAY DATA

D.D.H. No. D 200/9

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D3057	27	28	1.0	1.0	0.06	0.01			
8	28	29	"	"	0.70	0.08			
9	29	30	"	"	0.05	0.02			
60	30	31	"	"	0.49	0.10			
1	31	32	"	"	0.15	0.03			
2	32	33	"	"	0.54	0.05			
3	33	34	"	"	1.38	0.08			
4	34	35	"	"	1.40	0.08			
5	35	36	"	"	1.96	0.12			
6	36	37	"	"	1.94	0.15			C lens:
7	37	38	"	"	1.70	0.10			32 - 71m,
8	38	39	"	"	1.66	0.12			39m @
9	39	40	"	"	1.33	0.11			0.74% WO ₃
70	40	41	"	"	1.48	0.32			0.09% Mo
1	41	42	"	"	0.48	0.09			
2	42	43	"	"	0.24	0.05			
3	43	44	"	"	0.57	0.09			
4	44	45	"	"	1.08	0.08			
5	45	46	"	"	0.07	0.13			
6	46	47	"	"	0.16	0.09			
7	47	48	"	"	0.76	0.08			
8	48	49	"	"	0.88	0.09			
9	49	50	"	"	1.17	0.10			
80	50	51	"	"	0.64	0.08			
1	51	52	"	"	0.60	0.07			
2	52	53	"	"	0.10	0.04			
3	53	54	"	"	0.11	0.09			
4	54	55	"	"	0.44	0.09			
5	55	56	"	"	0.77	0.11			
6	56	57	"	"	0.43	0.16			
7	57	58	"	"	0.01	0.01			
8	58	59	"	"	0.24	0.04			
9	59	60	"	"	0.58	0.08			
90	60	61	"	"	0.01	0.01			
1	61	62	"	"	0.25	0.04			
2	62	63	"	"	0.80	0.08			
3	63	64	"	"	0.25	0.05			
4	64	65	"	"	1.37	0.12			
5	65	66	"	"	0.84	0.13			
6	66	67	"	"	0.72	0.07			
7	67	68	"	"	0.54	0.05			
8	68	69	"	"	0.50	0.08			

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/9

LAB. K.I.S.			LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.		
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo
D 3057	0.06	0.01	D 3572	0.06	0.01	D 3573	0.09	0.005	D 3574	0.11	0.004
3069	1.33	0.11	3575	1.28	0.07	3576	1.21	0.073	3577	1.39	0.067
3070	1.48	0.32	3578	1.49	0.21	3579	1.45	0.254	3580	1.64	0.26
3086	0.43	0.16	3581	0.56	0.09	3582	0.49	0.109	3583	0.65	0.11
3092	0.80	0.08	3584	0.84	0.03	3585	0.78	0.047	3586	0.98	0.052
D 3097	0.54	0.05	D 3587	0.59	0.01	D 3588	0.57	0.03	D3589	0.64	0.029

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D200/9

00 - 24.70

HANGINGWALL BIOTITE HORNFELS

A grey brown fine grained barren biotite hornfels
3.06 - 3.60 pyroxene rich with minor green pyroxene
and grossular garnet.

Some bedding evident to 11m.

Bedding: 3.5m 50° L.A.O.C.
5.0m 40° "
8.0m 40° "

Down to 10.97m the core is good quality with 98%
recovery and an R.Q.D. = 68%.

Core is moderate to heavily broken 10.97 - 13.64
with R.Q.D. = 28%. There is no brecciation or carbonate
veining and this zone probably does not represent a
fault.

Below 13.64 quality of core is good with no core
loss. No bedding apparent in this section.

24.70 - 34.30

PYROXENE GARNET HORNFELS

Typical pgh. Mostly a pale green in colour with
white carbonate fragments rimmed by brown grossular
garnet. Weak variable mineralization below 28m.

34.3 - 41.43

GARNET HORNFELS

Very high grade finely disseminated scheelite
in a medium grained andradite skarn. No bedding

41.43 - 42.36

BIOTITE HORNFELS

Barren brown biotite hornfels. Bedding is apparent
but disturbed chlorite and pyrite on fracture surfaces.

42.36 - 71.37

BANDED GARNET HORNFELS

This unit is variably but mostly highly mineralised
with fine disseminated scheelite but is much more pyroxene
rich and shows evidence of bedding. Both these features
distinguish it from the garnet hornfel of the upper C lens.

Bedding: 44.5m 60° L.A.O.C.
48m 55° "
51m 55° "
59m 35° "
65m 60° "
71m 40° L.A.O.C.

E.O.H. 71.37 metres.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 200/8

PLANNING

Proposer: M.J. Danielson. Depth: 95m.

Location: 220 200 E (P.18) drill cuddy wedge area,
-75m R.L.

Purpose of hole: To locate footwall of sequence.

Co-ordinates: 220 200 E 564 185 N
Inclination: -78° Magnetic
Bearing: 360° Grid Target depth:
Target: E N
Approved by: M.C. Rogers. Date: 1/2/75

SURVEY

Survey Co-ords: E N
Survey bearing: Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 220 199.58 E 564 187.46 N
R.L. of collar: -74.66 Inclination of hole:
Picked up by : J. Cook. Date: $-79^{\circ} 07' 43''$
12/2/75

SUMMARY

Logged by : M.J. Danielson.
Results: Upper C lens - 26 - 52m, 26m @ 0.99% WO_3
Lower C lens - 64 - 66m, 2m @ 0.40% WO_3

DRILLING

Driller/Contractor: A.D.D.
Date commenced: 5/2/75 Date terminated: 12/2/75

Casing: Size :	NX		
Depth :	1.52		
Core: Size :	NQ	BQ	
Depth :	0.75	94.49	

Wedge Runoff:
Wedge placed: NIL Depth:
Proposed by : Approved by:
Reason:

Extension: NIL
Reason for termination: hole located the lower Final depth: 94.49m,
Condition of hole on completion: ^{metavolcanics.}
Casing : 1.52m NX remains.
Cemented : *YES*

Bore hole survey: Surveyed to 94.49m.
Water: Normal water return throughout
Comments on drilling conditions:

GEOPEKO LIMITED - DOLPHIN MINESUMMARY BORE HOLE SURVEY DATAD.D.H. No. D 200/8

Survey method : Multishot camera.

Final depth : 94.49m.

Casing depth : 1.52m.

Depth surveyed to : 94.49m.

Date surveyed : 11/2/75

Surveyed by : V.J. Powell.

Checked by : G.L. Buckland.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
15.24	358°30'	349°30'	12°30'	-77°30'	14.87	3.15	0.41
30.48	352°30'	343°30'	11°	-79°	29.81	6.19	1.19
45.72	351°	342°	11°	-79°	44.77	8.96	2.10
60.96	348°30'	339°30'	10°45'	-79°15'	59.75	11.65	3.01
76.20	343°	334°	11°	-79°	74.72	14.28	4.22
91.44	332°30'	323°30'	11°30'	-78°30'	89.67	16.75	5.86
94.49	329°30'	320°30'	11°45'	-78°15'	92.66	17.22	6.25

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 200/8

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 10.46	bph/ bh	9		clay,		97	52	bad ground: 9.10 - 10.46 (with minor chlorite on joint surfaces).
10.46 - 25.37	bh/ pgh	4		mostly clay, minor carbonate.		100	85	Breccia: 20.63 - 20.68.
25.37 - 34.52	pgh	2		clay		100	96	
34.52 - 43.81	gh	3		clay		100	88	
43.81 - 56.31	Banded gh/ Banded footwall beds.	5		clay	43.5m: 42° 46m:48° 49m:30° 53m:50° 55m:50°	100	77	

FURTHER DATA & REMARKS (Compression Tests)

- Detailed % core recoveries within each depth interval is shown in the core ~~xx~~ recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core } > 10\text{cm}}{\text{length recovered}}$ %
- Core size. 0 - 0.75 NQ
0.75 - 94.49BQ
Drilled.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 200/8

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
56.31 - 62.18	Mottled hornfels	6		clay, minor chlorite: 60.80 - 61.20.		100	74	bad ground: 60.80 - 61.20, 61.90 - 62.10.
62.18 - 65.30	Banded bh/ bfb.	9		clay	62.5m: 55°	100	42	
65.30 - 74.68	bfb/ lower metavol- canics.	6		clay, minor carbonate.	66m:65° 68m:60° 71m:55° 73m:50°	100	78	
74.68 - 82.60	lower metavol- canics. /bh	4		clay, minor chlorite: 79.30 - 79.85.		100	71	
82.60 - 88.54	bh	7		minor chlorite on all joints below 84.85m. otherwise mostly clay.	88m:45°	100	78	85.42 - 85.90: core is brecciated & recemented with clay & minor carb- onate.

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D200/8

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
88.54 - 94.49 E.O.H.	bh	+20		minor chlorite - some clay.	94m:55°	100	22	

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.96	3.96	3.70	93
4.95	0.99	0.96	97
6.30	1.35	1.20	89
8.03	1.73	1.72	100
9.55	1.52	1.57	103
10.46	.91	1.00	110
13.59	3.13	3.16	101
16.71	3.12	3.15	101
17.32	.61	.61	100
20.44	3.12	3.15	101
22.25	1.81	1.75	97
25.37	3.12	3.08	99
28.42	3.05	3.09	101
31.47	3.05	3.00	98
34.52	3.05	3.10	102
37.64	3.12	3.20	103
40.69	3.05	3.05	100
43.81	3.12	3.14	101
44.94	3.13	3.13	100
50.03	3.09	3.20	104
53.19	3.16	3.14	99
56.31	3.12	3.09	99
59.44	3.13	3.06	98
62.18	2.74	2.80	102
65.30	3.12	3.17	102
68.43	3.13	3.12	100
71.55	3.12	3.20	102
74.68	3.13	3.10	99
77.72	3.04	3.02	99
79.85	2.13	1.75	92
82.60	2.75	3.05	111
85.42	2.82	2.90	103
88.54	3.12	3.10	99
88.95	.41	.38	93
91.44	2.49	2.60	104
92.66	1.22	1.30	107
94.49	1.83	1.83	100

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D 200/8

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D2982	24	25	1.0	1.0	0.03	0.03			
3	25	26	"	"	0.03	0.03	x		
4	26	27	"	"	0.37	0.04			
5	27	28	"	"	1.45	0.16			
6	28	29	"	"	0.23	0.04	x		
7	29	30	"	"	1.78	0.13			
8	30	31	"	0.95	0.03	0.02			
9	31	32	"	1.0	0.16	0.04			
90	32	33	"	"	0.39	0.06			
1	33	34	"	1.07	1.94	0.18			
2	34	35	"	1.0	0.58	0.07			
3	35	36	"	"	0.92	0.08			
4	36	37	"	"	2.57	0.22			
5	37	38	"	"	1.62	0.11			
6	38	39	"	"	1.32	0.09			
7	39	40	"	"	1.50	0.11			
8	40	41	"	"	0.80	0.08	x		
D2999	41	42	"	"	0.91	0.09			
D3001	42	43	"	"	1.06	0.09	x		
2	43	44	"	"	0.90	0.10			
3	44	45	"	"	0.96	0.11			
4	45	46	"	"	0.74	0.08			
5	46	47	"	"	1.53	0.09			
6	47	48	"	"	1.08	0.10			
7	48	49	"	1.07	0.74	0.08			
8	49	50	"	1.0	1.04	0.07			
9	50	51	"	"	0.26	0.05			
10	51	52	"	"	0.74	0.08			
1	52	53	"	"	0.10	0.03			
2	53	54	"	"	0.20	0.04			
3	54	55	"	0.96	0.04	0.03	x		
D3014	55	56	"	1.0	0.37	0.04			
D3015	63	64	"	"	0.02	0.02			
6	64	65	"	"	0.36	0.04			
7	65	66	"	"	0.43	0.05			
8	66	67	"	"	0.03	0.02			
9	67	68	"	"	0.03	0.02			
20	68	69	"	"	0.01	0.02			
1	69	70	"	1.06	0.10	0.03			

Upper C lens:
26 - 52m,
26m @
0.99% WO₃
0.09% Mo

Lower C lens
64 - 66m 2m @
0.40% WO₃
0.05% Mo

SPECIFIC GRAVITY

Determined by:

Depth (m) :
Rock Type :
S.G. :

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No.D 200/8

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D3022	70	71	1.0	1.0	0.29	0.04			
3	71	72	"	"	0.12	0.05			
D3024	72	73	1.0	1.0	0.19	0.04			

SPECIFIC GRAVITY

Determined by:

Depth (m) :
Rock Type :
S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/8

LAB.		K.I.S.		LAB.		K.I.S.		LAB. A.M.D.L.			LAB. A.C.S.L.	
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	
D 2983	0.03	0.03	D 3557	0.02	0.01	D 3558	0.01	0.001	D 3559	0.010	0.002	
2986	0.23	0.04	3560	0.19	0.01	3561	0.22	0.011	3562	0.29	0.012	
2998	0.80	0.08	3563	0.98	0.02	3564	0.92	0.044	3565	1.11	0.049	
3001	1.06	0.09	3566	1.05	0.03	3567	0.91	0.045	3568	1.14	0.05	
D 3013	0.04	0.03	D 3569	0.02	0.01	D 3570	0.03	0.002	D 3571	0.025	0.004	

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/8

0 - 3.60

BIOTITE PYROXENE HORNFELS

A mottled mixture of pale green pyroxene hornfels and purplish brown biotite hornfels. Almost totally unmineralized except for a couple of specks of scheelite at 3.60m. Core is not split.

Bedding: 2m 40° L.A.O.C.

Very minor pale pink grossular garnet developed in this section.

3.6 - 23.55

BIOTITE HORNFELS

Mostly a fine grained barren brown biotite hornfels. Bad ground - 9.10 - 10.46
Ground conditions improve notably below 10.46.

R.Q.D. 10.46 - 25.37 = 85%.

Bedding: 14m 40° L.A.O.C.

To 14m this unit has a 'flaggy' white carbonate content which is absent below 14m.

Carbonate cemented breccia 20.63 - 20.68m.

Minor iron sulphides 16.7m.

23.55 - 35.73

PYROXENE GARNET HORNFELS

Uppermost 2m is biotite rich but otherwise this unit is typical pgh. White carbonate fragments average diameter 2cm rimmed by brown grossular garnet all in a pale green pyroxene hornfels ground mass.

The unit is mineralised throughout with sporadic high and low assay sections. The variability of the mineralization is not fully reflected in the 1m assay splits which have an averaging effect.

35.73 - 43.40

GARNET HORNFELS (Upper C Lens)

A medium to coarse grained andradite garnet skarn with high grade scheelite finely disseminated throughout. Below 40m this unit becomes more pyroxene rich and slightly banded and grades into the banded garnet hornfels described below.

Biotite hornfels 43.4 - 43.5m

43.40 - 52.05

BANDED GARNET HORNFELS (Lower C Lens)

A moderate to highly mineralized banded garnet hornfels. The garnet is andradite and the banding is pale green pyroxene.

Bedding: 43.5m 42° L.A.O.C.

46m 38° "

49m 30° "

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/8

52.05 - 56.0

BANDED FOOTWALL BEDS

Typical banded biotite, pyroxene carbonate and grossular garnet. Average thickness of banding 1cm. Very weak disseminated scheelite sub oregrade.

Bedding: 53m 50° L.A.O.C.
55m 50° "

56.0 - 61.0

MOTTLED HORNFELS

This unit is described as a 'mottled hornfels' for want of a better name.

It is a mottled pale whitish green and brown rock with a distinctive hornfels texture. No mineralization and no recognisable bedding.

Its upper contact with the overlying banded footwall beds is gradational and is definitely not faulted.

There is some broken core towards the base of the unit particularly 60.80 - 61.20, although the contact with the underlying banded hornfels still appears gradational.

61.0 - 64.15

BANDED BIOTITE HORNFELS

This unit could be considered gradational between the 'mottled hornfels' above and the banded footwall beds below.

It is a brown fine grained barren hornfels with some recognisable bedding.

Bedding 62.5m 55° L.A.O.C.

64.15 - 73.63

BANDED FOOTWALL BEDS

This unit is partially mineralized particularly between 64.25 - 66.60
69.80 - 72.80

Bedding is mostly thin (< 1cm wide).

Bedding: 66m 65° L.A.O.C.
68m 60° "
71m 55° "
73m 50° "

73.63 - 80.80

LOWER METAVOLCANICS

This unit is typical of the lower metavolcanic sequence to 77.80m. The uppermost 0.5m is spotted white.

Below 77.80m the unit is a variable spotted grey rock, no bedding or mineralization but similar to the lower metavolcanic unit in D 200/6.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/8

80.80 - 94.49 BIOTITE HORNFELS

Mostly a very thinly banded barren brown biotite hornfels with occasional thin interbeds of a grey actinolite.

Bad ground 84.85 - 85.42 with chlorite on fracture surfaces.

85.42 - 85.90 core is brecciated but recemented with clay and minor carbonate.

Below 88.4m the core is badly broken and R.Q.D.

88.54 - 94.49 = 22%

There is minor andradite skarn with weak disseminated scheelite below 94m.

94.49 E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 200/7

PLANNING

Proposer: M.J. Danielson. Depth: 70m.
Location: 220 200 E (P.18) drill cuddy Wedge Area, -75m R.L.

Purpose of hole: Oreblock top of C lens and locate the Northern Boundary Fault.

Co-ordinates: 220 200 E 564 185 N
Inclination: -59° Magnetic
Bearing: 360° Grid Target depth:
Target: E N
Approved by: M.C. Rogers. Date: 1/2/75

SURVEY

Survey Co-ords: E N
Survey bearing: Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 220 199.57 E 564 187.76 N
R.L. of collar: -74.50 Inclination of hole:
Picked up by : J. Cook. Date: -58° 23' 55"
12/2/75

SUMMARY

Logged by : M.J. Danielson.
Results: Upper C lens: 34 - 48m, 14m @ 1.49% WO₃

DRILLING

Driller/Contractor: A.D.D.
Date commenced: 12/2/75 Date terminated: 17/2/75

Casing: Size :	NX		
Depth :	0.52m.		
Core: Size :	NQ	BQ	
Depth :	0.50	56.69	

Wedge Runoff:

Wedge placed: NIL Depth:
Proposed by : Approved by:
Reason:

Extension: NIL

Reason for termination: Hole passed through the Northern Boundary Final depth: 56.69m.

Condition of hole on completion: Fault.
Casing : 1.52m NX remains.

Cemented : *yes*

Bore hole survey: Surveyed to 54.86m.

Water: Normal water return throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - DOLPHIN MINESUMMARY BORE HOLE SURVEY DATAD.D.H. No. D 200/7

Survey method : Multishot camera.

Depth surveyed to : 54.86m.

Final depth : 56.69m.

Date surveyed : 17/2/75

Casing depth : 1.52m.

Surveyed by : V.J. Powell.

Checked by : G.L. Buckland.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
15.24	359°	350°	31°	-59°	13.01	7.84	1.26
30.48	358°	349°	30°30'	-59°30'	26.08	15.53	2.71
45.72	358°30'	349°30'	30°15'	-59°45'	39.21	23.13	4.20
54.86	359°	350°	31°	-59°	47.07	27.73	5.02

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 200/7

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 10.06	bph/ bh	13		some clay, minor carbon- ate & pyrite.	3m:45° 4m:45°	100	49	0 - 0.50: Rubble - collaring in. <u>Fault:</u> 4.60 - 4.88 Broken ground & a carbonate recemented breccia. Bad ground: 4.0 - 4.90, 8.38 - 10.06.
10.06 - 27.83	bh	6		abundant chlorites 16 - 20m. carbonate in fault zones.		100	78	<u>Faults</u> (carbonate recemented breccias) 10.93 - 11.02, 21.01 - 21.07, 25.76 - 25.86. Bad ground: 25.90 - 26.16 <u>Feature:</u> From 16.24 - 17.50 is a prominent joint (direction approximately parallel to L.A.O.C.).

FURTHER DATA & REMARKS (Compression Tests)

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core } > 10\text{cms}}{\text{length recovered}} \%$
- Core size. 0 - 0.50 NQ
0.50 - 56.69 BQ

Drilled

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 200/7

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
27.83 - 50.05	pgh/ banded bh	3		minor chlorite @ 33m, otherwise fresh.	49.5m: 50°	100	97	Excellent quality core.
50.05 - 52.00	Fault zone	+20		Abundant chlorite	50 °	103	0	Totally in competent ground.
52.00 - 56.59	q	+20		pyrite		100	9	Badly broken ground.

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 200/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.13	2.13	2.13	100
4.88	2.75	2.75	100
8.00	3.12	3.10	99
9.22	1.22	1.22	100
10.06	.84	.84	100
13.18	3.12	3.12	100
15.01	1.83	1.81	99
17.45	2.44	2.44	100
20.57	3.12	3.12	100
23.65	3.08	2.96	96
26.69	3.04	3.15	104
29.74	3.05	3.05	100
32.79	3.05	3.05	100
35.79	3.00	3.02	101
38.79	3.00	3.00	100
41.76	2.97	3.00	101
44.65	2.89	2.96	102
47.24	2.59	2.60	100
50.29	3.05	2.86	94
53.34	3.05	3.40	111
55.17	1.83	1.83	100
55.78	.61	.61	100
56.69	.91	.91	100

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D 200/7

SAMPLE No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
D3025	27	28	1.0	1.0	0.02	0.02		
6	28	29	"	"	0.03	0.02		
7	29	30	"	"	1.98	0.13		
8	30	31	"	"	0.34	0.05		
9	31	32	"	"	0.13	0.03	x	
30	32	33	"	"	0.10	0.03		
1	33	34	"	"	0.02	0.02		
2	34	35	"	"	4.15	0.22		Upper C lens: 34 - 48m
3	35	36	"	"	1.56	0.09		
4	36	37	"	"	1.16	0.08		
5	37	38	"	"	6.30	0.32		14m
6	38	39	"	"	1.68	0.11		
7	39	40	"	"	0.80	0.06	x	@
8	40	41	"	"	0.80	0.08		1.49% WO ₃
9	41	42	"	"	2.04	0.19		0.10% Mo.
40	42	43	"	"	0.25	0.05		
1	43	44	"	"	0.48	0.05		
2	44	45	"	"	0.46	0.06	x	
3	45	46	"	"	0.02	0.02		
4	46	47	"	"	0.54	0.06		
5	47	48	"	"	0.62	0.06		
6	48	49	"	"	0.01	0.01	x	
D3047	49	50	1.0	0.82	0.02	0.02		

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/7

LAB. K.I.S.			LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.		
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo
D 3029	0.13	0.03	D 3548	0.11	< 0.01	D 3549	0.08	0.009	D 3550	0.14	0.011
3037	0.80	0.06	3551	0.78	0.01	3552	0.72	0.037	3553	0.93	0.041
3042	0.46	0.06	3554	0.37	< 0.01	3555	0.51	0.035	3556	0.64	0.029

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/7

0 - 3.50

BIOTITE PYROXENE HORNFELS

Mostly a pale green barren pyroxene hornfels with minor carbonate and grossular garnet 2.6 - 3.1m. No mineralization.

Bedding: 3.0m 45° L.A.O.C.

3.50 - 27.83

BIOTITE HORNFELS

Fine grained grey brown barren hornfels. Fault? broken ground and carbonate recemented breccia 4.60 - 4.88m.

Bedding: 4m 45° L.A.O.C.

Broken ground 7.9 - 10.0m.

21.0 - 21.2 carbonate recemented breccia.

25.70m - 26.20 broken ground and carbonate recemented breccia.

Below 26.2m the hornfels has a flecked white appearance.

27.83 - 48.90

PYROXENE GARNET HORNFELS

The uppermost part of this unit - say down to 35m no typical pale green pyroxene hornfels with white carbonate pods rimmed by brown grossular garnet. Very weakly mineralized to 35m.

Below 35m the unit becomes more a pyroxene rich skarn with andradite garnet becoming more prominent.

The unit is variably but more strongly mineralized below 35m.

Coarse scheelite

37.60 - 37.68

37.87 - 37.91

Below 35m there are irregular patches of carbonate which may represent pgh 'pods'. These are particularly prominent 47.4 - 49.0m.

There are two barren hornfels interbeds in this section. 43.37 - 43.51

44.85 - 45.65

48.90 - 50.05

BANDED BIOTITE HORNFELS

Thinly banded barren biotite and minor pyroxene hornfels. Bedding is totally disrupted below 49.7m.

Bedding: 49.5m 50° L.A.O.C.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 200/7

50.05 - 52.0

FAULT ZONE

A sheared incompetent biotite hornfels. High chlorite content.

52.0 - 56.69

QUARTZITE

Pale grey fine grained barren quartzite. Core is badly broken and R.Q.D. = 9%.

56.69m E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No D 200/6

PLANNING

Proposer: M.J. Danielson. Depth: 110
Location: P.15. drill cuddy.

Purpose of hole: Oreblocking North of Wedge Fault.

Co-ordinates: 220200 E 564115 N
Inclination: -49° Magnetic
Bearing: 360° Grid Target depth:
Target: E N
Approved by: M.C. Rogers. Date: 15/10/74

SURVEY

Survey Co-ords: E N
Survey bearing: Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 220 200/5 E 564 121.6 N
R.L. of collar: -76.6 Inclination of hole:
Picked up by : M.G.M. Date: 29 Nov.74.

SUMMARY

Logged by : M.J. Danielson
Results: pgh + 35 - 41m, 6m @ 1.39% WO₃
Upper C lens + 44 - 55m, 11m @ 2.36% WO₃
Lower C lens + 66 - 98m, 32m @ 1.10% WO₃

DRILLING

Driller/Contractor: A.D.D.
Date commenced: 30/10/74 Date terminated: 10/12/74 -

Casing: Size :	NX		
Depth :	1.52m		
Core: Size :	NQ	BQ	
Depth :	1.52	153.31	

Wedge Runoff:
Wedge placed: NIL Depth:
Proposed by : Approved by:
Reason:

Extension: NIL
Reason for termination: Hole passed into Final depth: 153.31m
quartzites north of Northern Boundary Fault.
Condition of hole on completion:
Casing : 1.52m NX remains.
Cemented : YES

Bore hole survey: Surveyed to 152.40m.
Water: Water return obscured by pool of water in cuddy floor -
assume normal.
Comments on drilling conditions:

GEOPEKO LIMITED - DOLPHIN MINESUMMARY BORE HOLE SURVEY DATAD.D.H. NO. D 200/6

Survey method : Multishot camera

Depth surveyed to : 152.40m.

Final depth : 153.31m.

Date surveyed : 10/12/74

Casing depth : 1.52m.

Surveyed by : G.L. Buckland.

Checked by : G.L. Buckland.

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
15.24	360°	351°	41°15'	-48°45'	11.36	10.03	1.26
30.48	358°	349°30'	40°15'	-49°45'	22.91	19.80	3.08
45.72	358°	349°	40°15'	-49°45'	34.51	29.51	4.93
60.96	358°	349°	40°	-50°	46.19	39.13	6.80
76.20	358°	349°	39°45'	-50°15'	57.88	48.72	8.66
91.44	358°	349°	39°45'	-50°15'	69.56	58.31	10.38
106.68	357°30'	348°30'	39°45'	-50°15'	81.28	67.86	12.28
121.92	355°	346°	39°	-51°	93.12	77.19	14.51
137.16	354°30'	345°30'	39°15'	-50°45'	104.96	86.50	16.88
152.40	353°30'	344°30'	39°45'	-50°15'	116.70	95.87	19.41

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D200/6

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery.	R.Q.D.	Remarks (weathering)
0.0 - 10.60	gph/ hangingwall bh	16	clay, minor chlorite in last 2m. e.g. @ 9.75		87	25	0 - 6m, core is strongly leached & has little structural strength. (can be broken by hand). bad ground: 6.0 - 6.25 8.51 - 10.60
10.60 - 26.00	hangingwall bh	7	carbonate	11m:30° 15m:20° 17m:30°	101	81	At 25.10 and 25.30 core is brecciated & carbon- ate recemented. Faults? Bad ground: 18.37 - 18.50 (chlorite on fracture surfaces)
26.00 - 43.50	pgh	8	minor carbonate chlorite: 39.83 - 43.10.	101	101	77	32.50 - 32.55: brecciated core recemented in clay matrix. 37 - 40.0: core is weakly leached. 41.07 - 41.25: bad ground. 42.48 - 43.10: core has little structural strength (is friable, can be had broken).

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core } \geq 10 \text{ cms}}{\text{Length recovered}} \%$
Drilled.
- Core size.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D200/6

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery.	R.Q.D.	Remarks (weathering)
43.50 - 59.03	gh/ marble marker.	8	carbonate is dominant.		98	80	Core weakly leached: 47.10 - 48.80. 50.0 - 51.20 51.71 - 52.00 Broken core: 59.68 - 60.10
59.03 - 64.42	CORE ABSENT						
64.42 - 65.82	Marble marker.	6	carbonate		98	93	64.90 - 65.00: Core is brecciated, weakly leached and partly carbonate recemented. Fault? (25° to L.A.O.C.)
65.82 - 91.93	Lower C lens.	9	molybdenite @ 73.80 74.46 71.40. otherwise carbonate e.g. @ 81.00.	79m:65° 84m:50° 89m:55°	97	74	bad ground: 71.96 - 72.18 core weakly leached: 69.30 - 70.20. Core brecciated @ 91.90
91.93 - 100.05	Mineralized bfb.	8	minor carbonate, some pyrite.	94m:30° 96m:40° 99m:50°	95	78	Rubble: 92.73 - 92.95

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core } \geq 10 \text{ cms}}{\text{Length recovered}} \%$
- Core size. 0 - 0.50 NQ
0.50 - 153.31 BQ

Drilled.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/6

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery.	R.Q.D.	Remarks (weathering)
100.05 - 113.30	Banded bph/ lower metavolcanics.	14	Good chlorite: 109.32 - 113.30. minor carbonate.	102m:40° 106m:55°	93	44	Bad ground: 109.52 - 110.30 111.60 - 111.75 Core is broken along bedding for first 3.5m.
113.30 - 131.37	Banded bah	16	chlorite	115m:60° 118m:60° 121m:45° 128m:45°	102	41	Bad ground: 113.30 - 113.55 121.00 - 121.70 124.40 - 124.66 125.29 - 127.15 129.08 - 129.18 (core is mainly broken along bedding). At 130.70 core is brecciated.
131.37 - 149.80	banded bah	13	chlorite	137m:30° 144m:40°	99	46	Bad ground: 140.38 - 141.25 (core has no structural strength and joints are chlorite filled).
149.80 - 153.31	q	+20	chlorite, clay		99	17	poor quality core. Northern Boundary fault at 149.90m.
E.O.H.							

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core } \geq 10 \text{ cms}}{\text{Length recovered}} \%$
- Core size.
 Drilled.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No.D200/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.96	3.96	3.30	83
6.10	2.14	2.00	93
8.74	2.64	2.35	89
9.65	0.91	0.70	77
10.87	1.22	1.23	100
13.00	2.13	2.18	102
16.05	3.05	3.08	101
18.50	2.45	2.60	106
21.54	3.04	3.07	101
24.59	3.05	3.02	99
27.63	3.04	3.18	105
30.68	3.05	3.05	100
33.73	3.05	3.12	102
36.78	3.05	3.10	102
39.83	3.05	3.02	99
41.96	2.13	2.11	99
45.01	3.05	3.07	101
46.23	1.22	1.23	101
48.66	2.43	2.30	95
51.71	3.05	3.05	100
53.54	1.83	1.85	101
55.98	2.44	2.46	101
59.03	3.05	2.80	92
CORE MISSING 63.78 - 66.65 =		2.87 Recovered. - (see Eng. log.)	
66.65 - 69.70	3.05	3.10	102
72.13	2.43	2.16	89
75.29	3.16	3.00	95
78.33	3.04	3.07	101
81.46	3.13	3.06	98
84.50	3.04	2.96	97
85.04	0.54	0.56	104
88.09	3.05	2.93	96
91.13	3.04	2.98	98
93.80	2.67	2.31	87
96.85	3.05	3.05	100
99.90	3.05	2.88	94

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D200/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
66.65 - 101.73	1.83	1.02	56
103.94	2.21	2.07	94
106.38	2.44	2.31	95
107.29	0.91	0.91	100
109.42	2.13	2.20	103
112.47	3.05	3.12	102
115.52	3.05	3.05	100
118.57	3.05	3.10	102
121.61	3.04	2.95	97
124.66	3.05	3.00	98
125.88	1.22	1.42	116
127.10	1.22	1.36	112
127.86	0.76	0.78	103
129.08	1.22	0.96	79
131.37	2.29	2.70	118
134.42	3.05	2.96	97
137.46	3.04	2.75	90
140.51	3.05	3.33	109
143.56	3.05	3.03	99
146.61	3.05	3.05	100
149.65	3.04	3.04	100
151.49	1.84	1.72	93
153.01	1.52	1.58	104
153.31	0.30	0.34	113
E.O.H.			

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D 200/6

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D2880	32	33	1.0	1.0	0.02	<0.01			
1	33	34	"	"	0.29	0.01			
2	34	35	"	"	0.20	0.01			
3	35	36	"	"	0.49	0.01			
4	36	37	"	"	3.74	0.14			
5	37	38	"	"	0.34	0.01			pgh ±
6	38	39	"	"	0.47	0.02			35 - 41m,
7	39	40	"	"	3.07	0.11			6m @
8	40	41	"	"	0.25	0.04	x		1.39% WO ₃
9	41	42	"	"	0.18	0.13			0.06% MO ₃
90	42	43	"	"	0.01	0.01			
1	43	44	"	"	0.21	0.01			
2	44	45	"	"	0.39	0.02	x		
3	45	46	"	"	8.20	0.30			Upper C
4	46	47	"	"	2.74	0.12			lens -
5	47	48	"	"	6.60	0.32			44 - 55m,
6	48	49	"	"	2.05	0.09	x		11m, @
7	49	50	"	"	1.53	0.09			2.36% WO ₃
D2898	50	51	"	"	0.92	0.06			0.12% Mo ₃
D2960	51	52	"	"	0.61	0.04			
1	52	53	"	"	0.84	0.09			
2	53	54	"	"	1.16	0.11			
3	54	55	"	"	0.87	0.05			
D2964	55	56	"	"	0.22	0.01			
D2899	65	66	1.0	1.0	0.23	0.10			
900	66	67	"	"	0.86	0.22			
1	67	68	"	"	0.98	0.12	x		
2	68	69	"	"	0.82	0.09			
3	69	70	"	"	1.35	0.19			
4	70	71	"	"	0.82	0.08			
5	71	72	"	0.70	1.26	0.12			
6	72	73	"	1.0	4.35	1.16			
7	73	74	"	"	1.80	0.25			

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. NoD 200/6

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D2908	74	75	1.0	1.0	1.70	0.13			Lower C lens: 66 - 98m, 32m @ 1.10% WO ₃ 0.15% Mo
9	75	76	"	"	1.04	0.11			
7 10	76	77	"	"	0.36	0.06			
1	77	78	"	"	0.98	0.18			
2	78	79	"	"	1.85	0.17			
3	79	80	"	"	0.60	0.06			
4	80	81	"	"	1.56	0.16			
5	81	82	"	"	2.15	0.18			
6	82	83	"	"	1.10	0.18			
7	83	84	"	"	0.70	0.08			
8	84	85	"	"	0.82	0.08			
9	85	86	"	"	1.30	0.09			
20	86	87	"	"	0.46	0.08			
1	87	88	"	"	1.22	0.19			
2	88	89	"	"	1.02	0.15			
3	89	90	"	"	0.80	0.08			
4	90	91	"	"	1.00	0.09			
5	91	92	"	"	1.08	0.09			
6	92	93	"	0.80	0.40	0.05			
7	93	94	"	0.90	0.23	0.04			
8	94	95	"	1.0	0.28	0.05			
9	95	96	"	"	0.60	0.07			
30	96	97	"	"	0.87	0.08			
1	97	98	"	"	0.82	0.07			
2	98	99	"	"	0.14	0.03			
D2933	99	100	1.0	1.0	0.05	0.02			

SPECIFIC GRAVITY

Determined by:

Depth (m) :
Rock Type :
S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/6

LAB. K.I.S.			LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.		
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo
D 2888	0.25	0.04	D 3524	0.24	0.03	D 3525	0.27	0.04	D 3526	0.38	0.42
2892	0.39	0.02	3527	0.38	0.01	3528	0.39	0.015	3529	0.67	0.019
2896	2.05	0.09	3530	2.00	0.07	3531	1.88	0.079	3532	2.25	0.078
2901	0.98	0.12	3533	0.98	0.06	3534	0.87	0.061	3535	1.08	0.063
2910	0.36	0.06	3536	0.37	0.01	3537	0.36	0.026	3538	0.45	0.028
2914	1.56	0.16	3539	1.42	0.07	3540	1.31	0.088	3541	1.69	0.087
2924	1.00	0.09	3542	1.01	0.03	3543	0.86	0.042	3544	0.99	0.044
2932	0.14	0.03	3545	0.13	0.01	3546	0.12	0.006	3547	0.16	0.005

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. No. D200/6

0 - 6.0 GARNET PYROXENE HORNFELS

This is a very weakly mineralized B lens skarn containing only occasional specks of scheelite and the core has not been split.

The skarn is pyroxene and grossular garnet rich with minor carbonate.

The quality of the core is not good and is leached and weakly brecciated.

6.0 - 26.0 HANGINGWALL BIOTITE HORNFELS

Fine grained grey black barren hornfels. Core is badly broken to 10.5m and R.Q.D. in interval 6.0 - 10.5 = 21%.

The unit exhibits some banding (bedding?) to 17m as follows:

11m	30°	to	L.A.O.C.
15m	20°	"	"
17m	30°	"	"

Below 10.5m quality of core is good.

26.0 - 43.50 PYROXENE GARNET HORNFELS

A typical 'pgh' with a pale green pyroxene groundmass containing pods of white carbonate up to 10cm diameter rimmed with pale brown/honey coloured grossular garnet.

Unmineralized to 33m but below here scheelite is very patchy with some isolated patches of coarse scheelite. e.g. 33.85, 36.90, and 39.62

With the exception of the few patches of coarse scheelite the unit would be sub oregrade.

Quality of core is good.

32.50 - 32.55 brecciated core recemented in clay matrix.

37.0 - 40.0 core is weakly leached.

41.07 - 41.25 broken core.

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NoD200/6

43.50 - 54.31 GARNET HORNFELS

A highly mineralized andradite garnet skarn. Medium to coarse grained with abundant disseminated scheelite. The unit becomes more finer grained with less mineralization below 52m as the skarn unit grades into the marble marker. Quality of core is moderate only.

54.31 - 65.82 MARBLE MARKER

This marker horizon is a mixture of the following:-

54.31 - 57.60 pyroxene and calcite hornfels weakly mineralized
54.31 - 56.0.
57.60 - 59.03 barren banded bh/ph.
bedding 55° L.A.O.C.
59.03 - 64.42 core absent.
64.42 - 64.51 barren bh.
64.51 - 65.82 dirty grey marble containing sub oregrade
scheelite.

65.82 - 91.93 LOWER C LENS

Banded andradite garnet skarn and thin (<2cm) pale green pyroxene hornfels. The unit is medium grained and mineralization is generally uniform throughout.

Bedding: 79m 65° L.A.O.C.
84m 50° "
89m 55° "

Abundant free molybdenite between 72 - 74 metres.

91.93 - 100.05 MINERALISED BANDED FOOTWALL BEDS

Similar unit to the banded garnet hornfels of the lower C lens as described above but there is a higher proportion of unmineralized white carbonate beds.

Lost core -

91.13 - 93.80 2.32 recovered.
= 13 % coreloss.

Bedding 94m 30° L.A.O.C.
96m 40° "
99m 50° "

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. No. D200/6

100.05 - 108.40 **BANDED BIOTITE PYROXENE HORNFELS**

A thinly banded biotite / pyroxene and biotite / actinolite hornfels.

A couple of sections of mineralized skarn at
102.84 - 103.10

105.80 - 106.38

Bedding: 102m 40° L.A.O.C.
106m 55° "

108.40 - 113.30 **LOWER METAVOLCANICS**

Between 108.4 - 109.4m this unit has the typical appearance of lower metavolcanics but below 109.4m is much more pale in colour and has a 'bleached' appearance. The texture is variable but vaguely similar to typical lower metavolcanics.

113.3 - 149.8 **BANDED BIOTITE / ACTINOLITE HORNFELS**

Thinly banded, barren dark grey / light grey biotite / actinolite hornfels.

Bedding: 115m 60° L.A.O.C.
118m 60° "
128m 45° "
121m 45° "

Between 129.6 - 130.1 rock has a vague 'Lower metavolcanic' appearance.

134.06 - 134.83 Aplite
Bedding 137m 30° L.A.O.C.
144m 40° "

The very regular thin bedding of this unit becomes quite disturbed and irregular below 138m.

149.90m **NORTHERN BOUNDARY FAULT**

149.9 - 153.31 **QUARTZITE**

Pale grey, barren, clay on fracture surfaces.

153.31 metres. **E.O.H.**

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 200/5 APLANNING

Proposer: M. J. Danielson Depth: 90

Location: 220 200 E drill cuddy
- B Lens drive.

Purpose of hole: Test C Lens.

Co-ordinates: 220 200 E 564 115 N

Inclination: -67° Target depth: 40 metres.Bearing: 360 $^{\circ}$ Grid $^{\circ}$ Magnetic

Target: E N

Approved by: M. C. Rogers. Date: 1/9/74

SURVEY

Survey Co-ords: E N

Survey bearing: $^{\circ}$ Grid $^{\circ}$ Magnetic

Surveyed in by: Date:

Actual Co-ords: 220 200.0 E 564 121.5 N

R.L. of collar: -76.1 Inclination of hole:

Picked up by: M.G.M. Date: 26/9/74

SUMMARY

Logged by: M.J. Danielson

Results: C lens

22 - 26m,	4m	@	3.09%WO ₃
36 - 48m,	12m	@	1.24%WO ₃
62 - 73m,	11m	@	0.86%WO ₃

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 18/9/74

Date terminated: 2/10/74

Casing: Size : BX

Depth: 0.70

Core: Size : NQ BQ

Depth: 0.70 91.97

Wedge Runoff:

Wedge placed: NIL.

Depth: 91.97 metres.

Proposed by:

Approved by:

Reason:

Extension: NIL.

Final depth: 91.97 Metres.

Reason for termination: Hole located Lower Metavolcanics.

Condition of hole on completion:

Casing : 0.70m BX remains.

Cemented: Yes.

Bore hole survey: Surveyed to 91.44 metres.

Water: Normal water pressure throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - Dolphin MineSUMMARY BORE HOLE SURVEY DATAD.D.H. No. D 200/5 A

Survey method : Multishot camera
 Final depth : 91.97 metres.
 Casing depth : 1.52 metres.

Depth surveyed to : 91.44m.
 Date surveyed : 1/10/74
 Surveyed by : G.L. Buckland.
 Checked by : G.L. Buckland.

DEPTH (m)	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
15.24	358 ⁰ 30'	349 ⁰ 30'	22 ⁰ 30'	-67 ⁰ 30'	14.06	5.80	1.01
30.48	358 ⁰	349 ⁰	22 ⁰	-68 ⁰	28.19	11.40	2.10
45.72	357 ⁰ 30'	348 ⁰ 30'	22 ⁰	-68 ⁰	42.32	16.99	3.26
60.96	356 ⁰	347 ⁰	22 ⁰	-68 ⁰	56.46	22.53	4.50
76.20	354 ⁰ 15'	345 ⁰ 15'	21 ⁰ 45'	-68 ⁰ 15'	70.61	28.01	5.88
91.44	354 ⁰	345 ⁰	21 ⁰ 45'	-68 ⁰ 15'	84.77	33.46	7.34

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO.D 200/5A

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 16.57	B lens / Handingwall bh.	20		clay, minor chlorite		86	25	bad ground: 10.0 - 10.82 14.0 - 14.94 Core appears brecciated @ 10.65
16.57 - 36.27	pgh	8		minor pyrite and carbonate		97	83	Weakly leached: 24.40 - 26.95
36.27 - 47.88	gh	8		minor Carbonate.		99	77	Good quality core except: 46.57 - 47.71, where it is broken into short (<8cm) lengths. Core is weakly leached in this interval.
47.88 - 80.47	Marker beds/ banded gh/banded bph.	7		carbonate chlorite 51.45 and 76.45	57m:45° 66m:55° 70m:60° 75m:55° LAOC	98	80	Ground core: 65.88 - 66.0

FURTHER DATA & REMARKS (Compression Tests)

- Core size: 0 - 0.70 NQ
0.70 - 91.97m BQ
- Detailed % core recoveries within each depth interval is shown on the core recovery page.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 200/5A

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
80.47 - 89.23	banded bph.	+20		Minor carbon- ate, chlorite @ 82.91	84m:65° LAOC	92	10	Generally poor ground, being badly shattered: 85.16 - 89.23. At 81.40 core is brecciated and recemented with carbon- ate.
89.23 - 91.97	banded bph/ lower volcanics	17		Abundant chlorite: 91.45 - 91.97	90m:75° LAOC	109	47	

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLANDCORE RECOVERY

D.D.H. No.D 200/5 A

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.96	3.96	2.35	59
4.42	.44	.37	84
4.72	.30	.29	97
5.13	.41	.37	90
7.57	2.44	1.62	66
8.71	1.14	1.15	101
10.54	1.83	2.00	109
12.50	1.96	1.95	99
14.94	2.44	2.55	105
16.00	1.06	1.05	99
18.14	2.14	2.10	98
20.27	2.13	1.75	82
23.01	2.74	2.83	103
23.01	2.74	2.83	103
23.62	.61	.60	98
24.23	.61	.69	113
27.36	3.13	3.05	97
29.41	2.05	2.10	102
31.24	1.83	1.85	101
33.22	1.98	1.94	98
36.27	3.05	3.05	100
37.80	1.53	1.60	105
40.83	3.03	3.00	99
43.28	2.45	2.49	102
45.59	2.29	2.12	93
48.92	3.35	3.20	96
49.38	0.46	.44	96
50.44	1.06	1.08	102
51.04	.60	.59	98
54.10	3.06	3.01	98
57.15	3.05	3.01	99
60.20	3.05	2.99	98
63.25	3.05	3.05	100
66.30	3.05	3.02	99
69.04	2.74	2.68	98
71.93	2.89	2.80	97
74.68	2.75	2.63	96
74.98	.30	.34	113
78.03	3.05	3.00	98
80.47	2.44	2.40	98
82.91	2.44	1.70	70
83.29	0.38	.38	100
83.90	.61	.62	101
84.20	.30	.24	80
85.57	1.37	1.27	93

GEOPEKO LIMITED - KING ISLANDCORE RECOVERYD.D.H. No. D 200/5 A

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
85.88	.31	.26	84
86.33	.45	.45	100
86.64	.31	.26	84
86.72	.08	.12	15
87.32	.60	.86	143
88.31	.99	1.00	101
89.23	.92	.90	98
91.97	2.74	3.00	109

GEOPEKO LIMITED - Dolphin MineASSAY DATAD.D.H. No. D 200/5A

SAMPLE No.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO ₃	Mo					
D2720	20	21	1.0	1.0	0.12	0.01					
1	21	22	"	"	0.03	0.01					
2	22	23	"	1.10	1.35	0.04					
3	23	24	"	1.0	8.60	0.40					C lens
4	24	25	"	"	2.12	0.08					22-26m.
5	25	26	"	"	0.29	0.01					4m @
6	26	27	"	"	0.14	<0.01					3.09
7	27	28	"	"	0.09	<0.01					% WO ₃
8	28	29	"	1.14	0.49	<0.01					
9	29	30	"	1.0	0.01	<0.01					
30	30	31	"	"	<0.01	<0.01					
x1	31	32	"	"	0.08	<0.01	*				
2	32	33	"	"	0.04	<0.01					
3	33	34	"	"	0.06	<0.01					
4	34	35	"	"	0.06	<0.01					
5	35	36	"	1.11	0.13	0.01					
6	36	37	"	1.0	0.58	0.02					
7	37	38	"	1.07	2.40	0.22					
8	38	39	"	1.0	1.16	0.05					
9	39	40	"	"	1.45	0.06					C lens
40	40	41	"	"	1.13	0.05					36-48m,
1	41	42	"	"	1.22	0.06	*				12m
2742	42	43	"	"	1.34	0.06	*				@ 1.24
3	43	44	"	"	1.16	0.05					% WO ₃
4	44	45	"	"	1.16	0.05					
5	45	46	"	"	1.08	0.06					
6	46	47	"	"	1.27	0.06					
7	47	48	"	0.95	0.90	0.05					
8	48	49	"	1.0	0.06	<0.01					
9	49	50	"	"	0.04	<0.01					
50	50	51	"	"	0.09	<0.01					
1	51	52	"	"	<0.01	<0.01					
2	52	53	"	"	0.21	<0.01					
3	53	54	"	"	<0.01	<0.01					
4	54	55	"	"	<0.01	<0.01					
5	55	56	"	"	<0.01	<0.01					
6	56	57	"	"	<0.01	<0.01					
7	57	58	"	"	<0.01	<0.01					
8	58	59	"	"	<0.01	<0.01					
9	59	60	"	0.90	0.24	<0.01					
60	60	61	"	1.0	0.39	0.02					

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - Dolphin MineASSAY DATAD.D.H. No. D 200/5A

SAMPLE No.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO ₃	Mo					
D2761	61	62	1.0	1.0	0.06	< 0.01					
2	62	63	"	"	0.88	0.04					
3	63	64	"	"	0.68	0.02	x				
4	64	65	"	"	1.08	0.04					
5	65	66	"	"	2.50	0.11					
6	66	67	"	"	0.54	0.04					
7	67	68	"	"	0.54	0.02					
8	68	69	"	"	0.78	0.03					
9	69	70	"	"	0.16	< 0.01					
70	70	71	"	0.91	0.76	0.03					
1	71	72	"	1.0	0.68	0.02	x				
2	72	73	"	"	0.86	0.03	x				
3	73	74	"	0.85	0.16	< 0.01					
4	74	75	"	1.0	0.20	< 0.01					
2775	75	76	"	"	< 0.01	< 0.01					

↓
C lens
62-73m.
11m
@ 0.86
% WO₃

↑

SPECIFIC GRAVITY

Determined by:

Depth (m) :
Rock Type :
S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/5A

LAB. K.I.S.			LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.		
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo
D 2731	0.08	< 0.01	D 3506	0.05	< 0.01	D 3507	0.04	0.009	D 3508	0.064	0.013
2741	1.22	0.06	3509	1.16	0.05	3510	1.06	0.068	3511	1.23	0.063
2742	1.34	0.06	3512	1.24	0.05	3513	1.13	0.066	3514	1.32	0.067
2763	0.68	0.02	3515	0.70	0.01	3516	0.69	0.032	3517	0.79	0.032
2771	0.68	0.02	3518	0.64	< 0.01	3519	0.65	0.025	3520	0.68	0.026
2772	0.86	0.03	3521	0.78	0.01	3522	0.76	0.034	3523	0.92	0.038

GEOPEKO LIMITED -GEOLOGICAL LOGD.D.H. No. D 200/5 A

0 - 5.13

B LENS

Mostly a green pyroxene hornfels with some honey coloured grossular garnet skarn between 1 - 2m. This skarn appears leached which would be compatible with closeness of Wedge Fault which is exposed in 220 200 E B Lens drill cuddy. No mineralisation.

5.13 - 16.57

HANGINGWALL BIOTITE HORNFELS

A barren grey brown biotite hornfels. Core is badly broken throughout RQD = 25% and shows some signs of brecciation at 10.65 metres. Mostly clay with some minor chlorite on joint surfaces. Some lost core as follows:-

5.13 - 7.57, 1.62m recovered - ie. 34% lost.

16.57 - 36.27

PYROXENE GARNET HORNFELS

A green pyroxene and brown grossular garnet rock. The typical garnet rimmed calcite ovoids are absent but there are some irregular patches of carbonate and grossular garnet which occasionally cluster together to vaguely resemble the typical pgh texture.

The unit is only very weakly mineralised, mainly in the form of coarse scheelite. eg. 23.13 - 23.19
23.98 - 24.07

36.27 - 47.88

GARNET HORNFELS

Medium to coarse grained brown andradite garnet skarn carrying medium to high grade finely disseminated scheelite. The lower 1 metre of this unit appears weakly leached.

47.88 - 63.00

MARKER BEDS

This unit is a mixed variety of lithologies subdivided as follows:-

47.88 - 49.75 barren brown biotite hornfels with some minor scheelite bearing andradite garnet skarn.

49.75 - 52.0 barren grey marble.

GEOPEKO LIMITED -GEOLOGICAL LOGD.D.H. No. D 200/5 A

- 52.0 - 53.8 pyroxene grossular garnet skarn with occasional scheelite grain.
- 53.8 - 55.8 barren grey brown biotite hornfels.
- 55.8 - 59.3 barren grey marble with minor honey coloured grossular garnet developed.
- 59.3 - 63.0 on bh and ch rich andradite skarn. This interval seems gradational to the banded gh below. Minor disseminated scheelite.

63.0 - 74.98

BANDED GARNET HORNFELS

Interbedded brown scheelite bearing andradite garnet skarn and barren bh, ch and ph. The barren interbeds are usually less than 4cm thick but occasionally up to 6cm. eg. carbonate bed at 70 metres.

74.98 - 91.45

BANDED BIOTITE PYROXENE HORNFELS

Mostly a purplish brown biotite hornfels with thin (<1cm) interbeds of a grey green pyroxene actinolite bed. No mineralisation.

Between 77 - 80m the diagnostic bedding is absent and the unit has a mottled green black appearance with a volcanic (?) texture. The interval does not appear to be typical lower volcanics and is not logged as such.

Bedding:	57m	45°	LAOC.
	66m	55°	"
	70m	60°	"
	75m	55°	"
	84m	65°	"
	90m	75°	"

91.45 - 91.97

LOWER VOLCANICS

Typical lower metavolcanics. A speckled (biotite) brown rock with remnant volcanic texture. Minor white feldspar grains.

91.97 E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 200/5PLANNING

Proposer: M. J. Danielson Depth: 90

Location: 220 200 E drill cuddy
- B lens drive.

Purpose of hole: Test C lens horizon.

Co-ordinates: 220200 E 564115 N

Inclination: - 67° Target depth: 40m.

Bearing: 360° °Grid °Magnetic

Target: E N

Approved by: M.C. Rogers Date: 1/9/74

SURVEY

Survey Co-ords: E N

Survey bearing: °Grid °Magnetic

Surveyed in by: Date:

Actual Co-ords: 220200.0 E 564121.5 N

R.L. of collar: - 76.1 Inclination of hole:

Picked up by: M.G.M. Date: 26 September, 1974.

SUMMARY

Logged by: G.L. Buckland.

Results: Core not assayed.

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 5/9/74

Date terminated: 17/9/74

Casing: Size : BX

Depth: 0.61

Core: Size : NQ

BQ

Depth: 0.61 54.33

Wedge Runoff: NIL

Wedge placed:

Depth:

Proposed by:

Approved by:

Reason:

Extension: NIL

Final depth: 54.33

Reason for termination: Hole deviated too far
west of section.

Condition of hole on completion:

Casing : 0.61m BX remains.

Cemented: Yes

Bore hole survey: No.

Water: Normal water pressure throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - Dolphin MineGEOLOGICAL LOGD.D.H. NO. D 200/5**CORE SIZE**

0 - 0.61	NQ
0.61 - 54.33	BQ

0 - 3.47

B LENS

A pink grossular garnet and green pyroxene rich rock with minor carbonate, being unmineralised.

1.20 - 1.78 and 3.33 - 3.38 are intervals of predominantly grossular garnet which is weakly leached.

A weakly fragmental texture is displayed from 2.23 - 3.47.

3.47 - 16.02

HANGINGWALL BIOTITE HORNFELS

This is a bedded grey - black biotite hornfels which becomes more pyroxene rich from 13.50m.

Ovate blebs of biotite (up to 5mm in length) are developed subparallel to the bedding between 11.85 and 13.21.

Bedding: 11.0m 60° LAOC
15.0m 50° "

Chlorite and pyrite are the main joint surface coatings.

The ground is badly broken between 3.66 and 9.60 having an RQD of 18%.

CORE LOSS

3.66 - 6.10	32% lost.
6.90 - 9.60	31% "

16.02 - 35.56

PYROXENE GARNET HORNFELS

Green pyroxene, pink grossular garnet and calcite ovoids (up to 5cm in length), are the major constituents of this rock.

This unit is weakly mineralised from 22.30 to 35.56 and coarse scheelite occurs at:

19.88
20.75
22.80
24.30
25.65 and
28.12.

Quality of core is very good.

35.56 - 43.20

UPPER C LENS

A highly mineralised medium to coarse grained andradite garnet skarn.

The interval 36.90 - 37.40 is exceptionally highly mineralised with coarse scheelite in comparison to finely disseminated scheelite over the remainder of the unit.

GEOPEKO LIMITED - Dolphin Mine

GEOLOGICAL LOG

D.D.H. NO. D 200/5

Points are carbonate filled and core quality is good.

43.20 - 50.86

MARBLE

A bedded barren grey and white marble.

Bedding: 45m 60° LAOC.

The interval 46.90 to 50.86 is a mixture of rock types subdivided as follows:-

46.90-47.82 a purplish biotite hornfels.

47.82 - 48.22 a weakly mineralised grossular garnet skarn.

48.22 - 48.64 biotite hornfels

48.64 - 50.86 marble, as above.

Rubbly core: 46.94 - 47.30.

50.86 - 52.66

PYROXENE HORNFELS

A rock containing abundant pyroxene and lesser amounts of grossular garnet and biotite.

The first 80cms contains weak scheelite mineralisation.

Carbonate veins (30° to LAOC) occur at 51.66, 51.75 and 52.05.

52.66 - 54.33

BIOTITE HORNFELS

A bedded brown fine grained homogeneous biotite hornfels.

Bedding: 53.5m 60° LAOC.

27% core loss is recorded in the interval 53.95 - 54.33.

54.33 E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 200/4PLANNING

Proposer: M.J. Danielson Depth: 90m

Location: 220 200E drill cuddy
B Lens drive.

Purpose of hole: Test C Lens.

Co-ordinates: 220 200 E 564 120 N

Inclination: -83° Target depth: 40mBearing: 180 $^{\circ}$ Grid $^{\circ}$ Magnetic

Target: E N

Approved by: M.C.Rogers. Date: 1/9/74

SURVEY

Survey Co-ords: E N

Survey bearing: $^{\circ}$ Grid $^{\circ}$ Magnetic

Surveyed in by: Date:

Actual Co-ords: 220201.0 E 564119.8 N

R.L. of collar: -76.4 Inclination of hole:

Picked up by: M.C.M. Date: 18/10/74

SUMMARY

Logged by: M.J. Danielson.

Results: Upper C Lens (pgh)

25 - 35m, 10m @ 1.14% WO_3 C lens 39 - 61m, 22m @ 1.02% WO_3 DRILLING

Driller / Contractor: A.D.D.

Date commenced: 4/10/74

Date terminated: 25/10/74

Casing: Size: BX

Depth: 1.52

Core: Size: NQ BQ

Depth: 0.53 106.88

Wedge Runoff:

Wedge placed: NIL

Depth:

Proposed by:

Approved by:

Reason:

Extension: NIL

Final depth: 106.88m

Reason for termination: Drilled 30m below lower metavolcanics,
yet hole failed to locate quartzites.

Condition of hole on completion:

Casing : 1.52m BX remains

Cemented: Yes

Bore hole survey: Surveyed to 106.68m.

Water: Drilling water return obscured by pool of water in cuddy
floor - assume normal.

Comments on drilling conditions:

GEOPEKO LIMITED - Dolphin MineSUMMARY BORE HOLE SURVEY DATAD.D.H. No. D 200/4

Survey method : Multishot camera

Depth surveyed to : 106.68m.

Final depth : 106.88m.

Date surveyed : 25/10/74

Casing depth : 1.52m.

Surveyed by : G.L. Buckland.

Checked by : G.L. Buckland.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		E S	N W
15.24	192°30'	183°30'	7°	- 83°	15.13	1.86	0.12
30.48	203°	194°	7°	- 83°	30.25	3.68	0.49
45.72	204°	195°	7°	- 83°	45.38	5.48	0.93
60.96	204°	195°	7°	- 83°	60.51	7.28	1.41
76.20	207°	198°	7°	- 83°	75.64	9.05	1.99
91.44	210°	201°	7°15'	- 82°45'	90.75	10.87	2.61
106.68	212°	203°	7°30'	- 82°30'	105.86	12.72	3.35

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/4

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 7.82	B lens/ bph	13		clay; chlorite 2.16 - 7.01	2.5m: 35°	93	53	0 - 6.50: core is weakly leached.
7.82 - 16.71	bph/bh	16		clay, minor pyrite <i>and</i> chlorite: 8 - 16m.		104	29	bad ground.
16.71 - 23.65	bh	6		minor pyrite @ 18.60 minor carbonate @ 22.60		94	88	
23.65 - 38.67	pgh	5		chlorite @ 25.18, 36.66, 37.17. carbonate @ 27.15, 28.12.		100	86	core weakly leached; 34.52 - 38.41

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}} \%$
- Core size.
 - 0 - 0.53 NQ
 - 0.53 - BQ
 - 106.88m.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 200/4

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Dipping	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
58.67 - 61.96	gh/ Lower C lens	11		minor carbon/ ate <i>and</i> pyrite.	56m:40° 58m:45° LAOC	103	62	bad ground (rubbly core): 55.12 - 56.95. Fault? 51.88 - 52.91: core is broken into short lengths (all less than 8cm. in length).
61.96 - 77.80	Unmineral/ ised bfb/ 7 lower metavolcanics			minor pyrite @ 64.72. chlorite: 74.90 - 77.67	63.5m:60° 67m:55° LAOC.	100	82	Excellent quality core in zone of lower metavolcanics.
77.80 - 89.92	banded biotite actinolite hornfels.	19		chlorite @ 80.10 82.60 87.40	89m:75°	112	23	generally bad ground but core is shattered: 80.96 - 82.24 and 84.90 - 85.92
89.92 - 106.88	banded biotite actinolite hornfels.	18		chlorite is gen/ eral minor pyrite: 105.88	93m:80° 96m:60° 99m:50° 103m:70°	104	40	rubble: 90.0 - 90.40 95.25 - 95.66 103.94 - 104.25

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}} \%$
- Core size.

GEOPEKO LIMITED - KING ISLANDCORE RECOVERYD.D.H. No. D 200/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.96	3.96	3.66	92
7.01	3.05	2.79	91
10.06	3.05	3.15	103
12.04	1.98	2.10	106
13.56	1.52	1.36	89
15.80	2.24	2.40	107
16.71	0.91	1.05	115
19.76	3.05	2.74	90
22.81	3.05	2.96	97
25.86	3.05	3.09	101
28.90	3.04	3.05	100
31.95	3.05	3.00	98
35.00	3.05	2.95	97
38.05	3.05	3.17	104
41.10	3.05	3.16	104
44.14	3.04	3.08	101
46.58	2.44	2.61	107
49.63	3.05	3.19	105
52.69	3.06	2.98	97
55.73	3.04	3.16	104
56.95	1.22	1.00	82
58.01	1.06	1.31	123
60.98	2.97	3.25	109
63.50	2.52	2.53	101
66.55	3.05	2.97	97
69.59	3.04	3.13	103
72.64	3.05	3.02	99
75.69	3.05	3.10	102
77.67	1.98	2.02	102
80.42	2.75	2.86	104
82.24	1.82	1.97	108
85.29	3.05	3.28	108
85.65	0.36	0.69	192
86.46	0.81	1.06	131
86.72	0.26	0.21	81
87.93	1.21	1.36	112
89.92	1.99	2.23	112
92.96	3.04	3.42	112
95.40	2.44	2.55	105
98.15	2.75	2.98	108
101.50	3.35	2.96	88
103.94	2.44	2.55	105
104.14	0.20	0.18	90
105.66	1.52	1.61	106
106.88	1.22	1.32	108

GEOPEKO LIMITED - Dolphin MineASSAY DATAD.D.H. No. D 200/4

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length recovered	WO ₃	Mo.			
D2817	24	25	1.0	1.0	0.15	0.01			
8	25	26	"	"	0.80	0.04	x		
9	26	27	"	"	4.10	0.17			
20	27	28	"	"	1.17	0.08			Upper C
1	28	29	"	"	0.38	0.05			Lens
2	29	30	"	"	1.28	0.08			(pgh)
3	30	31	"	"	0.24	0.01			25 - 35m,
4	31	32	"	"	1.96	0.09			10m @
5	32	33	"	"	0.06	0.03			1.14% WO ₃
7633	33	34	"	"	1.14	0.05	x		
7	34	35	"	"	0.26	0.03			
8	35	36	"	"	0.04	0.01			
9	36	37	"	"	0.10	0.01			
30	37	38	"	"	0.24	0.05			
1	38	39	"	"	0.23	0.06			
2	39	40	"	"	1.01	0.05			
3	40	41	"	"	2.80	0.15			
4	41	42	"	"	0.98	0.06	x		
5	42	43	"	"	1.16	0.06			
6	43	44	"	"	1.19	0.06			
7	44	45	"	"	1.13	0.06			
8	45	46	"	"	1.46	0.07			
9	46	47	"	"	0.81	0.05			
D2840	47	48	"	"	0.86	0.05			
1	48	49	"	"	1.60	0.09			
2	49	50	"	"	1.25	0.06	x		
3	50	51	"	"	1.34	0.04			
4	51	52	"	"	0.62	0.02	x		
5	52	53	"	"	0.24	0.01			C lens:
6	53	54	"	"	1.03	0.05			39 - 61m,
7	54	55	"	"	0.59	0.04			22m @
8	55	56	"	"	0.86	0.03			1.02% WO ₃
9	56	57	"	"	0.62	0.02			
50	57 ⁵⁸	58	"	"	0.28	0.01			
1	58	59	"	"	0.42	0.03			
2	59	60	"	"	0.67	0.03			
3	60	61	"	"	1.39	0.07			
4	61	62	"	"	0.22	0.02			
D2855	62	63	"	"	0.02	0.01			

SPECIFIC GRAVITY

Determined by:

Depth (m) :
 Rock Type :
 S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/4

LAB. K.I.S.			LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.		
Original Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo
D 2818	0.80	0.04	D 3491	0.86	0.01	D 3492	0.94	0.033	D 3493	0.98	0.032
2826	1.14	0.05	3494	0.05	<0.01	3495	0.03	0.023	3496	0.08	0.024
2834	0.98	0.06	3497	0.98	0.02	3498	0.90	0.041	3499	1.03	0.041
2842	1.25	0.06	3500	1.20	0.02	3501	1.15	0.043	3502	1.36	0.043
2844	0.62	0.02	3503	0.56	<0.01	3504	0.55	0.012	3505	0.72	0.015

GEOPEKO LIMITED - Dolphin MineGEOLOGICAL LOGD.D.H. No. D 200/4

00 - 6.45

B Lens

Mostly a pale green pyroxene hornfels with minor development of pink grossular garnet - no mineralisation. Minor skarn developed 6.0 - 6.45.

Bedding 2.5m 35° LAOC

6.45 - 14.0

Biotite - Pyroxene Hornfels

Dominantly a barren grey fine grained biotite hornfels with some minor pyroxene and carbonate interbeds.

Mo mineralisation. Typical of the Lower B Lens contact.

Minor chlorite on joint surfaces 8 - 16m.

Lost core: 12.04 - 13.56 1.36m. recovered.

14.0 - 23.65

Biotite Hornfels

Barren grey fine grained biotite hornfels. Weakly spotted 20 - 21m.

Good quality core. RQD 16.7 - 23.6 88%

23.65 - 38.67

Pyroxene Garnet Hornfels

Pale green pyroxene hornfels and pink grossular garnet.

Some white irregular shaped patches of carbonate which could not really be described as 'pods'. The whole unit

contains patchy mineralisation generally in form of coarse grains up to 1cm diameter. The pgh is clay recemented breccia

and weakly leached between 37.5 - 38.0 metres.

38.67 - 51.0

Garnet Hornfels

Typical medium grained brown andradite garnet skarn -

high grade finely disseminated scheelite. The lower contact

of this unit with the banded Lower C Lens appears gradational and there is no marble marker.

51.0 - 61.0

Lower C Lens

Weakly banded andradite garnet skarn - medium to fine grained with moderate disseminated scheelite.

Fault? core badly broken and weakly leached 55.5 - 57.0

No significant core loss.

Bedding 56m 40° LAOC
58 45°

GEOPEKO LIMITED - Dolphin MineGEOLOGICAL LOGD.D.H. No. D 200/4

61.0 - 69.60

Unmineralised Banded Footwall Beds

A banded sequence of grey black, biotite hornfels, grey actinolite hornfels, green pyroxene hornfels, white barren marble and minor thin interbeds (<1cm) of honey coloured grossular garnet.

No mineralisation.

Bedding: 63.5m 60°
67m 55°

69.60 - 77.85

Lower Metavolcanics

Typical barren grey green lower volcanics. Abundant brown spots (< 1mm diameter) of biotite.

77.85 - 106.88
E.O.H.Banded Biotite - Actinolite Hornfels

A thinly banded (usually < 1cm) sequence of grey (ah) and black (bh) hornfels.

No mineralisation.

Aplite. 84.10 - 84.65

100.45 101.15

Bedding. 89m 75° LAOC
93m 80° LAOC
96m 60° "
99m 50° "
103m 70° "

Quality of core is generally poor in this unit with much breakage along bedding planes.

RQD 77.8 - 89.9 23%

89.9 - 106.88 40%

106.88m E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 200/3PLANNING

Proposer: M. J. Danielson Depth: 95

Location: 220 200E drill cuddy
main declinePurpose of hole: To test Wedge and Central Faults
and C lens horizon.

Co-ordinates: 220 200E E 564 050 N

Inclination: -60° Target depth: 20mBearing: 360° $^{\circ}$ Grid $^{\circ}$ Magnetic

Target: E N

Approved by: M. C. Rogers Date: 1/9/74

SURVEY

Survey Co-ords: E N

Survey bearing: $^{\circ}$ Grid $^{\circ}$ Magnetic

Surveyed in by: Date:

Actual Co-ords: 220198.9 E 564061.3 N

R.L. of collar: -91.5 Inclination of hole:

Picked up by: M.G.M. Date: 13 September, 1974

SUMMARY

Logged by: M.J. Danielson.

Results: B lens: 1-5m, 4m @ 0.54% WO_3 .C lens: 44-61m, 17m @ 0.75% WO_3 DRILLING

Driller / Contractor: A.D.D.

Date commenced: 5.9.74

Date terminated: 12.9.74

Casing: Size: NX

Depth: 0.62

Core: Size: NQ BQ

Depth: 0.62 81.15

Wedge Runoff:

Wedge placed: NIL

Depth:

Proposed by:

Approved by:

Reason:

Extension: NIL

Final depth: 81.15m.

Reason for termination: Hole passed through older volcanics.

Condition of hole on completion: 1.52m remains.

Casing : 1.52 remains.

Cemented: Yes

Bore hole survey: Surveyed to 79.25 metres

Water: Normal water pressure throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - Dolphin MineSUMMARY BORE HOLE SURVEY DATAD.D.H. NO. D 200/3

Survey method : Multishot camera

Depth surveyed to : 79.25m.

Final depth : 81.15m

Date surveyed : 12/9/74

Casing depth : 1.52m

Surveyed by : G.Buckland.

Checked by : G. Buckland.

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
15.24	358°	349°	30°15'	-59°45'	13.08	7.71	1.25
30.48	358°	349°	30°45'	-59°15'	26.18	15.38	2.62
45.72	355°30'	346°30'	30°45' 346°30'	-59°15'	39.25	23.03	4.65
60.96	356°	347°	30°	-60°	52.40	30.53	6.10
76.20	355°	346°	29°30'	-60°30'	65.66	37.80	7.92
79.25	355°	346°	29°45'	-60°15'	68.31	39.27	8.28

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 200/3

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0.0 - 12.78	B lens host rocks	7		minor clay and carbonate		95	78	
12.78 - 32.69	hangingwall bh	6		clay	24m:50° LAOC	100	83	
32.69 - 39.93	pgh	3		clay, minor carbonate		99	94	
39.93 - 43.66	bh/gh	+20		chlorite		92	25	Fault zone: 41.90 - 42.90
43.66 - 66.22	gh/marble marker/ banded gh/ unmineralised b.f. beds.	14		pyrite; eg @ 58.25. carbonate.	57m:55° 58:62° 59m:60° 63m:70° 65m:80° LAOC	87	46	bad ground 53.0 - 53.34 57.5 - 58.10 61.05 - 61.65 49.67 -53.34; core is leached and brecciated.

FURTHER DATA & REMARKS (Compression Tests)

- Core size: 0 - 0.62 NQ
0.62 - 81.15m BQ
- For detailed % core recovery within each depth interval see core recovery page.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 200/3

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
66.22 - 70.71	Unmineralised banded footwall beds	17		chlorite @ 67m. minor pyrite.	68m:80°	96	18	
70.71 - 77.49	Lower metavolcan- ics.	8		Abundant chlorite: 74.70 - 77.49		105	76	
77.49 - 81.15	bh	+20		minor chlorite @ 79.50m		84	19	very broken core: 79.32 - 81.15.

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLANDCORE RECOVERYD, D, H, No. D 200/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 4.14	4.14	4.12	100
7.01	2.87	2.30	80
10.13	3.12	3.12	100
13.18	3.05	3.05	100
16.23	3.05	3.00	98
19.28	3.05	3.10	102
20.95	1.67	1.71	102
22.63	1.68	1.65	98
23.54	0.91	0.91	100
26.59	3.95	3.05	100
29.64	3.05	3.05	100
32.69	3.05	3.02	99
35.74	3.05	3.05	100
37.79	2.05	2.11	103
39.93	2.14	2.04	95
41.83	1.90	1.68	88
42.98	1.15	0.95	83
43.53	0.55	0.65	118
43.66	0.13	0.16	123
44.81	1.15	1.15	100
47.75	2.94	3.03	103
49.17	1.42	1.31	92
50.70	1.53	1.46	95
52.73	2.03	1.35	67
53.34	0.61	0.70	115
54.25	0.91	0.89	98
55.02	0.77	0.45	58
55.57	0.55	0.25	45
57.07	1.50	1.23	82
58.29	1.22	1.20	98
59.38	1.09	1.18	108
61.65	2.27	1.17	52
63.09	1.44	1.52	106
64.62	1.53	1.41	92
66.22	1.60	1.42	89
66.52	0.30	0.26	87
68.20	1.68	1.51	90
68.66	0.46	0.37	80
70.71	2.05	2.15	105
73.46	2.75	3.05	111
75.36	1.90	1.90	100
77.49	2.13	2.15	101
78.71	1.22	1.13	93
79.32	0.61	0.68	111
79.88	0.56	0.34	61
81.15	1.27	0.92	72

GEOPEKO LIMITED - Dolphin MineASSAY DATAD.D.H. NO. D 200/3

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO ₃	Mo					
D2678	0	1.0	1.0	1.0	0.01	0.08					
9	1	2	"	"	0.36	0.01					B lens, 1-5m,
80	2	3	"	"	0.37	0.01					4m at
1	3	4	"	"	0.80	0.03					0.54%
2	4	5	"	0.63	0.63	0.03					WO ₃
3	5	6	"	0.77	<0.01	<0.01					
4	6	7	"	1.0	<0.01	<0.01					
5	7	8	"	"	0.37	0.02					
6	8	9	"	"	0.14	0.03					
2687	9	10	"	"	<0.01	<0.01					
2688	36	37	"	"	<0.01	<0.01					
9	37	38	"	"	1.25	0.04					
90	38	39	"	"	0.08	0.01					
1	39	40	"	0.86	3.88	0.15					
2	40	41	"	1.0	<0.01	<0.01					
3	41	42	"	0.82	<0.01	<0.01					
4	42	43	"	0.83	<0.01	<0.01					
5	43	44	"	1.0	0.09	<0.01					
6	44	45	"	"	1.57	0.02					
7	45	46	"	"	3.09	0.09					
2698	46	47	"	"	1.08	0.02					
2699	47	48	"	"	0.27	<0.01					
700	48	49	"	0.90	0.20	<0.01					
1	49	50	"	1.0	0.59	0.01					C lens
2	50	51	"	0.86	0.29	<0.01					44 - 61m
3	51	52	"	0.66	0.38	<0.01					17m @
4	52	53	"	0.64	1.00	0.02					0.75%
5	53	54	"	1.0	0.63	0.01					WO ₃
6	54	55	"	0.79	0.72	0.02					
7	55	56	"	0.57	0.32	<0.01					
8	56	57	"	0.80	0.11	<0.01					
9	57	58	"	0.88	0.87	0.01					
10	58	59	"	1.0	0.40	<0.01					
1	59	60	"	0.55	0.36	<0.01					
2	60	61	"	0.60	0.82	0.02					
3	61	62	"	0.73	0.15	0.01					
4	62	63	"	1.0	0.67	0.01					
5	63	64	"	0.92	0.06	<0.01					
6	64	65	"	1.0	<0.01	<0.01					
7	65	66	"	0.80	0.14	<0.01					
8	66	67	"	1.0	<0.01	<0.01					
D2719	67	68	"	0.75	<0.01	<0.01					

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/3

LAB. K.I.S.			LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.		
Original Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.
D 2679	0.36	0.01	D 0082	0.43	0.03	D 0081	0.48	0.025	D 0080	0.52	0.012
2682	0.63	0.03	0076	0.69	0.06	0075	0.78	0.05	0074	0.72	0.022
2689	1.25	0.04	0079	1.29	0.07	0078	1.01	0.04	0077	1.06	0.018
2696	1.57	0.02	0073	1.63	0.08	0072	1.83	0.065	0071	1.63	0.025
2714	0.67	0.01	0070	0.76	0.05	0069	0.81	0.045	0068	0.68	0.015
2678	0.01	0.08	D 0211	0.05	0.16?	D 0210	0.06	0.11	D 0209	0.18	0.061

GEOPEKO LIMITED - Dolphin MineGEOLOGICAL LOGD.D.H. NO. D 200/3

0 - 12.78

B LENS HOST ROCKS

This sequence consists of several rock types subdivided as below:-

Garnet Pyroxene Skarn. 0 - 4.65

This is weakly mineralised pyroxene rich andradite skarn.

Marble. 4.65 - 7.01

Barren grey recrystallised marble.

Garnet Pyroxene Skarn. 7.01 - 9.63

Similar unit to that described above but this is more grossular garnet rich and less mineralised.

Biotite Hornfels. 9.63 - 11.70

Barren grey brown hornfels. At 9.80 there are some angular white fragments up to 2cms dia.

Biotite Pyroxene Hornfels. 11.70 - 12.78

Banded hornfels with abundant pyrrhotite on bedding surfaces at 12.5m.

12.78 - 33.57

HANGINGWALL BIOTITE HORNFELS

Barren grey brown biotite hornfels.
Bedding: 24m 50° LAOC.

33.57 - 39.93

PYROXENE GARNET HORNFELS

For the most part a typical pgh. Mostly a fine grained green pyroxene ground mass with fragments of white carbonate up to 4cm dia. rimmed with honey coloured grossular garnet.

Very weakly mineralised with fine disseminated scheelite but some coarse scheelite at 39.23 - 39.30 metres.

39.93 - 41.90

BIOTITE HORNFELS

Barren dark grey to black biotite hornfels with moderate fine intricate white carbonate veining. The unit is weakly brecciated.

Minor core loss - 39.93 - 41.83 12% lost.

41.90 - 42.90

WEDGE FAULT (?)

Angular fragments of rock up to 5mm dia. set in a puggy green clay groundmass.

Core recovery - 41.83 - 42.98 17% lost.

GEOPEKO LIMITED - Dolphin MineGEOLOGICAL LOGD.D.H. NO. D 200/3

42.90 - 47.25

GARNET HORNFELS

The uppermost 2m of this unit is a weakly mineralised brecciated grossular garnet rich fine grained skarn.

The remainder of the unit is more typical of Upper C lens skarn in that it is:-

- a. more highly mineralised.
- b. medium to coarse grained.
- c. andradite garnet in preference to grossular.

47.25 - 49.67

MARBLE MARKER (?)

This unit is mostly an unmineralised white marble, minor grossular garnet and minor unbedded green ph and grey bh.

At 47.80m the marble contains a bedded bh/ph fragment 3cm x 2cm.

Between 47.50 - 47.65 the rock is a mixture of ch/ph/gh/bh and is leached.

49.67 - 63.09

BANDED GARNET HORNFELS

Banded andradite garnet skarn - moderate disseminated scheelite.

49.67 - 53.34 the unit is leached and brecciated.

Note significant core loss

54.25 - 55.02 42% lost

55.02 - 55.57 55% "

55.57 - 57.07 18% "

Quality of core throughout this section is very poor with much broken ground.

Very broken ground 59.38 - 61.65 48% lost.

Bedding: 57m 55° LAOC
58m 62° "
59m 60° "

63.09 - 70.20

UNMINERALISED BANDED FOOTWALL BEDS

Banded biotite pyroxene grossular garnet and unmineralised carbonate beds. Average thickness of bed approx. 1cm.

There is some very minor weakly mineralised andradite garnet skarn to 66m but totally unmineralised below that.

Bedding: 63m 70° LAOC
65m 80° "
68m 80° "

70.20 - 77.70

LOWER METAVOLCANICS

Mostly a dark greenish grey rock with flecks (< 1mm dia) of biotite and occasional feldspar grains. Remnant doleritic texture.

Quality of core in this interval is good.

70.76 - 77.49 RQD = 76%

GEOPEKO LIMITED - Dolphin Mine

GEOLOGICAL LOG

D.D.H. NO. D 200/3

77.70 - 81.15 BIOTITE HORNFELS

Barren grey biotite hornfels with some occasional thin (<5mm) green (ph) and grey actinolite beds.
Quality of core is poor.
77.49 - 81.15 RQD = 19%

81.15 metres E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 200/2PLANNING

Proposer: M. J. Danielson Depth: 120m
 Location: Dolphin Mine, Main Decline, 220 200E cuddy.

Purpose of hole: Oreblocking, possibly locate Central Fault

Co-ordinates: 220 200 E 564 060 N
 Inclination: -85° Target depth:
 Bearing: 360 °Grid °Magnetic
 Target: E N
 Approved by: M. C. Rogers Date: 1.5.74

SURVEY

Survey Co-ords: E N
 Survey bearing: °Grid °Magnetic
 Surveyed in by: Date:

Actual Co-ords: 220200.051E 564061.048N

R.L. of collar: -91.702 Inclination of hole:
 Picked up by: D. Brown Date: 6.6.74

SUMMARY

Logged by: M. J. Danielson
 Results: B lens 2 -6 4m @ 0.99% WO₃
 C lens 51 - 60 9m @ 0.72% WO₃
 C lens 65 - 72 7m @ 0.53% WO₃

DRILLING

Driller / Contractor: A.D.D.
 Date commenced: 28.5.74 Date terminated: 4.6.74

Casing:	Size :	BX			
	Depth:	2.13			
Core:	Size :	NQ	BQ		
	Depth:	0.91	90.53		

Wedge Runoff:

Wedge placed: Depth:
 Proposed by: Approved by:
 Reason:

Extension: Nil Final depth: 90.53

Reason for termination: Hole passed into unmineralised footwall sequence.

Condition of hole on completion:

Casing : 2.13 BX remaining
 Cemented: Yes

Bore hole survey: Surveyed to 88.39m

Water: Normal water pressure throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 200/2

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 10.53	B lens	6				100	78	
10.53 - 35.97	bh	6		chlorite /pyrite		100 except 38.37-35.97 10% loss	83	
35.97 - 51.20	pgh	7				100	82	
51.20 - 56.31	gh	6				100	75	53.45-56.31 core is leached probably little structural strength
56.31 - 64.55	breccia	7				91	46	bad ground 56.31-57.5 62.5-64.55
64.55 - 74.60	banded C lens	6			70m 65° 74m 60°	100	78	
74.60 - 80.30	banded footwall hornfels	+15			76m 75°	91	31	bad ground 74.6-78.2
80.30 - 90.22	lower meta volcanics	8				100	68	core is more broken below 86m

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - DOLPHIN MINESUMMARY BORE HOLE SURVEY DATAD.D.H. NO. D 200/2

Survey method : Multishot Camera

Depth surveyed to : 88.39m

Final depth : 90.53m

Date surveyed : 31.5.74

Casing depth : 2.13m

Surveyed by : G. Buckland

Checked by : M. J. Danielson

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		XXX W	N
0	360°			-85°	0		
15.24	349°	340°		-87°	15.22	0.22	0.77
30.48	349°	309°		-86.5°	30.43	0.81	1.39
45.72	305°	296°		-85°	45.61	1.97	1.98
60.96	307°	298°		-85°	60.79	3.14	2.62
76.20	303°	294°		-84.75°	75.75	4.36	3.21
88.39	304°	295°		-84°	87.88	5.51	3.75

REMARKS

GEOPEKO LIMITED - DOLPHIN MINEASSAY DATAD.D.H. NOD 200/2

SAMPLE NO.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length recovered	WO ₃	Mo	check assays WO ₃ Mo		
C 1533	1	2	1.0	1.0	0.02	0.01			
4	2	3	"	"	0.46	0.01		CAD 0.84 0.02	B lens 4m at 0.99% WO ₃
5	3	4	"	"	2.37	0.07			
6	4	5	"	"	0.70	0.02			
7	5	6	"	"	0.44	0.01			
8	6	7	"	"	0.21	0.01			
9	7	8	"	"	0.06	0.01			
40	8	9	"	"	0.04	0.01			
1	9	10	"	"	0.22	0.01			
C 1542	10	11	"	"	0.02	0.01			
C 1543	49	50	1.0	1.0	0.01	0.01			
4	50	51	"	"	0.19	0.01		CAD 0.23 0.01	C lens 9m at 0.72% WO ₃
5	51	52	"	"	0.45	0.01			
6	52	53	"	"	0.68	0.02			
7	53	54	"	"	0.69	0.06			
8	54	55	"	"	0.66	0.11			
9	55	56	"	"	0.84	0.13			
50	56	57	"	0.55	0.56	0.32			
1	57	58	"	1.0	0.85	0.03			
2	58	59	"	"	1.06	0.03			
3	59	60	"	"	0.68	0.01			
C 1554	60	61	"	"	0.07	0.01		CAD 0.90 0.04	
C 1555	65	66	"	"	0.52	0.01			
C 1556	66	67	"	"	1.00	0.02			
7	67	68	"	"	0.17	0.01			
8	68	69	"	"	0.29	0.01			C lens 7m at 0.53% WO ₃
9	69	70	"	"	0.49	0.01			

SPECIFIC GRAVITY

Determined by:

Depth (m) :

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. NO. D 200/2

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO ₃	Mo	CAD NO.	check WO ₃	Assay Mo		
C 1560	70	71	1.0	1.0	0.64	0.01					
1	71	72	"	"	0.58	0.01	CAL	1.04	0.03		
2	72	73	"	"	0.20	<0.01					
3	73	74	"	"	0.06	<0.01					
C 1564	74	75	"	"	0.09	<0.01					

SPECIFIC GRAVITY

Determined by:

Depth (m) :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/2

LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.		
Original Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.
C 1534	0.46	0.01		0.47		C 1927	0.84	0.02		0.27	
1544	0.19	< 0.01		0.22		1928	0.23	< 0.01		0.20	
1554	0.07	< 0.01		0.04		1929	0.90	0.04		0.03	
1561	0.58	0.01		0.48		1930	1.04	0.03		0.50	
C 1534	0.46	0.01	C 1086	0.42	0.01		0.40				
1544	0.19	< 0.01	1087	0.20	0.01		0.18				
1554	0.07	< 0.01	1088	0.04	< 0.01		0.03				
1561	0.58	0.01	1089	0.56	0.02		0.56				
C 1558	0.29	< 0.01	D 2106	0.29	0.01						
1537	0.44	< 0.01	2107	0.41	0.01						
1549	0.84	0.13	2108	0.80	0.15						
1556	1.00	0.02	2109	1.02	0.04						

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 220/2

LAB. K.I.S.			LAB. A.C.S.L.			LAB. A.M.D.L.			LAB.		
Original Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.
C 1561	0.58	0.01	C 1059	0.51	0.016	D 0236	0.68	0.03			
C 1556	1.00	0.02	D 0252	1.11	0.019	D 0251	1.03	0.04			

GEOPEKO LIMITED - DOLPHIN MINEGEOLOGICAL LOGD.D.H. NO.D 200/2

0 - 13.10

B LENS HOST ROCKS

A variety of B lens hornfels and marbles as follows:-

0 - 0.91 barren green pyroxene hornfels.

0.91 - 5.49 a weakly mineralised garnet pyroxene skarn.

5.49 - 6.20 barren grey marble,
Bedding 6.1m 35° L.A.O.C.

6.20 - 10.20 a pyroxene rich marble showing minor grossular garnet skarn developed with weak mineralisation. This section becomes less carbonate rich and more pyroxene rich below 9m.

10.20 - 12.68 mostly dark grey to black biotite hornfels but very minor pyroxene banding. eg 12.20 - 12.23 pyroxene. Bedding 40° L.A.O.C. No mineralisation.

12.68 - 13.10 a pyroxene rich grossular garnet skarn unmineralised.

13.10 - 35.97

HANGINGWALL BIOTITE HORNFELS

A uniform grey massive barren fine grained biotite hornfels. Spotted hornfels 23.0 - 24.2m.

Some broken core around 34.8 maybe fault. Between 33.37 - 35.97 there is 10% core loss.

35.97 - 51.20

PYROXENE GARNET HORNFELS

From 36 - 39m the core is very podded with angular fragments of carbonate up to 5cm dia. set in a pyroxene, with high biotite content, groundmass.

Below 39m the rock is more pyroxene rich, carbonate fragments are not so readily apparent and there is abundant development of a grossular rich skarn.

No significant mineralisation.

GEOPEKO LIMITED - DOLPHIN MINEGEOLOGICAL LOGD.D.H. NO.D 200/2

51.20 - 56.31

GARNET HORNFELS

This is not a typical upper C lens skarn. The andradite skarn has a high carbonate content and is also rich in pyroxene.

The core is fresh to 53.45m but below here is leached and would seem to have little structural strength.

Fine disseminated scheelite but not high grade.

56.31 - 64.55

BRECCIA

From 56.31 - 59.40 the core is a heavily brecciated garnet hornfels with very minor disseminated scheelite. Below 59.4 to 61.7m the breccia is mostly garnet hornfels but unmineralised. Below 61.7 to 64.55m the core is a heavily brecciated biotite pyroxene hornfels.

No mineralisation.

Core loss:

Between	56.31 - 57.30	0.59m	core loss
	57.30 - 60.35	Nil	core loss
	60.35 - 62.48	0.08m	core loss
	62.48 - 62.63	0.03m	core loss
	62.63 - 64.55	Nil	core loss

64.55 - 74.60

BANDED LOWER C LENS SKARN

Typical banded andradite skarn of the lower C lens, weakly mineralised throughout.

74.60 - 79.60

BANDED FOOTWALL HORNFELS

This unit is for the most part a thinly banded bh/ah with several small sections of andradite skarn developed. eg. 76.1 - 76.7m which containing minor scheelite.

Core loss:

Between	76.20 - 77.11	0.07m	lost
	77.11 - 77.72	0.21m	lost
	77.72 - 78.64	0.22m	lost

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO.D 200/2

79.60 - 86.56

LOWER METAVOLCANICS

Pale grey green rock with blebs of biotite, some feldspar laths - remnant doleritic texture.

86.56 - 90.32

BIOTITE HORNFELS

Barren massive fine grained biotite hornfels.

90.32

E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 200/1PLANNING

Proposer: M. Danielson Depth: 110m
 Location: 220 200 E Drill cuddy, main decline

Purpose of hole: Oreblocking

Co-ordinates: 220 200 E 564 062 N
 Inclination: -70° Target depth:
 Bearing: 180° Grid $^{\circ}$ Magnetic
 Target: E N
 Approved by: M. C. Rogers Date: 20.5.74

SURVEY

Survey Co-ords: E N
 Survey bearing: $^{\circ}$ Grid $^{\circ}$ Magnetic
 Surveyed in by: Date:
 Actual Co-ords: 220201.2 E 564057.7 N
 R.L. of collar: -91.7 Inclination of hole:
 Picked up by D.D. Brown Date: 24.5.74

SUMMARY

Logged by: M. J. Danielson
 Results: B Lens 5 - 8m 3m @ 3.15% C Lens 58 - 65m 7m @ 0.68%
 " 16 - 19m 3m @ 0.63% " 73 - 93m 20m @ 4.06%
 " 30 - 33m 3m @ 0.47%

DRILLING

Driller / Contractor: A.D.D.
 Date commenced: 20.5.74 Date terminated: 28.5.74
 Casing: Size : BX
 Depth: 1.52
 Core: Size : NQ BQ
 Depth: 1.52 105.46

Wedge Runoff:

Wedge placed: Nil Depth:
 Proposed by: Approved by:
 Reason:

Extension: Nil Final depth: 105.46

Reason for termination: Hole passed below lower metavolcanics unit.

Condition of hole on completion:

Casing : Nil
 Cemented: Yes

Bore hole survey: Surveyed to 103.63m

Water: Normal water pressure throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - DOLPHIN MINESUMMARY BORE HOLE SURVEY DATAD.D.H. NO. D 200/1

Survey method : Multishot Camera

Depth surveyed to : 103.63

Final depth : 105.46m

Date surveyed : 28.5.74

Casing depth : 1.52m

Surveyed by : G. Buckland

Checked by : M. Danielson

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		XX W	XX S
0	189	180		-70	-	-	-
15.24	193°15'	184°15'		-70°15'	14.34	0.26	5.15
30.48	194°	185		-70°30'	28.71	0.73	10.21
45.72	195°30'	186°30'		-70°15'	43.05	1.29	15.33
60.96	195	186		-71°30'	57.46	1.89	20.26
76.20	196	187		-71°15'	71.89	2.49	25.14
91.44	195°30'	186°30'		-71	86.31	3.06	30.04
103.63	195	186		-71	97.84	3.48	33.39

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 200/1

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 33.95	B lens	6			13m 60° 15m 35° 28m 45°	22.25 - 22.49 38% loss	82	
33.95-37.87	bh	13		chlorite /minor pyrite		100	61	bad ground 35.6-36.0 37.6-37.9
37.87-46.33	bh	9			40m 35°	93	64	
46.33-69.0	pgh	5				100	91	
69.0-79.2	gh	13				100	48	bad ground 78.5-79.2
79.2-93.35	gh	6				100	92	
93.35-96.93	bh/ph	16		chlorite /pyrite		100	28	
96.93-105.46	bh	11		chlorite /pyrite		100	61	bad ground 104 - 105.46m

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - DOLPHIN MINEASSAY DATAD.D.H. NO.D 200/1

SAMPLE NO.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length recovered	WO ₃	Mo	Check No.	WO ₃	Assay Mo	
C 1196	4	5	1.0	1.0	0.05	0.01				
7	5	6	"	"	5.60	0.16	C 1196-49	0.07		B lens 3m at 3.15% WO ₃
8	6	7	"	"	1.00	0.03				
9	7	8	"	"	2.85	0.08				
C 1200	8	9	"	"	0.01	0.01				
C 1801	16	17	"	"	1.13	0.04				B lens 3m at 0.63% WO ₃
2	17	18	"	"	0.14	0.01				
C 1803	18	19	"	"	0.61	0.02				
C 1804	30	31	"	"	0.37	0.01				B lens 3m at 0.47% WO ₃
5	31	32	"	"	0.38	0.01				
6	32	33	"	"	0.65	0.03				
C 1807	33	34	"	"	0.01	0.01	C 1807-12	0.01		
C 1808	51	52	"	"	0.22	0.01				
9	52	53	"	"	0.38	0.01				2m at 0.44% WO ₃
C 1810	53	54	"	"	0.50	0.03				
C 1845	54	55	"	"	0.04	0.01				
6	55	56	"	"	0.10	0.01				
7	56	57	"	"	0.08	0.01				
C 1848	57	58	"	"	0.08	0.03				
C 1811	58	59	"	"	0.39	0.02				
2	59	60	"	"	0.28	0.01				
3	60	61	"	"	0.05	0.01	C 1811-60	0.02		C lens 7m at 0.68% WO ₃
4	61	62	"	"	0.04	0.01				
5	62	63	"	"	0.72	0.02				
6	63	64	"	"	0.76	0.01				
7	64	65	"	"	2.50	0.10				
C 1818	65	66	"	"	0.10	0.01				

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

GEOPEKO LIMITED - DOLPHIN MINEASSAY DATAD.D.H. NO. D 200/1

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO ₃	Mo		Check No.	Wo ₃	Mo	
C 1819	71	72	1.0	1.0	0.06	<0.01					
20	72	73	"	"	<0.01	<0.01					
*1	73	74	"	"	3.70	0.10		CA21	3.4	0.12	
2	74	75	"	"	3.00	0.10					
3	75	76	"	"	5.60	0.17					
4	76	77	"	"	1.56	0.03					
5	77	78	"	"	2.22	0.06					
*6	78	79	"	"	0.70	0.01					
7	79	80	"	"	0.58	0.01					
8	80	81	"	"	2.12	0.06					
9	81	82	"	"	2.16	0.04					C lens 20m at 4.06% WO ₃ *
30	82	83	"	"	1.50	0.03					
*1	83	84	"	"	2.25	0.05		CA22	2.57	0.07	
2	84	85	"	"	0.50	0.32					
3	85	86	"	"	2.55	0.08					
4	86	87	"	"	2.60	0.09					
*5	87	88	"	"	5.60	0.18					
6	88	89	"	"	2.14	0.05					
7	89	90	"	"	0.10	<0.01					
8	90	91	"	"	5.50	0.52					15.60
9	91	92	"	"	6.20	0.53					
40	92	93	"	"	0.46	0.01					
*1	93	94	"	"	0.01	<0.01		CA23	0.03	<0.01	
2	94	95	"	"	0.23	0.01					
3	95	96	"	"	0.18	<0.01					
*C 1844	96	97	"	"	0.24	<0.01					

SPECIFIC GRAVITY

Determined by:

Depth (m) :

NOTE: If +4% assays are read as 4% the bulk assay is
20m/2.38% WO₃.

Rock Type :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/1

LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.		
Original Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.
C 1821	3.70	0.10		3.70		C 1921	3.40	0.12		3.40	
1831	2.25	0.05		2.50		1922	2.57	0.07		2.48	
1841	0.01	<0.01		0.02		1923	0.03	<0.01		0.03	
1197	5.60	0.16		5.60		1924	0.49	0.07		5.20	
1807	<0.01	<0.01		0.02		1925	0.12	<0.01		0.02	
1813	0.05	0.01		0.09		1926	3.60	0.02		0.06	
C 1821	3.70	0.10	C 1067	3.80	0.12		3.80				
1831	2.25	0.05	1068	1.22	0.04		2.20				
1841	0.01	<0.01	1069	0.10	<0.01		0.04				
1197	5.60	0.16	1070	6.2	0.21		6.20				
1807	<0.01	<0.01	1071	0.04	<0.01		0.02				
1813	0.05	0.01	1072	0.80	0.03		0.81				

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/1

LAB. K.I.S.			LAB. K.I.S.			LAB.			LAB.		
Original Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.
C 1826	0.70	0.01	D 2100	0.93	0.03						
†1844	0.24	0.01	2101	0.27	0.01						
1811	0.39	0.02	2102	0.50	0.03						
1803	0.61	0.02	2103	0.65	0.03						
1835	5.60	0.18	2104	6.0	0.23						
†1817	2.50	0.10	2105	3.17	0.14						

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 200/1

LAB. K.I.S.			LAB. A.C.S.L.			LAB. A.M.D.L.			LAB.		
Original Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.	Check Sample No.	WO ₃	Mo.
C 1197	5.6	0.16	C 1058	5.66	0.12	D 0235	4.85	0.14			
C 1844	0.24	0.01	D 0248	0.37	0.022	D 0247	0.35	0.035			
C 1817	2.50	0.10	D 0250	2.80	0.073	D 0249	2.77	0.12			

GEOPEKO LIMITED - DOLPHIN MINEGEOLOGICAL LOGD.D.H. NO. D 200/1

0 - 2.50

B LENS HANGINGWALL BIOTITE HORNFELS

Purplish brown fine grained massive barren biotite hornfels. Pyroxene rich about 1.6 - 1.7m.

2.50 - 33.95

B LENS HOST ROCKS

This unit is a collection of pyroxene, garnet and biotite hornfels and marbles which can be best subdivided as follows:-

2.50 - 12.07 Pyroxene hornfels and a pyroxene rich andradite and grossular garnet skarn. This section is variably mineralised with some coarse scheelite at 4.98 - 5.13m and 7.35 - 7.40m.

Desseminated scheelite between 5.4 and 7.9m.

Very weak disseminations between 10.0 and 10.6m.

12.07 - 15.0 Biotite hornfels. This section is basically a barren bh with minor pyroxene grossular skarn with no scheelite eg. 14.0 - 14.4m

15.0 - 27.2 Pyroxene hornfels. This unit is a mixture of predominantly ph with lesser carbonate eg. 17.8 - 18.3. The section has a mottled green (ph) and white (ch) and pink (grossular garnet) appearance. Minor disseminated scheelite 15.0 - 19.0m.

20.6 - 22.7m is a pale green very siliceous ph.

Minor disseminated scheelite 26.8 - 27.1m.

27.2 - 29.8m Marble - barren grey marble.

29.8 - 33.95 Pyroxene skarn. Predominantly a pyroxene rich skarn with moderate disseminated scheelite 30.5 - 32.9m.

33.95 - 46.33

HANGINGWALL BIOTITE HORNFELS

Grey brown massive barren fine grained biotite hornfels.

Bad ground with abundant chlorite on joint surfaces 34 - 38m.

46.33 - 71.93

PYROXENE GARNET HORNFELS

Typical green pgh with calcite ovoids up to 5cm dia. Minor disseminated scheelite 51 - 54m and 58 - 66m.

71.93 - 93.35

GARNET HORNFELS

Medium to fine grained brown andradite garnet skarn. Good disseminated scheelite 74 - 92m. Below 88.5m the core is much more pyroxene rich. Abundant coarse scheelite 90 - 91.5m.

GEOPEKO LIMITED - DOLPHIN MINEGEOLOGICAL LOGD.D.H. NO. D 200/1

93.35 - 98.4

BANDED BIOTITE PYROXENE HORNFELS

Mostly a barren banded black and green rock with minor developments of andradite skarn,

94.06 - 94.28

95.30 - 96.53

97.25 - 97.75 with minor disseminated scheelite particularly,

94.06 - 94.28

96.10 - 96.30

96.25 - 96.70

Bedding:	93.5 m	55°	L.A.O.C.
	95m	65°	L.A.O.C.
	97.5m	50°	L.A.O.C.

98.40 - 103.5

LOWER METAVOLCANICS

Dark grey to green massive fine grained and barren. Blebs of biotite and occasional feldspar lath. Remnant doleritic texture.

103.5 - 105.46

BIOTITE HORNFELS

Dark green to black barren weakly spotted hornfels.

105.46

E.O.H.