GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 120/23

PLANNING

PROPOSER: Terry F. Potter DEPTH: 35 m

LOCATION: M7 Cuddy (off N13)

PURPOSE OF HOLE: Test B Lens

PROPOSED CO-ORDS: 220120 E 563900 N

INCLINATION: +45°

BEARING: 180° °GRID °MAG

TARGET: E N

DEPTH:

CHECKED BY: S. G. Brown DATE: 4/2/80

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 177°57' °GRID °MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 220120.30 E 563896.95 N

R.L. OF COLLAR: -201.61

INCLINATION OF HOLE: +46°17'

PICKED UP BY: J. Cook DATE: 22/2/80

SUMMARY

LOGGED BY: W. Black

RESULTS: No significant mineralisation

DRILLING

DATE COMMENCED: DATE TERMINATED:

DRILLER/CONTRACTOR:

CASING: SIZE:
DEPTH:

CORE: SIZE:
DEPTH:

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 33.0 m

REASON FOR TERMINATION:

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 120/23

Surveyed method: Multishot
Final depth: 33.0 m
Casing depth: Nil

Depth surveyed to: 33.0 m
Date surveyed: 21.2.80
Surveyed by: L. Denby
Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		S	E
4.00	176°	166°	45°	+45°	2.83	2.75	.68
13.00	176°	166°	45°	+45°	9.19	8.92	2.22
22.00	176°	166°	45°	+45°	15.55	15.09	3.76
28.00	176°	166°	45°	+45°	19.79	19.20	4.79
33.00	176°	166°	45°	+45°	23.33	22.63	5.65

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 120/23

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.3	3.3	3.0	91
3.3 - 4.6	1.3	1.3	100
4.6 - 5.0	0.4	0.4	100
5.0 - 7.24	2.24	2.24	100
7.24 - 8.0	0.76	0.76	100
8.0 - 11.0	3.0	3.0	100
11.0 - 14.0	3.0	3.0	100
14.0 - 14.7	0.7	0.7	100
14.7 - 17.0	2.3	2.3	100
17.0 - 20.0	3.0	3.0	100
20.0 - 22.1	2.1	2.1	100
22.1 - 23.0	0.9	0.9	100
23.0 - 26.0	3.0	3.0	100
26.0 - 28.0	2.0	2.0	100
28.0 - 29.5	1.5	1.5	100
29.5 - 31.0	1.5	1.5	100
31.0 - 32.2	2.2	2.2	100
32.2 - 32.4	0.2	0.2	100
32.4 - 33.0	0.6	0.6	100
EOH 33.0 m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 120/23

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 - 4.9	Marble	9	34^{o}	Clay		95	51	
4.9 - 11.0	Ph	9		Clay		100	85	
11.0 - 33.0	Bh	4				100	90	

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) $+= \frac{\text{Length Core} > 10 \text{ cm}}{\text{Length Drilled}}$
3. Core size.

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D 120/23

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
D 12386	0	1	1.0	1.0	0.14	0.01		
87	1	2	"	"	0.01	0.01		
88	2	3	"	"	<0.01	0.01		
89	3	4	"	"	0.15	0.01		
90	4	5	"	"	0.08	0.01		
91	5	6	"	"	0.24	0.01		
92	6	7	"	"	<0.01	0.01		
93	7	8	"	"	0.22	0.01		
94	8	9	"	"	0.04	0.01		
95	9	10	"	"	0.46	0.01		
96	10	11	"	"	0.08	0.01		
97	11	12	"	"	0.01	0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 120/23

0.0 - 11.0 m B LENS

0.0 - 4.9 Marble
Light grey rock with a high carbonate content. Bands of Pyroxene hornfels with some scheelite mineralization present. The marble has some dark grey metamorphic spots.

Possible faults:
1.40 m shear filled with green clay. (34^{o} to LCA) + some broken core.
2.30 m Small clay-filled joint
2.40 m Small clay-filled joint
3.1 m Small clay-filled joint
3.3 m Small clay-filled joint plus broken core
3.5 m Small clay-filled joint
4.5 - 4.6 m broken core
4.8 - 4.9 m broken core.

4.9 - 11.0 Pyroxene Hornfels
A grey/green coloured rock, with very little carbonate. Bands of biotite hornfels and garnet hornfels (grossular garnet) present. Scheelite mineralisation occurs within the garnet hornfels bands.

Possible faults:
5.0 m broken core with clay.
5.3 m broken core

11.0 - 33.0 Biotite Hornfels
Dark grey to black rock, containing pyrite. No scheelite mineralisation. Intruded in many places by ptygmatically folded aplitic veins; larger aplite dykes at: 26.2 - 26.3, 27.1 - 27.25, 28.2 - 28.35, 31.3.

There are pyroxene-rich area throughout especially at: 14.25 - 14.90 m 21.3 - 21.4 m 17.2 - 17.4 m and numerous pyroxene-rich bands.

Possible faults:
24.9 highly broken core
27.1 broken core
27.9 - 28.0 highly broken core with clay.
31.8 - 32.4 broken core
24.6 - 33.0 broken core

EOH 33.0 m

Note: Mineralisation is too sparse to warrant sampling.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 120/22

PLANNING

PROPOSER: T. F. Potter DEPTH: 55 m

LOCATION: M7 Cuddy (Off N13)

PURPOSE OF HOLE: Test C lens and Granite Contact

PROPOSED CO-ORDS: 220120 E 563900 N

INCLINATION: -90^{o}

BEARING: 360 ^{o}GRID ^{o}MAG

TARGET: E N

DEPTH:

CHECKED BY: S. G. Brown DATE: 4/2/80

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 5^{o} 17' ^{o}GRID ^{o}MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 220120.32 E 563899.61 N

R.L. OF COLLAR: -206.08

INCLINATION OF HOLE: -88^{o} 26'

PICKED UP BY: J. Cook DATE: 22/2/80

SUMMARY

LOGGED BY: W. Black

RESULTS: 15-24 m, 9 m @ 1.06% WO_3, 0.02% Mo Upper C-lens
28-31 m, 3 m @ 1.03% WO_3, 0.02% Mo Lower C-lens

DRILLING

DATE COMMENCED: DATE TERMINATED:

DRILLER/CONTRACTOR:

CASING: SIZE:
DEPTH:

CORE: SIZE: BQ
DEPTH:

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 47.8 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. D120/22

Surveyed method: Multishot
Final depth: 47.80 m
Casing depth: 1.00 m

Depth surveyed to: 47.80 m
Date surveyed: 19.2.80
Surveyed by: R. Drake
Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		N	W
10.00	289°	279°	1° 30'	-88° 30'	10.00	.04	.26
28.00	284° 30'	274° 30'	1° 30'	-88° 30'	27.99	.08	.73
34.00	284°	274°	1° 30'	-88° 30'	33.99	.09	.89
46.00	289°	279°	1° 30'	-88° 30'	45.99	.14	1.20
47.80	285°	275°	1° 45'	-88° 15'	47.79	.14	1.25

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 130/22

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.10 m	3.10	2.80	90.32
3.10 - 4.90	1.80	1.80	100
4.90 - 6.50	1.60	1.60	100
6.50 - 7.63	1.13	1.13	100
7.63 - 9.50	1.87	0.87	100
9.50 - 12.50	3.00	3.00	100
12.50 - 15.17	2.67	2.67	100
15.17 - 15.20	0.03	0.03	100
15.20 - 18.20	3.00	3.00	100
18.20 - 21.50	3.30	3.30	100
21.50 - 22.63	1.13	1.13	100
22.63 - 24.50	1.87	1.87	100
24.50 - 27.50	3.00	3.00	100
27.50 - 30.07	2.57	2.57	100
30.07 - 30.50	0.43	0.43	100
30.50 - 33.50	3.00	3.00	100
33.50 - 36.50	3.00	3.70	100
36.50 - 37.58	1.08	1.08	100
37.58 - 39.50	1.92	1.92	100
39.50 - 42.50	3.00	3.00	100
42.50 - 44.00	1.50	1.50	100
44.00 - 44.90	0.90	0.90	100
44.90 - 45.50	0.60	0.60	100
45.50 - 46.40	0.90	0.90	100
46.40 - 47.80	1.40	1.40	100

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 120/22

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 - 5.55 m	B-lens	6		Clay		97	67	
5.55 - 9.75	bh	7	43	Clay		100	57	
9.75 - 18.55	pgh	5	51	Clay		100	73	
18.55 - 22.90	gh (U/C)	4				100	90	
22.90 - 32.60	L/C				79	100	90	
32.60 - 38.30	bfb	5	55		38^{o}-90^{o}	100	77	
38.30 - 40.00	ap	11				100	65	
40.00 - 42.70	Qtz	10				100	41	
42.70 - 44.00	ap	5				100	65	
44.00 - 47.80	G	5				100	67	

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) $+= \frac{\text{Length Core} > 10 \text{ cm}}{\text{Length Drilled}}$
3. Core size.

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D 120/22

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
D 11955	14	15	1.0	1.0	0.01	0.01		
56	15	16	"	"	0.71	0.01		
57	16	17	"	"	0.60	0.01		
58	17	18	"	"	0.09	0.01		
59	18	19	"	"	1.20	0.03		
60	19	20	"	"	1.71	0.04		
61	20	21	"	"	1.68	0.04		
62	21	22	"	"	1.74	0.03		
63	22	23	"	"	1.24	0.02		
64	23	24	"	"	0.56	0.02		
65	24	25	"	"	0.27	0.01		
66	25	26	"	"	0.25	0.01		
67	26	27	"	"	0.01	0.01		
68	27	28	"	"	0.01	0.01		
69	28	29	"	"	1.67	0.03		
70	29	30	"	"	0.43	0.01		
71	30	31	"	"	1.00	0.01		
72	31	32	"	"	0.03	0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 120/22

0.00 - 5.55 m B-LENS MARBLE

A dark grey rock with high carbonate content. Mainly marble with zones of pyroxene and biotite. Scheelite mineralisation is sparse - medium grade fine grained mineralisation at 5.30 - 5.55 m.

0.00 - 0.03 m Broken core
4.90 - 5.30 m Clay filled joints and broken core (fault?).
5.30 - 5.55 m Broken core

5.55 - 9.75 BIOTITE HORNFELS

A dark grey rock with some pyroxene Barren of scheelite mineralisation. Some pyrite present in veinlets with calcite.

6.15 - 6.55 m Clay filled joints and broken core (fault?).

9.75 - 18.55 PYROXENE GARNET HORNFELS

Typical pyroxene garnet hornfels - a pyroxene-rich rock with pods of calcite, surrounded by pink grossular garnet. Occasional zones of biotite hornfels.

Scheelite mineralisation is variable:
9.75 - 12.00 m Almost barren
12.00 - 15.00 m Occasional coarse patchy scheelite mineralisation.
15.00 - 18.55 m Low grade mineralisation with areas of fine disseminated mineralisation and areas of coarse, patchy scheelite.

Possible faults occur at:
9.90 - A thin (about 0.5 cm wide). joint which is filled with clay and pug material.
11.50 - 11.80 m Broken core and clay filled joints.
14.40 - 15.00 Broken core.

18.55 - 22.90 GARNET HORNFELS (Upper C-lens)

A massive grey rock with interstitial calcite visible. The rock is medium grained, with black andradite garnet, quartz, calcite and pyrite. High grade scheelite mineralisation, occurring as fine, disseminated material evenly distributed throughout.

Possible faults:
19.2 m About 3 cm of highly broken core.
21.40 - 21.50 Broken core.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 120/22

22.90 - 32.60 m PARTIALLY REPLACED LOWER C-LENS

A banded rock consisting of bands of pyroxene hornfels, biotite hornfels, garnet hornfels (grossularite and andradite) and some areas of marble. An overall low to medium grade of scheelite mineralisation occurring mainly in the garnet hornfels bands as fine grained, disseminated scheelite. The rock is barren at 25.8 - 28.5 m and also after 30.9 m

Broken core at 23.1 m, 23.7 m, 29.5 m and 31.0 - 31.1 m.

32.60 - 38.30 BANDED FOOTWALL BEDS

Well banded rock consisting of bands of pyroxene hornfels, biotite hornfels, marble and some garnet hornfels. Negligible mineralisation. Banding is between 38° and 90° to LCA. Small aplite dyke 35.3 - 35.5 m.

38.30 - 40.00 APLITE

Pink-coloured contaminated aplite with variable mafic mineral content. Some pyrite mineralisation. Patches of clean, white quartz throughout.

40.00 - 42.70 QUARTZ

Clean white quartz with large patches of green orange and yellow material (epidote?) which contain pyrite.

Broken core at 40.1 m, 41.7 m.

42.70 - 44.90 APLITE

Contaminated aplite - pink and green in colour with mafic minerals and pyrite.

44.90 - 47.80 GRANITE

Pink granite with fairly uniform matic mineral content. A yellow mineral is present between 45.8 and 46.2 m.

EOH 47.80 m

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 120/21

PLANNING

PROPOSER: S. G. Brown — DEPTH: 110 m

LOCATION: -75 m Cuddy off Main Decline

PURPOSE OF HOLE: To Test 'C' Pit Area

PROPOSED CO-ORDS: 220120.0 E 564038.0 N

INCLINATION: -83°

BEARING: 180° °GRID °MAG

TARGET: E N

DEPTH:

CHECKED BY: S. G. Brown — DATE: 24/9/79

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 184° 43' °GRID °MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 220120.8 E 564036.9 N

R.L. OF COLLAR: C-80.0

INCLINATION OF HOLE: -80° 33'

PICKED UP BY: R. Howman — DATE: 21/11/79

SUMMARY

LOGGED BY: T. Potter

RESULTS:

62 - 64 m	2 m	@	0.32%	0.01%
66 - 67 m	1 m	@	0.47%	0.01%
69 - 70 m	1 m	@	0.63%	0.01%
72 - 90 m	18 m	@	1.83%	0.06%

DRILLING

DATE COMMENCED: 25/9/79 DATE TERMINATED: 4/10/79

DRILLER/CONTRACTOR: ADD

CASING: SIZE:
DEPTH:

CORE: SIZE: 46TT
DEPTH: 119.60

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 119.60

REASON FOR TERMINATION:

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY: Surveyed to 119.60 multishot

WATER:

COMMENTS ON DRILLING CONDITIONS: Very good

PJH 1/2/80

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 120/21

Surveyed method: Multishot
Final depth: 119.60 m
Casing depth: 1.5 m

Depth surveyed to: 119.60 m
Date surveyed: 4/10/79
Surveyed by: L. DENBY
Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		S	W
10	192°	182°	9° 30'	-80° 30'	9.86	1.65	.06
13	194°	184°	9°	-81°	12.82	2.12	.09
22	188°	178°	9° 15'	-80° 45'	21.70	3.57	.04
34	183°	173°	9°	-81°	33.55	5.44	.19 E
46	187°	177°	9°	-81°	45.40	7.32	.29
58	186°	176°	9° 15'	-80° 45'	57.24	9.25	.42
70	186°	176°	9° 30'	-80° 30'	69.08	11.23	.56
79	186°	176°	9° 45'	-80° 15'	77.95	12.75	.67
88	187°	177°	9° 30'	-80° 30'	86.83	14.24	.75
97	186°	176°	9°	-81°	95.72	15.65	.85
109	186°	176°	9° 15'	-80°45 '	107.56	17.58	.98
119.60	182°	172°	9° 30'	-80° 30'	118.01	19.31	1.22

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 120/21

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 1.3	1.3	1.3	100
1.3 - 3.8	2.5	2.5	100
3.8 - 6.4	2.6	2.6	100
6.4 - 9.4	3.0	3.0	100
9.4 - 12.4	2.9	2.9	100
12.4 - 15.3	3.0	3.0	100
15.3 - 18.3	3.0	3.0	100
18.3 - 19.5	1.2	1.2	100
19.5 - 21.5	2.0	2.0	100
21.5 - 24.5	3.0	3.0	100
24.5 - 27.5	3.0	3.0	100
27.5 - 30.5	3.0	3.0	100
30.5 - 33.2	2.7	2.7	100
33.2 - 36.2	3.0	3.0	100
36.2 - 39.2	3.0	3.0	100
39.2 - 42.2	3.0	3.0	100
42.2 - 45.2	3.0	3.0	100
45.2 - 47.3	2.1	2.1	100
47.3 - 49.6	2.3	2.3	100
49.6 - 51.0	1.4	1.4	100
51.0 - 54.0	3.0	3.0	100
54.0 - 57.0	3.0	3.0	100
57.0 - 60.0	3.0	3.0	100
60.0 - 64.0	3.0	3.0	100
63.0 - 66.0	3.0	3.0	100
66.0 - 69.0	3.0	3.0	100
69.0 - 72.0	3.0	3.0	100
72.0 - 75.0	3.0	3.0	100
75.0 - 78.0	3.0	3.0	100
78.0 - 81.0	3.0	3.0	100
81.0 - 83.2	2.2	2.2	100
83.2 - 86.0	2.8	2.8	100
86.0 - 89.0	3.0	3.0	100
89.0 - 91.4	2.4	2.4	100
91.4 - 94.1	2.7	2.7	100
94.1 - 97.1	3.0	3.0	100
97.1 - 100.1	3.0	3.0	100
100.1 - 103.1	3.0	3.0	100
103.1 - 106.1	3.0	3.0	100
106.1 - 109.1	3.0	3.0	100
109.1 - 112.1	3.0	3.0	100
112.1 - 115.1	3.0	3.0	100
115.1 - 118.1	3.0	3.0	100
118.1 - 119.6	1.5	1.5	100
EOH 119.6			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 120/21

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)
0.4 - 14.2	Bh						91,0	
14.2 - 21.0	Bh/ph/ch						67,6	
21.0 - 31.0	ch						90.5	
31.0 - 32.6	ch/ph						65.6	
32.6 - 39.4	ch						90.4	
39.4 - 39.7	ph						50,0	
39.7 - 40.3	bh						33,3	
40.3 - 60.9	bh						67,5	
60.9 - 72.4	pgh						85,2	
72.4 - 82.0	gh						83.1	
82.0 - 83.25	gph						33,6	
83.25 - 84.27	m/m						93.1	
84.27 - 90.2	Lower C						71.3	
90.2 - 92.6	bh						41.7	
92.6 - 98.2	bh/ph						32,2	
98.2 - 102.4	ch						72.6	
102.4 - 11.6	bh						76.1	
111.6 - 119.6	Low Volc						77,5	

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) += $\frac{\text{Length Core} > 10 \text{ cm}}{\text{Length Drilled}}$
3. Core size.

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D120/21

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
D 11484	20	21	1.0	1.0	0.29	0.02		
85	21	22	"	"	<0.01	0.01		
86	61	62	"	"	0.13	<0.01		
87	62	63	"	"	0.30	0.01		
88	63	64	"	"	0.34	0.01		
89	64	65	"	"	0.14	0.01		
90	65	66	"	"	0.03	<0.01		
91	66	67	"	"	0.47	0.01		
92	67	68	"	"	0.16	0.01		
93	68	69	"	"	0.17	<0.01		
94	69	70	"	"	0.63	0.01		
95	70	71	"	"	0.09	<0.01		
96	71	72	"	"	0.16	0.01		
97	72	73	"	"	0.71	0.01		
98	73	74	"	"	0.72	<0.01		
99	74	75	"	"	1.76	0.03		
500	75	76	"	"	1.44	0.02		
01	76	77	"	"	1.75	0.03		
02	77	78	"	"	1.97	0.06		
03	78	79	"	"	1.03	0.04		
04	79	80	"	"	0.98	0.02		
05	80	81	"	"	1.25	0.02		
06	81	82	"	"	1.82	0.04		
07	82	83	"	"	9.13	0.16		
08	83	84	"	"	0.05	0.02		
09	84	85	"	"	1.09	0.02		
10	85	86	"	"	1.92	0.04		
11	86	87	"	"	24.3	0.35		
12	87	88	"	"	12.4	0.19		
13	88	89	"	"	6.9	0.09		
89	89	90	"	"	0.47	0.01		
515	99	100	"	"	0.06	0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 120/21

0.0 - 0.4 m CEMENTITE

0.4 - 14.2 BIOTITE HORNFELS

Minor bedding. Dark in colour.

8.0 - 9.5 m Contains calcite infilled, cracks parallel to core axis.

14.2 - 39.7 B LENS

14.2 - 21.0 Interbedded sequence of biotite hornfels/pyroxene garnet/marble. 19.1 - 19.4 massive grossularite some quartz. Minor calcite veining which carry some andradite with minor mineralisation. 20.25 - 20.48 andradite - pyroxene - calcite with moderate mineralisation.

21.0 - 31.0 Marble - unreplaced, dark coloured, moderate bedded. Occasional calcite veins. 24.5 - 27.5 metamorphic spotting. Carrying very weak fine mineralisation. Bedding 80° to core axis at 28 m.

31.0 - 32.6 Marble - light coloured with about 20% grossularite and pyroxene no mineralisation.

32.6 - 39.4 Marble as for 21.0 - 31.0 m.

39.4 - 39.7 Pyroxene rich unit, no bedding, minor grossularite.

39.7 - 60.9 BIOTITE HORNFELS

39.7 - 40.3 Biotite hornfels with patchwork of white veins (not calcite or quartz).

40.3 - 43.8 Biotite hornfels with minor pyroxenite and grossularite. Partly well bedded and partly massive.

43.8 - 44.2 Zone showing pyroxene coarse grained biotite and calcite, very minor mineralisation. Indistinct boundaries. Possible fault??

44.2 - 60.9 Biotite hornfels weakly bedded with some areas of minor pyroxene.
Bedding 65° to core axis at 61 m

59.4 - 59.55 and 60.2 - 60.45 lightly broken zone - minor fault?

60.9 - 72.4 PYROXENE GARNET HORNFELS

Typical podded pyroxene garnet hornfels mineralisation - probably sub-ore.

72.4 - 82.0 UPPER C LENS

Andradite skarn. Uniform medium grained with very strong mineralisation.

82.0 - 83.25 GARNET - PYROXENE - HORNFELS

Moderately mineralised.

82.8 - 83.2 Crumbly sheared with calcite veining - shearing maybe 20° to core axis - fault zone.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 120/21

83.25 - 84.27 m MARBLE MARKER

Barren.

Bedding 40° to Core Axis of 83.25

84.27 - 90.2 LOWER C - BANDED SKARN

Weakly bedded garnet - pyroxene - hornfels strongly mineralised to 88.5 m 85.5 - 85.6 very coarse grained scheelite,

87.4 Bedding 55° to core axis
85.8 Chlorite shear zone?

90.2 - 91.6 BIOTITE HORNFELS

Very fine grained. Slightly bedded at 45° to core axis.

91.6 - 98.2 BIOTITE HORNFELS/PYROXENE HORNFELS

97.2 - 97.9 calcite, pyroxene with feldspar cyrstals - diffused aplite? interbeds of pyroxene hornfels/biotite hornfels show discontinuous biotite beds,
Bedding 60° to core axis at 95,5 m
Bedding 45° to core axis at 91,93 m
Minor broken material at 95,5 m

98.2 - 102.4 MARBLE

Barren except for weak mineralisation between 99 - 100.0 m vague bedding. Looks more like B lens than C lens marble,

102.4 - 111.6 BIOTITE HORNFELS

Very fine grained, vague bedding with occasional minor pyroxene joint pattern 45 - 60° to core axis,

111.6 - 119.6 LOWER VOLCANICS

111.6 - 11,7 shows 10% felspar crystals,
117.3 - 177.8 crumbly chloritised and zone - no shearing, possible fault zone,

EOH 119,6 m

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 120/20

PLANNING

Proposer: A. Younger **Depth:** 40cm

Location: -150 m R.L. Drill Drive

Purpose of hole: To further define C lens pit.

Co-ordinates: 220120 **E** 563957 **N**

Inclination: -14° **Magnetic:**

Bearing: 0° **Grid** **Target depth:**

Target: **E** **N**

Approved by: **Date:**

SURVEY

Survey Co-ords: **E** **N**

Survey bearing 355°40' **Grid** **Magnetic:**

Surveyed in by: **Date:**

Actual Co-ords: 220122.54 **E** 563953.41 **N**

R.L. of collar: W-146.96 **Inclination of hole:** -12°50'

Picked up by: R.J.H. **Date:** 24-5-78

SUMMARY

Logged by: A. Younger

Results:

DRILLING

Driller/Contractor: A.D.D.

Date Commenced: 23-5-78 **Date Terminated:**

Casing: **Size :**

Depth :

Core: **Size :** 46TT

Depth : 37.1 m

Wedge Runoff:

Wedge Placed: Nil **Depth:**

Proposed by: **Approved by:**

Reason:

Extension:

Final depth: 37.1 m

Reason for termination: Determined position of C lens as required

Condition of hole on completion:

Casing:

Cemented: Open

Bore hole survey: L. Denby

Water: Normal water return

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 120/20

Survey method: Singleshot
Final depth: 37.1
Casing depth: Nil

Depth surveyed to: 37.1
Date surveyed: 24-5-78
Surveyed by: L. Denby
Checked by:

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	W
4.0	357	347	77.25	-12.75	0.88	3.80	0.88
37.1	356	346	76.45	-13.25	8.47	35.06	8.67

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/20

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	2.8	93
3.0 - 4.7	1.7	1.7	100
4.7 - 7.1	2.9	2.95	101
7.6 - 10.6	3.0	3.0	100
10.6 - 13.6	3.0	2.95	98
13.6 - 16.0	2.4	2.5	104
16.0 - 17.4	1.4	1.35	96
17.4 - 17.5	0.1	0.1	100
17.5 - 19.4	1.9	1.8	94
19.4 - 21.2	1.8	1.85	102
21.2 - 23.0	1.8	1.9	105
23.0 - 26.0	3.0	3.0	100
26.0 - 28.1	2.1	2.0	95
28.1 - 31.1	3.0	2.95	98
31.1 - 34.1	3.0	2.95	98
34.1 - 37.1	3.0	2.9	96
			98.3
		Recoverys	98%

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

DDH No. D 120/20

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 - 21.95	Biotite Hornfels	5	40-70	carb, chl, minor sulph.	15	100	77	
21.95 - 37.1	Pyroxene Garnet Hornfels	6	40-60	carb, chl, minor clay.	-	98	77	

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.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/20

0.0 - 21.95 **BIOTITE HORNFELS**

Typical fine grained grey biotite hornfels. Except for the first 3.4 m the unit is very uniform and homogeneous. From 0.0 - 3.4 m it seems to be coarser grained than is normal.

Carbonate veining is quite common generally at 70° to LCA.

F/M average 5 at 40°-70° to the LCA. Minor pyroxene alteration areas occur eg 11.6 and 11.9 m. Minor quartz veining 12.2 m and 13.7 m.

Broken zones occur:-

0.4 - 0.5 m,
3.7 - 3.8 m,
17.4 - 17.5 m,
19.3 - 19.4 m and
21.2 - 21.3 m.

At 16.2 m a healed breccia zone occurs, and the broken zone 19.3 - 19.4 m has some clay possibly indicating a fault.

21.95 - 37.1 m **PYROXENE GARNET HORNFELS**

This distinctive podded unit seems to be transitioned with the above biotite hornfels. Though podded the biotite hornfels matrix continues to about 28.5 m, where the pyroxene matrix is dominant.

F/M average about 6 mostly at 40°-60° to the LCA.

Broken zones occur:-

28.0 - 28.1 m and
35.7 - 35.8 m.

The zone 35.7 - 35.8 m has calcite and clay fill indicating fault movement.

Mineralization is low grade, patchy and only occurs in the last 6 metres of the hole.

EOH 37.1 m.

GEOPEKO DIVISION - King Island

LOG OF D.D.H. No. D 120/19

PLANNING

Proposer: ...A. Younger..... Depth: ...50 m.....

Location: ...-150 m, R.L. Drill Drive off M14.....

.....

Purpose of Hole: Test C lens (Pit) adjacent to Swan Fault.....

Co-ords: ..220120..... E ..563957..... N

Inclination: 0°.....

Bearing: ....0°.....°Grid .....°Mag

Target: ..... E ..... N

Depth: .....

Approved by: ..... Date: .....

SURVEY

Survey Co-ords: ..... E ..... N

Surveyed Bearing: ..355°30'.....°Grid .....°Mag

Surveyed in by: ..... Date .....

Actual Co-ords: ..220122.66..... E ..563953.54..... N

R.L. of Collar: ..W-146.52.....

Inclination of Hole: ..-0°00'.....

Picked up By: ....R.J.H..... Date ..10-5-1978.....

SUMMARY

Logged By: ..A. Younger..... Date .....

Results: ..38-41 m, 3 m @ 0.52% WO_3.....

.....

.....

.....

DRILLING

Date Commenced: ..9-5-1978..... Date Terminated..12-5-1978.....

Driller/Contractor ..A.D.D.....

Casing:	Size :	Nil			
	Depth :				
Core:	Size :	46TT			
	Depth :	41.3 m			

Wedge Runoff:

Wedge placed: Depth

Proposed by: Approved by

Reason

Extension:

Final Depth: 41.3 m

Reason for Termination: Intersected pgh (Pit) giving position of C lens.

Condition of hole on completion:

Casing; Nil

Cemented:

Bore hole survey:

Water: Normal

Comments on Drilling Conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 120/19

Survey method: Singleshot Camera
Final depth: 41.3 m
Casing depth: Nil

Depth surveyed to: 41.30m
Date surveyed 9-5-78
Surveyed by: L. Denby
Checked by: A. Younger

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	W
11.3	359	349	89.75°	-0.25°	0.05	11.09	2.16
41.3	358	348	87.75	-0.25	0.18	40.43	8.40

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/19

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.1	3.1	2.9	93
3.1 - 4.5	1.4	1.4	100
4.5 - 5.7	1.2	1.25	104
5.7 - 6.3	0.6	0.6	100
6.3 - 9.0	2.7	2.75	101
9.0 - 12.0	3.0	2.9	96
12.0 - 15.0	3.0	3.0	100
15.0 - 15.7	0.7	0.85	121
15.7 - 17.3	1.6	1.6	100
17.3 - 19.5	2.2	2.2	100
19.5 - 22.3	2.8	2.85	101
22.3 - 25.3	3.0	3.0	100
25.3 - 28.3	3.0	3.0	100
28.3 - 31.3	3.0	2.9	96
31.3 - 32.3	1.0	1.0	100
32.3 - 33.0	0.7	0.9	128
33.0 - 33.7	0.7	0.7	100
33.7 - 34.1	0.4	0.35	87
34.1 - 34.5	0.4	0.55	137
34.5 - 36.0	1.5	1.2	80
36.0 - 36.7	0.6	0.8	133
36.7 - 38.3	1.6	1.8	112
38.3 - 41.3	3.0	2.9	96
EOH 106.07%			

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 120/19

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
D 8040	37	38	1.0	1.0	0.11	<0.01		
41	38	39	"	"	0.50	<0.01		
42	39	40	"	"	0.73	0.01		
43	40	41	"	"	0.32	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

DDH No. D 120/19

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC-TURES /m	JOINT ANGLE (WRT L.A.O.C)	JOINT FILLING	BEDDING ANGLE (W.R.T. L.A.O.C.)	% CORE RECO-VERY	R.Q.D.	REMARKS (WEATHERING)
0.0 - 1.15m	Lower Volcanics	12		minor carb	-	100	39	
1.15 - 36.5 m	Bh	7	20°-60°	clay,chl,carb	15	100	72	
	1.3 - 6.3 m Probably Swan Fault							
	33.85 Unknown Major Fault							
36.5 - 41.3	Pyroxene garnet hornfels	4	70°-80°	Minor Clay Chl.	-	100	79	

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/19

0.0 - 1.15 LOWER VOLCANICS?

Slightly foliated and finely spotted unit which seems to have a transitional contact with the underlying biotite hornfels.

The spotting or foliation is by biotite and is not well developed, but appears to be at about 80° to the LCA.

It could be a slightly different phase of the biotite hornfels.

F/M are about 12 to the LCA.

1.15 - 36.5 m BIOTITE HORNFELS

Typical fine grained, mostly grey brown biotite hornfels with some spotted zones (19.4 - 19.9 m, 27.5 - 28.0 m) and much tonal colour variation.

Relic bedding traces at about 13 m indicate a dip of about 15° to the LCA.

F/M average 7 at about 20°-60° to the LCA.

There are three major fault or fracture zones which occur at:-

1.3 - 6.4 m,
15.8 - 17.3 m,
32.8 - 36.7 m, which has a clay pug zone of 0.2m at 33.85 m.

These zones consist of many broken, rubbly, chlorites; and some minor clayey; areas within these zones.

The zone 1.3 - 6.3 m is probably the Swan Fault.

36.5 - 41.3 PYROXENE GARNET HORNFELS

Fairly typical pyroxene garnet hornfels, beginning with a biotite hornfels matrix and pyroxene / grossular garnet rims on pods progressing through to a grossular / pyroxene matrix with andradite garnet rimming some pods.

Good but patchy mineralization occurs F/M average 4 at about 70°-80° to the LCA.

E.O.H.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. D 120/19

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	
8043	0.32	<0.01	11778	0.40		11779	0.39		11780	0.38		

GEOPEKO DIVISION - King Island

LOG OF D.D.H. No. D 120/18

PLANNING

Proposer: G. J. Buitor Depth: .....

Location: -150 m. R.L. Drill Drive

.....

Purpose of Hole: To test C lens mineralization

Co-ords: 220120 E E 563950 N

Inclination: -28°

Bearing: 0 °Grid °Mag

Target: ..... E ..... N

Depth: .....

Approved by: ..... Date: .....

SURVEY

Survey Co-ords: ..... E ..... N

Surveyed Bearing: 357° 20' °Grid °Mag

Surveyed in by: ..... Date .....

Actual Co-ords: 220122.71 E 563953.56 N

R.L. of Collar: F-147.44

Inclination of Hole: -28° 20'

Picked up By: R.J.H Date 8-5-78

SUMMARY

Logged By: A. Younger Date .....

Results: 13 - 16 m, 3 m @ 0.75% WO_3 Upper C lens

18 - 30 m, 12 m @ 0.8% WO_3 Upper C lens

49 - 54 m, 5 m @ 1.01% WO_3 BFB (m).

.....

DRILLING

Date Commenced: 3-5-1978 Date Terminated 16-5-1978

Driller/Contractor A.D.D.

Casing:	Size :	BQ			
	Depth :	1m			
Core:	Size :	46TT			
	Depth :	58.0			

Wedge Runoff:

Wedge placed: Nil Depth

Proposed by: Approved by

Reason .

Extension:

Final Depth: 58.00

Reason for Termination: Entered unmineralized bh/ph

Condition of hole on completion:

Casing; 1m

Cemented: Nil

Bore hole survey: L. Denby @ 8m, 28m, 58m

Water: Normal

Comments on Drilling Conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 120/18

Survey method: Singleshot Camera
Final depth: 58.00 m
Casing depth: Nil

Depth surveyed to: 58.00
Date surveyed 8-5-1978
Surveyed by: L. Denby
Checked by: A. Younger

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	W
8.00	359	349	-28		3.76	6.93	1.35
28.00	354	344	-28		-13.15	24.07	5.62
58.00	353	343	-28		-27.24	49.4	13.37

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/18

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.5	2.5	2.5	100
2.5 - 4.1	1.6	1.4	37
4.1 - 6.0	1.9	2.15	113
6.0 - 9.0	3.0	3.0	100
9.0 - 12.0	3.0	3.05	101
12.0 - 15.0	3.0	3.00	100
15.0 - 17.2	2.2	2.4	109
17.2 - 20.0	2.8	2.7	96
20.0 - 23.0	3.0	2.9	96
23.0 - 24.2	1.2	1.3	108
24.2 - 27.0	2.8	2.9	103
27.0 - 29.3	2.3	2.3	100
29.3 - 32.0	2.7	2.7	100
32.0 - 34.2	2.2	2.05	93
34.2 - 37.0	2,8	2.8	100
37.0 - 38.5	1.5	1.9	126
38.5 - 41.5	3.0	3.0	100
41.5 - 44.5	3.0	3.0	100
44.5 - 47.5	3.0	3.0	100
47.5 - 50.0	2.5	2.6	104
50.0 - 51.7	1.7	1.7	100
51.7 - 53.7	2.0	2.05	102
53.7 - 54.5	0.8	0.9	112
54.5 - 55.6	1.1	1.2	109
55.6 - 58.0	2.4	2.4	100
			102.21
			recovery = 100%

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 7603 120/18

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
D 7603	10	11	1.0	1.0	<0.01	<0.01		
4	11	12	"	"	0.12	0.01		
5	12	13	"	"	0.16	0.02		
6	13	14	"	"	0.58	0.04	3m @ 0.75% WO_3	
7	14	15	"	"	1.36	0.04		
8	15	16	"	"	0.33	0.01		
9	16	17	"	"	0.04	<0.01		
10	17	18	"	"	0.03	<0.01		
11	18	19	"	"	0.85	0.03		
12	19	20	"	"	0.65	0.01		
13	20	21	"	"	0.88	0.02		
14	21	22	"	"	1.62	0.05		
15	22	23	"	"	1.24	0.05	12m @ 0.8% WO_3	
16	23	24	"	"	0.86	0.04		
17	24	25	"	"	0.8	0.03		
18	25	26	"	"	0.47	0.02		
19	26	27	"	"	0.65	0.02		
20	27	28	"	"	0.69	0.02		
21	28	29	"	"	0.38	0.01		
22	29	30	"	"	0.51	0.01		
23	30	31	"	"	0.02	<0.01		
24	37	38	"	"	0.15	0.01		
25	38	39	"	"	0.35	0.02		
26	39	40	"	"	0.08	<0.01		
27	48	49	"	"	0.06	<0.01		
28	49	50	"	"	1.26	0.04		
29	50	51	"	"	0.3	0.01	5m @ 1.01% WO_3	
30	51	52	"	"	1.41	0.03		
31	52	53	"	"	0.5	0.01		
32	53	54	"	"	1.56	0.05		
33	54	55	"	"	0.22	<0.01		
34	55	56	"	"	0.08	<0.01		
35	56	57	"	"	0.12	<0.01		
36	57	58	"	"	0.89	0.02		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

DDH No. D 120/18

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 - 10.8	Bh	7	40-60°	Chl,clay	45°	100	66	
	Swan Fault 0.0 - 4.1 m							
10.8 - 29.9	Upper C lens	6	50-40°	Clay,carb		100	79	
29.9 - 36.3	Marble marker Bh/Ph/Ch/Gh	5	30-80°	Chl,carb,clay	50-60°	100	84	
36.3 - 40.5	Banded foot-wall beds (min)	9	50-70°	Chl, carb	30°-35°	100	65	
40.5 - 47.25	Lower Vol?	4	60-80°	Chl,	Foliation 15-20°	100	96	
47.25 - 55.05	BFB (m)	7	40-60°	Chl, clay	50-60°	100	83	
55.05 - 58	Bh/Ph	6	40-50°	Chl,clay	40-50°	100	84	

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/18

0.0 - 10.8 m

BIOTITE HORNFELS

Grey brown biotite hornfels with minor pyroxene hornfels zones (3.0m, 8.0 m).

Much carbonate veining with preferred orientation at 45° to LCA and may represent relic bedding.

Zone from 5.95 - 8.15 m has a fine spotted nature F/M average 7 at about 40-60° to the LCA. Several broken zones occur:-

0.0 - 1.1 m
2.2 - 2.5 m
2.8 - 3.3 m
4.0 - 4.1 m

These probably represent the Swan Fault Zone as the core varies between breccia, rubble and sheared material.

10.8 - 29.9 m

MASSIVE SKARN - UPPER C LENS

The contact with the biotite hornfels is faulted at 35° to the LCA and filled with clay pug.

The unit is massive andradite garnet skarn with minor calcite and sulphides, except for the zones 10.8 - 12.0 m and 17.3 - 18.6 m where there is a large amount of pyroxene present. The zone 10.8 - 12.0 m also has a minor unit of biotite hornfels.

Sheared zones occur at 15.5 - 15.9 m and 28.1 - 29.2 m, there is also some brecciation.

F/M average 6 at about 50-90° to the LCA.

Mineralization is mainly finely disseminated throughout and mostly of high grade.

29.9 - 36.3 m

MARBLE MARKER

Mixed units of biotite hornfels, pyroxene hornfels and marble. The marble forming nearly 50% of whole spread across 3 units. Minor grossular garnet and traces of mineralization. A sheared and broken zone occurs 33.6 - 34.1 m within one of the biotite hornfels unit.

Overall F/M is 5 at about 30-80° to the LCA. Relic bedding is prominent in all units mostly at 50-60° to the LCA.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/18

36.3 - 40.5 m — BANDED FOOTWALL BEDS LOWER C LENS

Thinly laminated pyroxene hornfels and biotite hornfels interbedded with weakly mineralized grossular and andradite garnet skarn.

A peculiar pyroxene / grossular garnet unit occur 39.4 - 39.7 m, where fragments of grossular garnet skarn occur in a pyroxene ground mass. A sheared and weathered section occurs 38.0 - 38.2 m giving a major broken zone. F/M average 9 generally at about 50-70° to the LCA.

Relic bedding has an angle of about 30-35° to the LCA.

40.5 - 47.25 m — LOWER VOLCANICS?

Finely spotted homogeneous unit which seems conformable and does not appear to be a sediment. The fine spotting is probably biotite and forms a distinct foliation in the unit at about 15-20° to the LCA. The F/M averages about 4 generally at about 60-80° to the LCA.

47.25 - 55.05 m — BANDED FOOTWALL BEDS (MINERALIZED)

Laminated pyroxene hornfels, biotite hornfels and garnet hornfels; showing some contorted bedding. The garnet hornfels is about 50% grossular and 50% andradite garnet.

Bedding is mostly at about 50-60° to the LCA but does get down to 10° to the LCA.

Sulphides are relatively common as belbs and joint surface coatings.

Mineralization is poor to medium grade and an unusually high proportion is coarse (+5 mm) grain size.

Broken and sheared zone and minor faults occur:-

49.0 - 49.1 m,
49.9 - 50.0 m,
53.6 - 53.7 m, and
53.8 - 53.95m where a slicken sided, carbonate filled fracture occurs.

F/M average about 7 mostly at 40-60° to the LCA.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/18

55.05 - 58.00 m

BIOTITE HORNFELS / PYROXENE HORNFELS

Mostly fine interbeds of biotite hornfels and pyroxene hornfels, but minor grossular garnet skarn units are present.

The mineralization in the garnet units is still unusually coarse but very patchy and subgrade in occurrance. Bedding is at 40°-50° to the LCA, with minor contorted bedding around 57.4 m.

F/M average about 6 at about 40-50° to the LCA.

The core is sheared and broken between 57.8 - 58.0 m indicating a probable fault.

E.O.H. 58.00 m.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. D 120/18

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	
7612	0.65	0.01	11718	0.54	< 0.01	11719	0.64		11720	0.62		
7622	0.51	0.01	11721	0.44	< 0.01	11722	0.49		11723	0.44		
7633	0.22	< 0.01	11724	0.40	< 0.01	11725	0.26		11726	0.19		

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. ~~Dolphin~~ 120/17

PLANNING

Proposer: M. Danielson **Depth:** 150

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

Purpose of hole: To test C lens south of Swan Fault.

Co-ordinates: 220 120 E 563950 N

Inclination: -44^{o} **Magnetic**

Bearing: 180 **Grid** **Target depth:**

Target: E N

Approved by: M.J.D. **Date:** 1/6/77

SURVEY

Survey Co-ords: - E - N

Survey bearing: 174^{o} 00' **Grid** **Magnetic**

Surveyed in by: **Date:**

Actual Co-ords: 220 121.87 E 563 947.39 N

R.L. of collar: F-148.0 **Inclination of hole:** -43^{o} 30'

Picked up by : R.J.H. **Date:** 10/6/77

SUMMARY

Logged by : M. DANIELSON

Results: C lens: 158-162m, 4m @ 0.87% WO_3
B lens: 92 - 95m, 3m @ 0.57% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 1/6/77 **Date terminated:** 24/6/77

Casing: Size : BXTT
Depth : 1m

Core: Size : 46TT
Depth : 176.2

Wedge Runoff:

Wedge placed: Nil **Depth:**

Proposed by : **Approved by:**

Reason:

Extension: Nil

Reason for termination: Hole in granite **Final depth:** 176.2

Condition of hole on completion:

Casing : 1m BXTT Remains

Cemented : No

Bore hole survey: Multishot to 118m ?

Water: Making water

Comments on drilling conditions: -

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. Dolphin 120/17

Survey method: Multishot camera

Final depth : 176.0

Casing depth : 1m

Depth surveyed to: 118.0

Date surveyed: 24/6/77

Surveyed by : L. Denby

Checked by : M.J.D.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	E
22	178	168	-46	-44	15.28	15.52	3.13
40	181	171	-45.75	-44.25	27.80	28.23	5.48
64	184	174	-45.25	-44.75	44.64	45.19	7.79
85	187	177	-45	-45	59.48	59.98	8.78
118	186	176	-44	-46	83.11	82.96	10.49

REMARKS: Hole caved at 118m

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. Dolphin 120/17

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.8	1.8	1.8	100
4.7	2.9	2.9	100
6.5	1.8	1.8	100
7.7	1.2	1.2	100
10.7	3.0	3.0	100
13.7	3.0	3.0	100
14.8	1.1	1.1	100
16.7	1.9	1.9	100
19.7	3.0	3.0	100
22.7	3.0	3.0	100
25.7	3.0	3.0	100
28.7	3.0	3.0	100
31.7	3.0	3.0	100
34.7	3.0	3.0	100
37.7	3.0	3.0	100
40.7	3.0	2.9	97
43.7	3.0	3.0	100
46.7	3.0	3.0	100
49.7	3.0	3.0	100
52.7	3.0	3.0	100
55.7	3.0	3.0	100
58.7	3.0	3.0	100
61.7	3.0	3.0	100
64.7	3.0	3.0	100
67.7	3.0	3.0	100
70.7	3.0	3.0	100
73.7	3.0	2.4	80
76.7	3.0	3.0	100
79.7	3.0	3.0	100
82.7	3.0	3.0	100
85.8	3.1	3.1	100
88.7	2.9	2.9	100
91.7	3.0	3.0	100
94.7	3.0	3.0	100
97.7	3.0	3.0	100
100.7	3.0	3.0	100
103.7	3.0	3.0	100
106.7	3.0	3.0	100
109.5	2.8	2.7	96
112.5	3.0	3.0	100
114.9	2.4	2.4	100
117.9	3.0	3.0	100
121.7	3.8	4.2	110

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/17

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
124.7	3.0	2.8	93
127.3	2.6	2.6	100
130.1	2.8	2.9	104
133.4	3.3	3.0	91
136.5	3.1	3.0	97
137.4	0.9	0.8	89
139.7	2.3	2.3	100
142.7	3.0	3.0	100
145.7	3.0	3.0	100
148.7	3.0	3.0	100
151.4	2.7	2.5	93
154.5	3.1	3.1	100
157.6	3.1	3.1	100
160.7	3.1	3.1	100
163.7	3.0	3.0	100
166.0	2.3	2.3	100
169.7	3.7	3.0	81
172.6	2.9	2.8	97
175.2	2.6	2.5	96
176.2	1.0	1.0	100
EOH			

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. Dolphin 120/17

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)
0 - 40.7	bh	5		clay minor carbonate		100	84	
40.7 - 67.7	bh ph ph	4		clay	49m: 40°	100	87	
67.7 - 79.7	ch	10		carbonate		95	64	
79.7 - 100.7	ch	4		carbonate		100	94	
100.7 - 127.3	bh	7		clay		100	77	Possible Fault 110.7 - 111.1 Partially re-cemented breccia, carbonate filled.
* 110.7m	water inflow							
127.7 - 142.7	pgh granite	4		clay		97	95	
142.7 - 169.7	pgh gh	5		clay		97	81	
168.9 - 169.7	is zone of core rather than bad		loss apparently due to core grinding away in barrel ground.					
169.7 - 176.2	granite	4		nil		97	87	
* 170.6	making water							

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) += $\frac{\text{length core >10 cms}}{\text{length drilled}}$ %
3. Core size. 46TT = 36mms dia.

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. Dolphin 120/17

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
D5814	64	65	1.0	1.0	0.27	0.02		
5	65	66	"	"	0.25	0.01		
6	66	67	"	"	< 0.01	< 0.01		
7	67	68	"	"	0.09	< 0.01		
8	68	69	"	"	0.30	0.01		
9	69	70	"	"	< 0.01	< 0.01		
20	70	71	"	"	< 0.01	< 0.01		
1	71	72	"	"	"	"		
2	72	73	"	0.55	"	"		
3	73	74	"	0.85	"	"		
4	74	75	"	1.0	"	"		
D5825	75	76	"	1.0	0.44	"		
D5826	85	86	1.0	1.0	< 0.01	< 0.01		
7	86	87	"	"	0.18	< 0.01		
D5828	91	92	"	"	< 0.01	< 0.01		
9	92	93	"	"	0.58	0.03		
30	93	94	"	"	0.54	0.02	B lens, 3m @ 0.57% WO_3	
1	94	95	"	"	0.58	0.02		
2	95	96	1.0	1.0	< 0.01	< 0.01		
3	96	97	"	"	0.09	"		
4	97	98	"	"	0.22	"		
5	98	99	"	"	0.30	"		
6	99	100	"	"	< 0.01	"		
D5837	100	101	"	"	< 0.01	"		
D5854	130	131	1.0	1.0	< 0.01	< 0.01		
5	131	132	"	"	< 0.01	< 0.01		
6	132	133	"	"	< 0.01	< 0.01		
D5861	143	144	1.0	1.0	< 0.01	< 0.01		
2	144	145	"	"	0.06	< 0.01		
3	145	146	"	"	0.03	< 0.01		
4	146	147	"	"	< 0.01	< 0.01		
D5865	147	148	"	"	< 0.01	< 0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. Dolphin 120/17

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
D5866	152	153	1.0	1.0	0.20	0.01		
7	153	154	"	"	0.26	0.01		
8	154	155	1.0	1.0	0.84	0.02		
9	155	156	"	"	0.26	< 0.01		
70	156	157	"	"	0.01	< 0.01		
1	157	158	"	"	< 0.01	< 0.01		
2	158	159	"	"	0.80	0.02	C lens, 4m @ 0.87% WO_3	
3	159	160	"	"	1.04	0.04		
4	160	161	"	"	0.95	0.04		
5	161	162	"	"	0.70	0.02		
6	162	163	"	"	0.20	< 0.01		
7	163	164	"	"	< 0.01	< 0.01		
8	164	165	"	"	0.05	0.01		
9	165	166	"	"	< 0.01	< 0.01		
80	166	167	"	"	0.27	0.01		
D5881	167	168	"	"	0.28	0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Dolphin 120/17

0.0 - 40.7 BIOTITE HORNFELS

Barren pale grey brown fine grained biotite hornfels. Minor carbonate veining but no apparent bedding.

This unit increases in pyroxene content towards base and contact with unit below is arbitrary.

40.7 - 58.7 BIOTITE PYROXENE HORNFELS

Essentially barren fine grained green pyroxene and black biotite hornfels unit typical of the hangingwall of B lens.

Scheelite on joint interface at 40.4m.

58.7 - 104.0 B LENS

Pyroxene hornfels 58.7 - 68.6

Dominantly a pale green pyroxene rich rock. Minor grossular garnet developed occasionally and minor disseminated scheelite below 64.5m.

Marble 68.6 - 104.0

Essentially a barren grey marble which is replaced to a grossular garnet skarn in places which carry minor disseminated scheelite.
e.g. 64.5 - 76.3
85.3 - 86.7
92.5 - 100.9

104.0 - 127.7 BIOTITE HORNFELS

Barren grey fine grained biotite hornfels.
123.9 - 124.3 aplite.

127.7 - 133.6 PYROXENE GARNET HORNFELS

Typcial pgh. Fine grained green diopside groundmass containing white carbonate pods up to 5cm dia.

Minor (sub oregrade) disseminated scheelite 130.1 - 133.0

133.6 - 139.2 GRANITE

Medium grained barren pale pink granite.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. DOLPHIN 120/17

139.2 - 157.0	PYROXENE GARNET HORNFELS

Mottled green ph and pale brown grossular garnet matrix containing moderate to abundant white carbonate pods up to 3cm dia.

Minor disseminated scheelite 143.4 - 147.3
and 152.4 - 157.0

Aplite 133.7 - 139.0
141.5 - 143.0

157.0 - 164.0	GARNET HORNFELS

Medium grained massive andradite skarn.

High grade disseminated scheelite 158.4 - 162.4m.

Unit becomes finer grained below 162.4 and sub oregrade.

164.0 - 166.3	GARNET PYROXENE HORNFELS

Fine grained pyroxene rich andradite garnet hornfels containing minor disseminated scheelite throughout.

166.3 - 176.2	GRANITE
EOH	

Pale pink fine to medium grained granite.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/17

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	HOLE No.
5868	0.84		6662	0.58		6663	0.78		6664	0.65		D 120/17
5874	0.95		6665	0.90		6666	1.07		6667	1.01		"

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. Dolphin 120/16

PLANNING

Proposer: M. Danielson **Depth:** 120m

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

Purpose of hole: C lens oreblocking

Co-ordinates: 220120 E 563950 N
Inclination: -54 **Magnetic:**
Bearing 180 Grid **Target Depth:**
Target: E N
Approved by: M.C. Rogers **Date:** 1/5/77

SURVEY

Survey Co-ords: - E N
Survey bearing: Grid **Magnetic:**
Surveyed in by: **Date:**
Actual Co-ords: 220121.75 E 563947.61 N
R.L. of Collar: F - 148.0 **Inclination of Hole:** -
Picked up by: R.J.H. **Date:** 10/6/77

SUMMARY

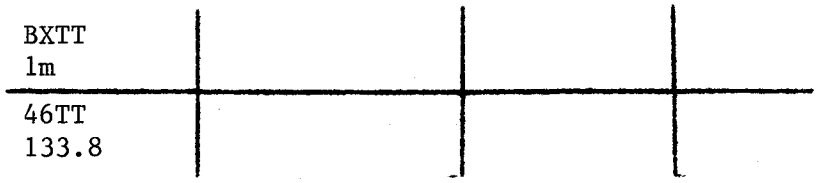
Logged by: M. Danielson
Results: C lens 115 - 122m , 7m @ 0.69% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 22/5/77 **Date terminated:** 1/6/77

Casing: **Size:** BXTT
Depth: 1m
Core: **Size:** 46TT
Depth: 133.8



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

Extension: Nil
Reason for termination: Hole in footwall hornfels.

Condition of hole on completion: **Final depth:** 133.8m
Casing: No
Cemented: Yes
Bore hole survey: Multishot to 133.0m
Water: Nil

Comments on drilling conditions: -

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D120/16

Survey method: Multishot camera
Final depth : 133.8
Casing depth : 1m

Depth surveyed to: 133.0
Date surveyed: 1/6/77
Surveyed by : L. Denby
Checked by : M.J.D.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	E
22	184	174	36	54	17.83	12.70	2.09
40	189	179	37.75	52.25	32.10	23.71	2.50
58	189	179	36.25	53.75	46.47	34.55	2.56
79	194	184	36.25	53.75	63.37	47.00	2.26
100	192	182	36.75	53.25	80.26	59.47	1.82
112	191.5	181.5	36	54	89.97	66.52	1.65
121	191	181	36	54	97.28	71.76	1.50
133	194	184	35.25	54.75	107.05	78.72	1.06

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D120/16

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.90	2.90	2.80	97
5.95	3.05	3.05	100
7.60	1,65	1.65	100
9.30	1.70	1.70	100
11.80	2.50	2.5	100
15.0	3.20	3.2	100
18.0	3.0	3.0	100
21.1	3.10	3.05	98
24.2	3.10	3.10	100
27.25	3.05	3.05	100
30.35	3.10	3.10	100
33.40	3.05	3.05	100
36.40	3.0	3.0	100
38.40	2.0	1.9	95
40.80	2.4	2.4	100
43.80	3.0	2.9	97
46.8	3.0	3.0	100
49.8	3.0	3.0	100
52.8	3.0	3.0	100
55.8	3.0	3.0	100
58.8	3.0	3.0	100
61.8	3.0	2.9	97
64.8	3.0	3.0	100
67.8	3.0	3.0	100
70.8	3.0	3.0	100
73.8	3.0	3.0	100
76.8	3.0	3.0	100
79.8	3.0	3.0	100
82.8	3.0	3.0	100
85.8	3.0	1.5	50
86.9	1.1	1.1	100
88.8	1.9	1.9	100
91.8	3.0	3.0	100
94.8	3.0	2.9	97
97.8	3.0	2.9	97
100.8	3.0	3.0	100
103.8	3.0	3.0	100
106.8	3.0	3.0	100
109.8	3.0	3.0	100
112.8	3.0	3.0	100
115.8	3.0	3.0	100
118.8	3.0	3.0	100
121.8	3.0	3.0	100
124.8	3.0	3.0	100
127.8	3.0	3.0	100
130.8	3.0	3.0	100
133.8	3.0	3.0	100

E.O.H.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D120/16

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 - 36.4	bh	0 -10m 10 10-36.4 5		clay, minor carbonate		100	89	
36.4 - 76.8	bph ch	36.4 - 44m 8 44 - 76.8m 4		carbonate		99	88	
76.8 - 97.8	tuffite ch	7		clay carbonate		92	59	Core loss 50% 82.8 - 85.8 Pug zone 86.3 - 86.9
97.8 - 133.8		4		clay carbonate minor pyrite	121m 65° 130m 70°	100	94	

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) += $\frac{\text{length core >10 cms}}{\text{length drilled}}$ %
3. Core size.

   46TT = 36mms dia.

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 120/16

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
D5784	42	43	1.0	1.0	0.21	0.01		
5	43	44	"	"	0.15	0.01		
6	44	45	"	"	0.18	0.01		
7	45	46	"	"	0.10	0.02		
8	46	47	"	"	0.43	0.01		
9	47	48	"	"	<0.01	<0.01		
90	48	49	"	"	0.86	0.02		
D5791	49	50	"	"	<0.01	<0.01		
D5792	68	69	"	"	0.10	<0.01		
3	69	70	"	"	0.53	0.01		
D5794	70	71	"	"	<0.01	<0.01		
D5751	100	101	1.0	1.0	<0.01	<0.01		
2	101	102	"	"	0.02	"		
3	102	103	"	"	0.26	"		
4	103	104	"	"	0.30	"		
5	104	105	"	"	0.47	"		
6	105	106	"	"	0.23	"		
7	106	107	"	"	0.25	0.01		
8	107	108	"	"	0.32	0.01		
9	108	109	"	"	0.19	0.01		
60	109	110	"	"	0.02	<0.01		
1	110	111	"	"	<0.01	"		
2	111	112	"	"	<0.01	"		
3	112	113	"	"	<0.01	"		
4	113	114	"	"	0.05	"		
5	114	115	"	"	0.18	"		
6	115	116	"	"	0.27	"		
7	116	117	"	"	0.46	0.01		
8	117	118	"	"	1,27	0.06	C lens	
9	118	119	"	"	1.41	0.04	115 - 122m @ 0.69% WO_3	
70	119	120	"	"	0.57	0.02		
71	120	121	"	"	0.49	0.02		
2	121	122	"	"	0.34	0.02		
3	122	123	"	"	0.13	<0.01		
4	123	124	"	"	0.23	0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 120/16

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
5	124	125	1.0	1.0	0.95	0.04		
6	125	126	"	"	<0.01	< 0.01		
7	126	127	"	"	0.59	0.02		
8	127	128	"	"	<0.01	< 0.01		
9	128	129	"	"	<0.01	< 0.01		
80	129	130	"	"	0.32	<0.01		
1	130	131	"	"	0.28	0.01		
2	131	132	"	"	0.38	0.01		
D5783	132	133	"	"	0.02	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/16

LAB.	KI.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	
D5788	0.43	0.01	D5959	0.46		D5960	0.58		D5961	0.49		
5759	0.19	0.01	5962	0.21		5963	0.24		5964	0.25		
5768	1.27	0.06	5965	1.13		5966	1.21		5967	1.18		
5782	0.38	0.01	5968	0.38		5969	0.47		5970	0.43		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D120/16

0.0 - 36.0 BIOTITE HORNFELS

Barren pale grey brown hangingwall biotite hornfels.

Unit becomes more actinolite rich below 27m.

36.0 - 98.6 B LENS

A mixture of rock types as follows:-

36.0 - 42.7 Biotite pyroxene hornfels

Mostly a barren green ph with minor grey black bh.

42.7 - 49.0 Garnet pyroxene hornfels

Dominantly green ph and pink grossular garnet rock containing minor disseminated scheelite.

49.0 - 76.8 Marble

Barren grey white marble containing minor scheelite between 68.8 - 70.2.
64.5 - 64.8.

76.8 - 87.0 Tuffite

Pale grey weakly fragmental spotted rock. No mineralisation 50% core loss between 82.8 - 85.8 and pug zone 86.6 - 86.9.
Quality of core is poor in this unit.

87.0 - 92.9 Marble

Dark grey barren marble. Contains abundant graphite (?) inclusions.

92.9 - 98.6 Tuffite

Barren grey green spotted rock, weakly fragmental.
Both upper and lower contact of this unit appears stratigraphic.

98.6 - 99.3 BIOTITE HORNFELS

Typical grey brown barren fine grained biotite hornfels.
Both upper and lower contacts are stratigraphic.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D120/16

99.3 - 111.9 PYROXENE GARNET HORNFELS

Very typical pgh unit. Green diopside groundmass containing white carbonate pods up to 4cm dia. rimmed by brown grossular garnet.

Low grade disseminated scheelite throughout.

111.9 - 118.8 GARNET HORNFELS

Typical medium to fine grained andradite garnet skarn. Unit is mostly barren to 115m but below contains medium grade finely disseminated scheelite.

This unit is massive and not banded at all.

118.8 - 133.8 MINERALISED BANDED FOOTWALL BEDS
E.O.H.

An interbedded white carbonate, green pyroxene and grey biotite hornfels containing minor andradite garnet interbeds containing disseminated scheelite.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. Dolphin 120/15

PLANNING

Proposer: M. Danielson **Depth:** 80m

Location: K9 -150m R.L.

Purpose of hole: C lens oreblocking south of Swan Fault

Co-ordinates: 220 120 E 563 950 N
Inclination: -72 **Magnetic:**
Bearing 180 Grid **Target Depth:**
Target: E N
Approved by: M.C. Rogers **Date:** 1/5/77

SURVEY

Survey Co-ords: E N
Survey bearing: Grid **Magnetic:**
Surveyed in by: **Date:**
Actual Co-ords: 220 121.74 E 563 948.10 N
R.L. of Collar: F-148.1 **Inclination of Hole:** -
Picked up by: R.J.H **Date:** 10/6/77

SUMMARY

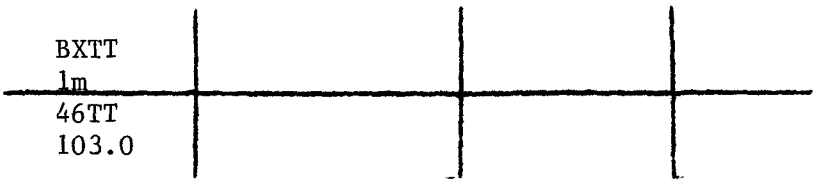
Logged by: M. Danielson
Results: C lens 79 - 89m 10m @ 0.64% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 14/5/77 **Date terminated:** 22/5/77

Casing: Size: BXTT
Depth: 1m
Core: Size: 46TT
Depth: 103.0



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

Extension: Nil
Reason for termination: Hole in footwall hornfels

Condition of hole on completion: **Final depth:** 103.0
Casing: Nil
Cemented: Yes
Bore hole survey: Multishot to 97.3m.
Water: Nil

Comments on drilling conditions: -

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D120/15

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.6	3.6	3.6	100
6.6	3.0	3.0	100
8.8	2.2	2.2	100
11.1	2.3	2.4	104
14.2	3.1	3.0	97
17.7	3.5	3.5	100
19.8	2.1	2.0	95
22.1	2.3	2.3	100
24.0	1.9	1.9	100
26.8	2.8	2.8	100
29.8	3.0	3.0	100
32.1	2.3	2.1	91
33.9	1.8	1.8	100
36.1	2.2	2.2	100
37.4	1.3	1.3	100
39.8	2.4	2.4	100
40.1	0.3	0.3	100
41.1	1.0	0.8	80
43.3	2.2	2.2	100
46.3	3.0	3.0	100
49.3	3.0	2.95	98
52.3	3.0	3.0	100
55.4	3.1	3.1	100
58.4	3.0	2.75	92
60.7	2.3	2.2	96
62.1	1.4	1.3	93
65.1	3.0	3.0	100
67.9	2.8	2.7	96
69.3	1.4	1.4	100
70.3	1.0	1.0	100
71.7	1.4	1.4	100
74.1	2.4	2.3	96
75.2	1.1	1.1	100
79.5	4.1	4.1	100
82.5	3.0	3.0	100
85.5	3.0	3.0	100
88.5	3.0	3.0	100
91.3	2.8	2.75	98
94.3	3.0	3.0	100
97.3	3.0	3.0	100
100.3	3.0	3.0	100
101.0	0.7	0.7	100
103.0	2.0	1.6	80
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D120/15

Survey method: Multishot camera
Final depth : 103.0m
Casing depth : 1m

Depth surveyed to: 97.3,
Date surveyed: 21/5/77
Surveyed by : L. Denby
Checked by : M.J.D.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	E
19	184	174	16.75	73.25	18.19	5.36	0.90
40	190	180	18	72	38.19	11.77	1.02
61	197	187	18	72	58.18	18.23	0.54
76	203	193	17.75	72.25	72.47	22.72	W 0.29
97	201	191	17.75	72.25	92.49	28.82	1.88

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D120/15

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 - 24.0	bh	8		clay minor carbonate	10m: 35° 17m: 15°	100	72	
24.0 - 36.1	bph	6		clay	31m: 45°	98	78	
36.1 - 60.7	B lens	5		carbonate	45m: 55° 50m: 45°	98	81	
60.7 - 71.7	bh	6		clay	63m: 45°	97	56	
71.7 - 79.5	bh	6		clay	-	99	65	
79.5 - 97.3	bfb	3		clay	85m: 80°	100	90	
97.3 - 103.0	IV aplite	8		clay	100.5m: 55° 91m: 70° 96m: 55°	93	54	

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) $+= \frac{\text{length core } >10 \text{ cms}}{\text{length drilled}}$ %
3. Core size.

   46TT = 36mms dia.

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 120/15

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
D5690	36	37	1.0	1.0	<0.01	<0.01		
1	37	38	"	"	<0.01	<0.01		
2	38	39	"	"	0.15	<0.01		
3	39	40	"	"	0.49	0.01		
4	40	41	"	"	<0.01	<0.01		
5	41	42	"	"	<0.01	<0.01		
6	42	43	"	"	<0.01	<0.01		
7	43	44	"	"	0.35	<0.01		
8	44	45	"	"	<0.01	<0.01		
9	45	46	"	"	<0.01	<0.01		
D5700	46	47	"	"	<0.01	<0.01		
D 5701	52	53	"	"	0.15	<0.01		
2	53	54	"	"	0.05	<0.01		
3	54	55	"	"	0.14	<0.01		
D 5726	77	78	"	"	<0.01	<0.01		
7	78	79	"	"	0.07	<0.01		
8	79	80	"	"	0.28	<0.01		
9	80	81	"	"	1.28	0.04		
30	81	82	"	"	0.21	<0.01		
1	82	83	"	"	0.16	<0.01	C lens 79 - 89m	
2	83	84	"	"	1.13	0.03	10m @ 0.64% WO_3	
3	84	85	"	"	0.52	0.01		
4	85	86	"	"	0.99	0.03		
5	86	87	"	"	1.23	0.04		
6	87	88	"	"	0.25	0.01		
7	88	89	"	"	0.40	0.01		
8	89	90	"	"	0.10	<0.01		
9	90	91	"	"	0.29	0.01		
40	91	92	"	"	0.07	<0.01		
1	92	93	"	"	<0.01	<0.01		
2	93	94	"	"	<0.01	<0.01		
D 5743	94	95	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/15

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	
D5692	0.15	0.01	D5950	0.14		D5951	0.19		D5952	0.17		
5729	1,28	0.04	5953	1.29		5954	1.46		5955	1.25		
5733	0.52	0.01	5956	0.57		5957	0.66		5958	0.59		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Dolphin 120/15

0 - 24.0 BIOTITE HORNFELS

Barren grey brown fine grained biotite hornfels. Bedding faintly visible in places.

24.0 - 36.1 BIOTITE PYROXENE HORNFELS

This unit is approximately 50% green ph, no mineralisation and represents the hangingwall unit of the B lens sequence.

36.1 - 62.8 B LENS

A variety of rock types as follows:

Garnet Pyroxene hornfels 36.1 - 40.1

Interbedded green ph and pale brown grossular garnet. Minor disseminated mineralisation 37.7 - 40.1.

Marble 40.1 - 54.1

Mostly a barren grey marble but does contain minor disseminated scheelite 43.6 - 46.5 and 52.8 - 54.4 where some garnet and pyroxene hornfels is developed.

Biotite Pyroxene Calcite Garnet Hornfels 54.1 - 62.8

This is a mottled variety of rock units. Very weak mineralisation 59.7 - 59.9 and 60.4 - 60.6m. Otherwise unit is barren.

62.8 - 78.1 BIOTITE HORNFELS

Barren grey brown biotite hornfels.

78.1 - 78.7 PYROXENE GARNET HORNFELS

Mostly a green pyroxene hornfels with minor andradite garnet developed. Some blotchy pale pink grossular garnet and occasional carbonate fragments approx 1cm dia.

Minor specks of coarse scheelite.

78.7 - 93.3 MINERALISED BANDED FOOTWALL BEDS

Typical interbedded bh, ch, gh and ph of the bfb unit. Variable low grade mineralisation to 93.3m.

Between 78.7 - 79.4 is a barren grey ch (massive) and may represent unreplaced Upper C lens.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Dolphin 120/15

93.3 - 98.4 UNMINERALISED BANDED FOOTWALL BEDS

Similar unit to that described above but no mineralisation.

98.4 - 100.00 LOWER METAVOLCANICS

Pale green grey massive mica flecked. No mineralisation.

100.0 - 100.75 UNMINERALISED BANDED FOOTWALL BEDS

As above.

100.75 - 103.0 APLITE
E.O.H.

Unmineralised fine grained pink aplite.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 120/14

PLANNING

Proposer: M. Danielson **Depth:** 40m

Location: K9 -150m R.L.

Purpose of hole: C lens oreblocking

Co-ordinates: 220 120 E 563 950 N
Inclination: - 54°
Bearing 360° Grid
Target: E N
Approved by: M.C. Rogers

Magnetic:
Target Depth:
Date: /4/77

SURVEY

Survey Co-ords: E N
Survey bearing: 355° 20' Grid
Surveyed in by:
Actual Co-ords: 220 120.19 E 563 950.87 N
R.L. of Collar: F - 148.23
Picked up by: R.J.H.

Magnetic:
Date:
Inclination of Hole: -51° 40'
Date: 10/5/77

SUMMARY

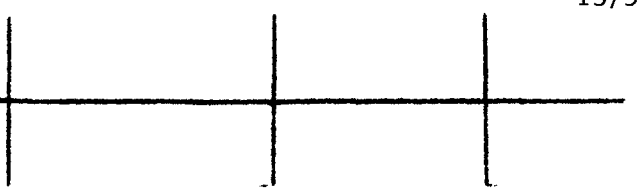
Logged by: M. Danielson
Results: C lens 7 - 9m, 2m @ 0.53% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 8/5/77 **Date terminated:** 13/5/77

Casing: Size: BxTT
Depth: 0.9
Core: Size: 46TT
Depth: 35.6



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

Extension: Nil
Reason for termination: Hole passed into unmineralised footwall hornfels

Condition of hole on completion: **Final depth:** 35.6
Casing: Nil
Cemented: Yes
Bore hole survey: Multishot to 35.6m
Water: No

Comments on drilling conditions: _

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 120/14

Survey method: Multishot camera
Final depth : 35.6
Casing depth : 0.9m

Depth surveyed to: 35.6
Date surveyed: 12/5/77
Surveyed by : L. Denby
Checked by : M.J.D.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
6	001	351	38.75	-51.25	4.70	3.72	0.35
15	357	347	38.5	-51.5	11.74	9.21	1.55
35.6	353	343	38	-52	27.87	21.60	4.86

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D120/14

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.7	1.7	1.7	100
3.8	2.1	2.05	98
6.0	2.2	2.2	100
9.6	3.6	3.4	94
12.6	3.0	3.0	100
15.6	3.0	3.0	100
18.6	3.0	3.0	100
20.6	2.0	2.0	100
24.10	3.5	3.5	100
25.10	1.0	1.0	100
29.10	4.0	4.0	100
30.10	1.0	1.0	100
31.5	1.4	1.4	100
32.6	1.1	1.1	100
33.10	0.5	0.5	100
35.60	2.5	2.5	100
EOH			

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 120/14

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 - 6	bh	10		clay minor carbonate		99	50	
6 - 35.6 E.O.H.	banded gh bh.ph	4		clay	10m: 60° 20m: 35° 28m: 50° 31m: 40° 35m: 0°	99	81	

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) += $\frac{\text{length core >10 cms}}{\text{length drilled}}$ %
3. Core size.
   46 TT 36mms dia.

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 120/14

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
D5672	6	7	1.0	1.0	< 0.01	< 0.01		
3	7	8	"	"	0.77	0.05		
4	8	9	"	0.9	0.28	0.01	7 - 9m	
5	9	10	"	0.9	0.20	< 0.01	2m @ 0.53% WO_3	
6	10	11	"	1.0	0.19	"		
7	11	12	"	"	< 0.01	"		
8	12	13	"	"	0.11	"		
9	13	14	"	"	0.38	"		
80	14	15	"	"	0.24	"	13 - 16m	
1	15	16	"	"	0.27	"	3m @ 0.30% WO_3	
2	16	17	"	"	< 0.01	"		
3	17	18	"	"	0.25	"		
4	18	19	"	"	0.14	"		
5	19	20	"	"	0.11	0.01		
6	20	21	"	"	< 0.01	< 0.01		
7	26	27	"	"	0.66	0.02		
8	27	28	"	"	0.15	< 0.01		
D5689	28	29	"	"	< 0.01	< 0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D120/14

LAB.	K.I.S.		LAB.			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	
D 5673	0.77	0.05	D5944	1.18		D5945	0.91		D5946	0.94		
5683	0.25	0.01	5947	0.24		5948	0.29		5949	0.28		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/14

0 - 6.0m BIOTITE HORNFELS

Barren grey brown fine grained hornfels. Minor green ph and unit is probably in immediate hangingwall of B lens.

Bedding is variable from 45^{o} L.A.O.C. at 2m to 0^{o} L.A.O.C. 2.5m and 4m.

Between 5.8 - 6.1 core is weakly brecciated, clay recemented and some montmorillonite on fracture surfaces. Interpreted as fault zone.

6.0 - 27.8m BANDED GARNET HORNFELS

Very weakly mineralised interbedded garnet hornfels, pyroxene and grossular hornfels. Minor bh/ph between 22 - 25m.

Bedding is clearly apparent and unit is considered as lower C lens.

Grossular garnet content increases below 15m and unit approaches banded footwall beds.

27.8 - 31.1 LOWER METAVOLCANICS

Pale green barren rock with abundant mica flecks vaguely lineated.

Unit has some resemblance to lower metavolcanics.

31.1 - 35.6m BANDED BIOTITE ACTINOLITE HORNFELS
E.O.H.

Barren thinly bedded brown grey hornfels.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 120/13

PLANNING

Proposer: M. Danielson — **Depth:** 55m

Location: K 9 -150m R.L.

Purpose of hole: C lens oreblocking

Co-ordinates: 220120 E 563950 N
Inclination: -83 Magnetic:
Bearing 360 Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 1/5/77

SURVEY

Survey Co-ords: E N
Survey bearing: 1° 50' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 220120.24 E 563950.14 N
R.L. of Collar: F - 148.2 Inclination of Hole: -80° 20'
Picked up by: R.J.H. Date: 2/6/77

SUMMARY

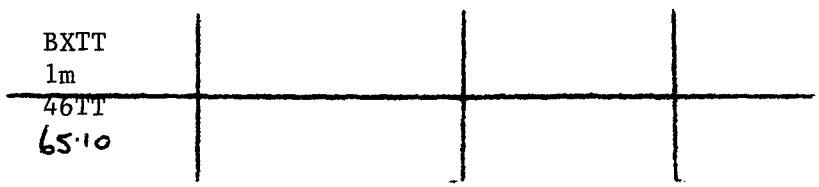
Logged by: M. Danielson
Results: No significant mineralisation.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 26/4/77 Date terminated: 8/5/77

Casing: Size: BXTT
Depth: 1m
Core: Size: ~~46TT~~
Depth: 65.10



Wedge Runoff:
Wedge placed: Nil Depth:
Proposed by: Approved by:
Reason:
Extension: Nil
Reason for termination: Hole in footwall hornfels.

Condition of hole on completion: Final depth: 65.10m
Casing: Nil
Cemented: Yes
Bore hole survey: Multishot to 63.5m
Water: Nil

Comments on drilling conditions: -

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 120/13

Survey method: Multishot Camera
Final depth : 65.10m
Casing depth : 0.6m

Depth surveyed to: 63.5m
Date surveyed: 12/5/77
Surveyed by : L. Denby
Checked by : M.J.D.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
12	004	354	9.75	-80.25	11.84	1.96	0.15
30	358	348	9.5	-80.5	29.57	5.00	0.65
42	355	345	9.25	-80.75	41.41	6.87	1.10
51	353	343	9	-81	50.29	8.24	1.50
63.5	344	334	9	-81	62.63	10.03	2.27

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/13

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 0.6	0.60	0.4	67
2.10	1.5	1.6	107
5.10	3.0	3.0	100
8.10	3.0	2.9	97
11.10	3.0	2.75	92
14.10	3.0	3.0	100
17.10	3.0	3.0	100
20.0	2.9	2.9	100
22.6	2.6	2.6	100
24.6	2.0	2.1	105
27.6	3.0	3.0	100
30.6	3.0	3.0	100
33.6	3.0	3.0	100
36.40	2.8	2.8	100
39.40	3.0	3.0	100
42.50	3.1	2.7	87
45.50	3.0	2.9	97
47.60	2.1	2.1	100
50.10	2.5	2.5	100
53.10	3.0	3.0	100
56.10	3.0	3.0	100
59.10	3.0	3.0	100
61.0	2.0	1.8	90
63.6	2.6	2.6	100
65.10	1.5	1.5	100
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 120/13

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 - 11.10	bh	5		clay		96	73	
10.8 - 11.1	SWAN Fault							
11.10 - 39.4	Banded gh bfb	4		clay carbonate	15m: 55° 17m: 55° 23m: 40°	100	91	
39.4 - 45.5	bah	+10		clay minor pyrite		92	34	
45.5 - 65.10	bah bh/ph	4		clay	64m: 50°	99	92	

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) += $\frac{\text{length core >10 cms}}{\text{length drilled}}$ %
3. Core size.
   46TT = 36mm dia.

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 120/13

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
D 5650	11	12	1.0	1,0	<0.01	<0.01		
1	12	13	"	"	0.15	"		
2	13	14	"	"	<0.01	"		
3	14	15	"	"	<0.01	"		
4	15	16	"	"	<0.01	"		
5	16	17	"	"	<0.01	"		
6	17	18	"	"	0.03	"		
7	18	19	"	"	0.05	"		
8	19	20	"	"	0.14	"		
9	25	26	"	"	<0.01	"		
60	26	27	"	"	0.13	"		
1	32	33	"	"	0.20	"		
2	33	34	"	"	<0.01	"		
3	34	35	"	"	<0.01	"		
4	35	36	"	"	<0.01	"		
D 5665	36	37	"	"	<0.01	"		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/13

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	
D5650	0.15	0.01	D5938	< 0.01		D5939	0.01		D5940	<0.01		
5661	0.21	0.01	5941	0.18		5942	0.25		5943	0.22		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D120/13

0 - 10.8	BIOTITE HORNFELS
	Barren grey brown bh with minor green ph (less than 10% of rock) and this unit is probably in immediate hangingwall of B lens.
10.8 - 11.1	SWAN [redacted] FAULT
	Broken core, slickensides or fracture surfaces.
11.1 - 20.0	BANDED GARNET HORNFELS
	Very weakly mineralised interbedded andradite garnet, green ph and pale white pink grossular garnet .
20.0 - 39.0	BANDED FOOTWALL BEDS
	Not typical bfb but is strongly ph rich, only very weakly mineralised and bedding is not as prominent as in usual footwall hornfels sequences.
39.0 - 63.0	BIOTITE ACTINOLITE HORNFELS
	Pale grey whitish brown hornfels. Bedding is not prominent. No mineralisation. Spotted texture 57 - 59m.
63.0 - 65.10 E.O.H.	BIOTITE PYROXENE HORNFELS
	Thinly bedded grey-black and green hornfels. Bedding prominent. No mineralisation.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D120/12

PLANNING

Proposer: M.J. Danielson. Depth:

Location: Junction of -75m X-cut. and B lens P.16.

Purpose of hole: B lens oreblocking.

Co-ordinates: 220123 E 564110 N

Inclination: +75° Magnetic

Bearing: 360° Grid Target depth:

Target: E N

Approved by: M.C. Rogers. Date: 15/4/75

SURVEY

Survey Co-ords: E N

Survey bearing: Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 220123.9 E 564113.3 N

R.L. of collar: -73.7 Inclination of hole:

Picked up by : R.J.H. Date: 2/5/75

SUMMARY

Logged by : M.J. Danielson.

Results: **B lens 23 - 25m 2m @ 0.37% WO_3**

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 23/4/75 Date terminated: 2/5/75

Casing:	Size :	NIL
	Depth :	
Core:	Size :	A.17
	Depth :	41.45

Wedge Runoff:

Wedge placed: NIL Depth:

Proposed by : Approved by:

Reason:

Extension: NIL

Reason for termination: Hole passed beyond B lens sequence. Final depth: 41.45m

Condition of hole on completion:

Casing : NIL

Cemented : No

Bore hole survey: Surveyed to 15.24m.

Water: NIL.

Comments on drilling conditions:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 120/12

Surveyed method: Multishot camera
Final depth: 41.45 m
Casing depth: Nil

Depth surveyed to: 15.24 m
Date surveyed: 2/5/75
Surveyed by: G. L. Buckland
Checked by: M. J. Danielson

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		E	N
15.24	009°	359°	+15°	+75°	+14.72	-	-

REMARKS: Hole was only surveyed to 15.24 m to check bearing.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 120/12

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 - 9.14m	bh, bh/ph	4		clay,	6m:65°	98	70	
9.14 - 18.29	ph, ch gph	5		clay & carbonate		57	25	bad ground: 14 - 17m. Note: significant core loss.
18.29 - 24.38m	ch	4		carbonate		99	66	
24.38 - 41.45	gph, bh/ph	6		clay & carbonate.	31m:60° 37m:70°	96	64	

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length ~~recovered~~ DRILLED}}$ %
3. Core size. A.17 0 - 41.45m (32 mms. diameter).

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D120/12

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
D3661	13	15	2.0	0.72	0.12	< 0.01				
2	15	18	3.0	1.40	0.12	< 0.01				
3	18	19	1.0	1.0	0.01	< 0.01				
4	22	23	1.0	1.0	0.01	< 0.01				
5	23	24	1.0	1.0	0.38	< 0.01				B lens 2m
6	24	25	"	"	0.37	0.01				@ 0.37% WO_3
7	25	26	"	0.76	0.01	0.01				
8	26	27	"	0.70	0.11	0.02				
9	27	28	"	1.0	0.61	0.04				
D3670	28	29	1.0	1.0	0.01	< 0.01				

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D120/12

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	
D 3665	0.38	<0.01	D 3878	0.37	< 0.01	D 3879	0.50		D 3880	0.53		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D120/12

0 - 5.1m	BIOTITE HORNFELS Barren fine grained grey brown biotite hornfels.
B LENS	
5.1 - 7.5m	Banded biotite pyroxene hornfels Barren banded grey and green rock. Bedding: 6m 70° L.A.O.C.
7.5 - 12.0m	Pyroxene hornfels Mostly a medium grained mottled green rock similar to the unit described as tuffite. No mineralization.
12.0 - 13.5m	Marble Barren grey ch.
13.5 - 17.5m	Garnet pyroxene hornfels Pyroxene and grossular garnet rich skarn. Some free MoS_2. Considerable core loss in this interval. Very weak mineralization 15 - 18m.
17.5 - 24.0m	Marble Barren grey ch.
24.0 - 27.4m	Pyroxene hornfels Very weakly mineralised green ph and weak grossular skarn developed.
27.4 - 30.0m	Tuffite (?) Pale green brown medium grained hornfels. No mineralization.
30.0 - 33.6m	Biotite garnet pyroxene hornfels Mostly a barren grey bh but minor interbeds of grossular and pyroxene rich skarn. Bedding 31m 60° L.A.O.C.
33.6m - 41.45m	Biotite pyroxene hornfels Barren grey biotite hornfels with occasional interbeds of green ph. No mineralization. Probably represents uppermost horizon of B lens.
41.45m E.O.H.	

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No.D 120/11

PLANNING

Proposer: M.J. Danielson — Depth: 35m.

Location: Junction of the -75m cross-cut and B lens drive.

Purpose of hole: Exploration of B lens.

Co-ordinates: 220125 E 564110 N

Inclination: +45 — Magnetic

Bearing: 180° — Grid — Target depth:

Target: E N

Approved by: M.C.Rogers. — Date: 1/4/75

SURVEY

Survey Co-ords: E N

Survey bearing: 179°10' — Grid — Magnetic

Surveyed in by: — Date:

Actual Co-ords: 220123.3 E 564102.8 N

R.L. of collar: -74.9 — Inclination of hole: 43°20'

Picked up by : R.J.H. — Date: 23/4/75

SUMMARY

Logged by :M.J. Danielson.

Results: No assays taken.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 18/4/75 — Date terminated: 2/5/75

Casing:	Size :	NIL			
	Depth :				
Core:	Size :	A17			
	Depth :	28.04			

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: 28.04

Condition of hole on completion:

Casing : NIL

Cemented : No.

Bore hole survey: Surveyed to 15.24m

Water: NIL.

Comments on drilling conditions:

Considerable core loss.

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 120/11

Survey method : Multishot camera.

Final depth : 28.04m

Casing depth : NIL

Depth surveyed to : 15.24m

Date surveyed : 2/5/75

Surveyed by : G.L. Buckland

Checked by : M.J. Danielson.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		E	N
15.24	178°	169°	+47°	+43°	+10.39	Not calculated.	

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 120/11

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 - 9.75	bh	8		clay minor pyrite		87	49	Considerable core loss throughout.
9.75 - 20.42	ph gph	6		clay minor carbonate.		87	42	
20.42 - 28.04	bh	+15		clay		83	17	Broken core throughout.

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length drilled}}$ %
3. Core size. A.17 0 - 28.04m

   32mms dia.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/11

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 3.20	3.20	2.65	83
4.42	1.22	1.22	100
5.03	.61	.17	28
6.25	1.22	1.17	96
9.75	3.50	3.30	94
11.89	2.14	1.90	89
13.11	1.22	1.10	90
13.72	.61	.65	106
14.93	1.21	.82	68
15.54	.61	.33	54
16.76	1.22	.80	65
18.23	1.47	1.60	109
19.20	.97	.92	95
20.42	1.22	1.16	95
21.64	1.22	.95	78
22.55	.91	.85	93
23.16	.61	.60	100
23.77	.61	.61	100
24.69	.92	.75	81
25.91	1.22	1.22	100
27.13	1.22	.75	61
27.74	.61	.31	50
28.04	.30	.28	93
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/11

0 - 11.5m — BIOTITE HORNFELS

Fine grained purplish brown barren biotite hornfels. Bedding 8m 45° L.A.O.C.

Below 8m the core is more pyroxene and quartz rich and indicative of the footwall sequence of B lens.

11.5m - 21.5m — B LENS

Pyroxene hornfels 11.5 - 14.0

Barren coarse grained green ph, weak volcanic texture and similar in appearance to the unit, often named 'tuffite'.

Biotite hornfels 14.0 - 15.7

Barren grey bh.

Garnet pyroxene hornfels 15.7 - 18.23

Pyroxene rich fine grained andradite skarn but no mineralization.

Biotite hornfels 18.23 - 21.5

Barren purplish brown bh flecked with fine (< 1mm dia.) plates of brown mica.

21.5 - 28.04m — BIOTITE HORNFELS

Typical hangingwall bh. Very fine grained, barren, siliceous, brown grey in colour with clay on joint surfaces. Abundant spotting below 25.5m.

Core in this section is moderately broken throughout. R.Q.D. (20.42 - 28.04) = 17%.

28.04m E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 120/10

PLANNING

Proposer: M.J. Danielson. Depth: 150m.

Location: 220120E main decline.

Purpose of hole: Test C lens south of Central Fault.

Co-ordinates: 220120 E 564040 N

Inclination: -59° Magnetic

Bearing: 180° Grid Target depth:

Target: E N

Approved by: M.C. Rogers. Date: 1/4/75

SURVEY

Survey Co-ords: E N

Survey bearing: 186°30' Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 220 119.7 E 564 037.6 N

R.L. of collar: -80.1 Inclination of hole: -57°10'

Picked up by : R.J.H. Date: 9/4/75

SUMMARY

Logged by : M.J. Danielson.

Results: C lens (pgh) 74 - 85 11m @ 0.83% WO_3

C lens 100 - 103 3m @ 0.42% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 2.4.75 Date terminated: 16/4/75

Casing:	Size :	BX			
	Depth :	1.5			
Core:	Size :	NQ	BQ		
	Depth :	1.5	155.90		

Wedge Runoff:

Wedge placed: NIL Depth:

Proposed by : Approved by:

Reason:

Extension: NIL

Reason for termination: Hole was continuing in unmineralized banded footwall hornfels. Final depth: 155.90

Condition of hole on completion:

Casing : 1.5 BX remains.

Cemented : Yes.

Bore hole survey: Surveyed to 155.45m

Water: NIL.

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/10

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 3.96	3.96	3.60	91
5.18	1.22	1.22	100
6.48	1.30	1.30	100
7.14	.66	.66	100
8.36	1.22	1.21	100
11.40	3.04	3.03	100
13.05	1.65	1.61	98
14.27	1.22	1.22	100
17.40	3.13	3.08	98
1953	2.13	2.15	100
20.45	.92	.88	96
20.75	.30	.30	100
22.07	1.32	0.66	50
24.07	2.00	1.50	75
27.20	3.13	3.05	97
30.33	3.13	3.05	97
33.45	3.12	3.13	100
36.57	3.12	3.12	100
36.88	.31	0.35	100
39.93	3.05	3.05	100
42.98	3.05	3.04	100
46.02	3.04	3.04	100
48.92	2.90	2.98	100
51.15	2.23	2.17	97
51.76	.61	.62	100
53.90	2.14	2.10	98
54.81	.91	.94	100
56.64	1.83	1.74	95
57.86	1.22	1.25	100
60.91	3.05	3.05	100
63.65	2.74	2.70	99
63.95	.30	.30	100
67.0	3.05	3.05	100
69.36	2.36	2.30	97
69.67	.31	.35	100
70.71	1.04	1.47	141
72.06	1.35	1.69	125
75.18	3.12	3.13	100
78.23	3.05	3.05	100
81.28	3.05	3.12	100
84.33	3.05	3.05	100
87.22	2.89	2.85	99

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/10

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 90.27	3.05	3.08	100
93.32	3.05	3.03	99
96.06	2.74	2.80	100
99.19	3.13	3.13	100
101.47	2.28	1.28	56
102.39	.92	.72	78
103.83	1.44	1.42	99
105.46	1.63	1.63	100
106.07	.61	.61	100
108.20	2.13	2.13	100
111.25	3.05	3.10	100
114.30	3.05	3.08	100
116.94	2.64	2.62	99
117.24	.30	.30	100
119.33	2.09	2.09	100
120.09	.76	.80	100
123.14	3.05	3.05	100
126.19	3.05	3.05	100
129.23	3.04	3.04	100
131.98	2.75	2.75	100
135.03	3.05	3.04	100
138.15	3.12	3.12	100
140.89	2.74	2.80	100
144.02	3.13	3.08	98
147.06	3.04	3.05	100
150.11	3.05	3.05	100
152.86	2.75	2.75	100
155.90	3.04	3.04	100
E.O.H.			

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 120/10

Survey method : Multishot camera.
Final depth : 155.90m
Casing depth : 1.52m.

Depth surveyed to : 155.45m.
Date surveyed :16.4.75
Surveyed by :G.L. Buckland.
Checked by :M.J. Danielson.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		E	S
15.24	184°30'	175°30'	32°30'	-57°30'	12.85	0.58	8.17
30.48	185°	176°	33°	-57°	25.65	1.15	16.43
45.72	186°30'	177°30'	32°30'	-57°30'	38.47	1.62	24.65
60.96	187°30'	178°30'	33°	-57°	51.25	1.98	32.94
76.20	188°	179°	33°	-57°	64.03	1.92	41.24
91.44	188°	179°	33°15'	-56°45'	76.81	1.72	49.55
106.68	191°	182°	33°30'	-56°30'	89.52	1.45	57.96
121.92	192°30'	183°30'	33°30'	-56°30'	102.23	1.07	66.36
137.16	193°30'	184°30'	34°	-56°	114.86	0.46	74.86
155.49	193°30'	184°30'	33°30'	-56°30'	130.15	0.32	84.87

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 120/10

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 - 14.27m	bph	5		clay, minor carbonate.		97	70	broken ground. 5.95 - 7.14
14.27 - 24.07	ph	7		clay	19m:60° 23m:60°	87	55	Significant core loss 20.75 - 24.07
24.07 - 51.15	ch	2		carbonate	27m:50° 33m:55° 47m:40°	100	86	
51.15 - 67.00	bh	5		clay	57m:40°	99	73	
67.00 - 72.06	bh	7		clay		115	78	
72.06 - 99.19	pgh	4 below 95m increases to 6.		clay, minor carbonate.		100	83	86.86 - 88.50 clay recemented breccia. chlorite on fracture surfaces e.g. 88.2 - 88.5.
99.19 - 102.39	gh, banded gh,	8		clay	101m:55°	62	16	99.19 - 101.47 some core appears to have been ground away.
102.39 - 108.20	banded bh/ah	10		clay, minor chlorite & pyrite.	107m:65° 108m:0°	100	38	

FURTHER DATA & REMARKS

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

GEOPEKC LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 120/10

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)
108.20 - 129.23	banded bh/ah	4		clay. chlorite 119 - 119.3	109m:45° 110m:15° 112m:90° 113m:0° 116m:50° 118m:60° 119m:35° 120m:0° 121m:0° 123m:0° 128m:0°	100	72	Fold axes @ 113m 119.7m 121.5m
129.23 - 155.90	banded bh/ah, 1v	2		clay, minor carbonate.	130m:30° 132m:40° 133m:40° 138m:5° 139m:30° 141m:35° 154m:70°	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 designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered}}$ %
3. Core size.

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No.D 120/10

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
D3346	20	21	1.0	0.88	0.02	<0.01				
7	21	22	"	0.50	<0.01	"				
8	22	23	"	0.78	0.80	0.02				
9	23	24	"	0.85	0.05	<0.01				
50	24	25	"	1.0	0.17	"				
1	25	26	"	"	0.40	"				
2	26	27	"	"	<0.01	"				
D3353	46	47	1.0	1.0	<0.01	<0.01				
4	47	48	"	"	0.02	"				
5	48	49	"	"	0.01	"				
6	49	50	"	"	<0.01	"				
D3357	72	73	1.0	1.0	0.08	<0.01				
8	73	74	"	"	0.03	"				
9	74	75	"	"	1.14	0.01				
60	75	76	"	"	1.76	0.02				C lens. pgh.
1	76	77	"	"	0.20	<0.01				11m @
2	77	78	"	"	0.21	"				
3	78	79	"	"	1.47	0.02				
4	79	80	"	"	0.30	<0.01				0.83% WO_3
5	80	81	"	"	2.61	0.06				
6	81	82	"	"	0.29	<0.01				
7	82	83	"	"	0.40	"				
8	83	84	"	"	0.28	"				
9	84	85	"	"	0.47	"				
70	85	86	"	"	0.12	"				
1	86	87	"	"	0.08	"				
2	87	88	"	"	0.02	"				
3	88	89	"	"	0.07	"				
4	89	90	"	"	0.11	"				
5	90	91	"	"	0.10	"				
6	91	92	"	"	0.32	"				
7	92	93	"	"	0.02	"				
8	93	94	"	"	0.07	"				
9	94	95	"	"	0.02	"				
80	95	96	"	"	0.07	"				
1	96	97	"	"	0.13	"				
2	97	98	"	"	0.09	"				

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D120/10

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
D3383	98	99	1.0	1.0	0.12	< 0.01				
4	99	100	"	0.46	0.17	"				
5	100	101	"	0.64	0.48	0.04				C lens
6	101	102	"	1.0	0.28	< 0.01				3m @
7	102	103	"	1.0	0.49	"				0.42% WO_3
D3388	103	104	"	1.0	0.07	"				

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/10

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	WO_3 - check	A.C.S.L., & repeat sample.
D 3350	0.17	< 0.01	D 3863	0.16	< 0.01	D 3864	0.22		D 3865	0.25		
3360	1.76	0.02	3866	1.48	0.01	3867	1.85		3868	1.82	1.87	
3369	0.47	< 0.01	3869	0.47	< 0.01	3870	0.65		3871	0.63		
3376	0.32	< 0.01	3872	0.28	< 0.01	3873	0.37		3874	0.40		
D 3386	0.28	< 0.01	D 3875	0.24	< 0.01	D 3876	0.33		D 3877	0.28		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/10

0 - 14.37m BIOTITE PYROXENE HORNFELS

Dominantly a fine grained barren grey black biotite hornfels with minor green interbeds of pyroxene. The unit is typical of the immediate hangingwall of the B lens host rocks.

14.37 - 59.0m B LENS

The B lens sequence can be subdivided into the following units.

14.37 - 26.10 pyroxene hornfels

This section is dominantly a green ph with minor black interbeds of black bh 15.6 - 17.0. Below 17m there is moderate to abundant pale pink grossular garnet and there is minor andradite garnet developed between 23 - 26m.

There is minor desseminated scheelite between 20 - 26m.

26.10 - 51.0 MARBLE

Typical barren dirty grey B lens marble.
Between 30 - 36m there is frequent black spotting - probably carbon.

There is some pyroxene rich grossular garnet skarn developed 38.80 - 39.73 with some minor desseminated scheelite.

Bedding: 35m 42° L.A.O.C.
40m 40° ..
47m 40° ..

51.0 - 52.7m BIOTITE AND PYROXENE HORNFELS

Barren grey black bh and green ph.

52.7 - 56.6m ACID DYKE

Massive grey barren rock with a volcanic texture. Compare with 'acid dyke' in D 160'

56.6 - 59.0m BANDED BIOTITE PYROXENE HORNFELS

A black barren bh with green interbeds of ph. Contained within the ph are thin (<0.5cm) grossular garnet beds.

59.0 - 71.60m HANGINGWALL BIOTITE HORNFELS

Barren grey hangingwall bh. No bedding apparent. Abundant carbonate veining and carbonate recemented breccia 63.95 - 64.20m.

Spotting between 66 - 69m.

71.60 - 99.19m PYROXENE GARNET HORNFELS

Mainly a green pyroxene hornfels with carbonate pods up to 10cm dia. and abundant very pale pink and brown grossular garnet.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/10

71.60 - 99.19m continued.

Moderate mineralization throughout often in forms of coarse scheelite blebs up to 3mm diameter.

Core is leached and is a clay and carbonate recemented breccia between 86.9 - 88.5m. Some chlorite on fracture surfaces 88.2 - 88.5m.

99.19 - 99.60m GARNET HORNFELS

Massive medium grained andradite skarn. Low to medium grade fine desseminated scheelite.

99.60 - 103.2m BANDED GARNET HORNFELS

Fine grained andradite and grossular garnet skarn with barren interbeds of barren green ph up to 2cm wide.

Patchy mineralization both as finely desseminated and coarse grains of scheelite.

No mineralization below 103.17m.

103.2 - 144.0m BANDED BIOTITE ACTINOLITE HORNFELS

Thinly banded, usually less than 0.5cm wide interbeds of grey black bh and whitish grey ah.

In places e.g. 125 - 128 & 132 - 134m the ah is replaced by a green ph.

The unit contains no mineralization. The variation in the bedding angle is the significant feature of this unit and in several places e.g. 123 - 128m.

The bedding is parallel to the core axis. Several fold axes are also recorded e.g. 113m, 119.7m.

The quality of core throughout this bedded unit is good. R.Q.D. (108.2 - 129.2) = 72%

144.0 - 151.0m LOWER METAVOLCANICS?

This unit is similar in appearance to the lower metavolcanic but is not exactly identical.

The unit is basically a barren massive pale green grey rock spotted with flecks of brown biotite hornfels.

151.0 - 155.90m BIOTITE HORNFELS

Pale grey barren weakly bedded biotite hornfels.

E.O.H. 155.90m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. D 120/9

PLANNING

Proposer: M.J. Danielson. Depth: 68.88m.

Location: Junction of the 75m cross-cut and B lens drive.

Purpose of hole: Test footwall of C lens in Central Area.

Co-ordinates: 220125 E 564110 N

Inclination: -90° Magnetic

Bearing: Grid Target depth: 70m.

Target: E N

Approved by: M.C. Rogers. Date: 1/2/75

SURVEY

Survey Co-ords: E N

Survey bearing: 225°00' Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 220 123.74 E 564 108.89 N

R.L. of collar: - 78.02 Inclination of hole: Vertical

Picked up by : R.J.H. Date: 11/3/75

SUMMARY

Logged by : M.J. Danielson.

Results:

pgh	13 - 17	4m	4.82%
Upper C lens	21 - 38	17m	1.80%
Lower C lens	43 - 49	6m	0.88%
Lower C lens	53 - 55	2m	0.36%

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 6/3/75 Date terminated: 12/3/75

Casing: Size : BX

Depth : 0.5m

Core: Size : NQ | BQ

Depth : 0.5 | 68.88

Wedge Runoff:

Wedge placed: NIL Depth:

Proposed by : Approved by:

Reason:

Extension: NIL

Reason for termination: Hole passed into unmineralised footwall hornfels sequence. Final depth: 68.88m.

Condition of hole on completion:

Casing : 0.5m BX remains.

Cemented : Yes.

Bore hole survey: Surveyed to 68.88m.

Water: NIL.

Comments on drilling conditions:

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NoD 120/9

Survey method : Multishot camera.
Final depth : 68.89m.
Casing depth : 1.52m.

Depth surveyed to : 68.89m.
Date surveyed : 12/3/75
Surveyed by : V.J. Powell.
Checked by : G.L. Buckland.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		N	W
15.24	292°	283°	1°30'	-88°30'	15.24	0.15	0.24
30.48	294°	285°	1°30'	-88°30'	30.48	0.25	0.62
45.72	292°	283°	2°	-88°	45.71	0.34	0.97
60.96	276°	267°	2°15'	-87°45'	60.95	0.39	1.45
68.89	263°	254°	2°45'	-87°15'	68.86	0.31	1.69

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No.D 120/9

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 - 3.96	bh	+ 15		clay		100	24	
3.96 - 13.18	bh/ pgh	6		clay		100	79	bad ground: 7.46 - 8.13
13.18 - 22.32	pgh/gh	2		clay, minor carbonate.		99	88	
22.32 - 37.18	gh/ banded gh	2		clay, carbonate		100	94	
37.18 - 40.23	banded gh/ bh/ marble/ bh	10		clay, carbonate		100	36	
40.23 - 56.40	bh/ banded gh	3		clay, carbonate.	43m:55° 46m:60° 49m:75° 51m:65° 52m:60°	100	82	NOTE: Minor chlorite on bedding surfaces in the thinly bedded bah.
56.40 - 68.88	banded bph	8		minor chlorite & pyrite	59m:85° 63m:75° 66m:75° 68m:75°	100	67	

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered pieces}}$ %
3. Core size.
   0 - 0.50 NQ
   0.50 - 68.89 BQ

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 3.96	3.96	3.96	100
7.09	3.13	3.10	99
10.13	3.04	3.15	104
13.18	3.05	3.05	100
16.30	3.12	3.04	97
19.27	2.97	2.99	101
22.32	3.05	3.05	100
25.37	3.05	3.05	100
28.42	3.05	3.05	100
31.39	2.97	2.82	95
34.44	3.05	3.12	102
37.18	2.74	2.80	102
40.23	3.05	3.05	100
43.28	3.05	3.20	105
46.40	3.12	3.12	100
49.45	3.05	3.10	102
52.65	3.20	3.01	94
53.34	.69	.69	100
56.46	3.12	3.05	98
59.58	3.12	3.12	100
62.71	3.13	3.14	100
65.83	3.12	3.02	97
68.88	3.05	3.10	102
E.O.H.			

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No.D 120/9

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
D3225	11	12	1.0	1.0	0.02	0.03				
6	12	13	"	"	0.01	0.02				
7	13	14	"	"	17.5	0.82				
8	14	15	"	"	0.22	0.05				Pgh
9	15	16	"	"	0.28	0.04				13 - 17m
30	16	17	"	"	1.29	0.10				4m @ 4.82% WO_3
1	17	18	"	"	0.04	0.02				
2	18	19	"	"	0.46	0.05				
3	19	20	"	"	0.14	0.03				
4	20	21	"	"	0.11	0.03				
5	21	22	"	"	1.07	0.08				
6	22	23	"	"	1.59	0.19				
7	23	24	"	"	1.56	0.14				
8	24	25	"	"	1.39	0.13				
9	25	26	"	"	1.36	0.16				Upper C lens.
40	26	27	"	"	1.57	0.12				21 - 38m
1	27	28	"	"	1.86	0.11				17m
2	28	29	"	"	1.85	0.11				@ 1.80% WO_3
3	29	30	"	"	1.07	0.08				
4	30	31	"	"	2.32	0.36				
5	31	32	"	"	11.5	0.57				
6	32	33	"	"	0.49	0.05				
7	33	34	"	"	0.93	0.08				
8	34	35	"	"	0.26	0.04				
9	35	36	"	"	0.24	0.04				
50	36	37	"	"	0.82	0.11				
1	37	38	"	"	0.71	0.07				
2	38	39	"	"	<0.01	0.02				
3	39	40	"	"	0.31	0.03				
4	40	41	"	"	6.1	0.26				
5	41	42	"	"	<0.01	0.02				
6	42	43	"	"	0.23	0.04				
7	43	44	"	"	1.42	0.23				Lower Clens
8	44	45	"	"	1.75	0.26				43 - 49
9	45	46	"	"	0.99	0.14				6m
60	46	47	"	"	0.47	0.07				@ 0.88% WO_3

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. No. D 120/9

SAMPLE No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
D3262	47	48	1.0	1.0	0.20	0.07	
61	48	49	"	"	0.45	0.08	
63	49	50	"	"	0.16	0.05	
4	50	51	"	"	0.08	0.02	
5	51	52	"	"	0.01	0.02	
6	52	53	"	"	0.18	0.04	
7	53	54	"	"	0.44	0.05	Lower 'C' lens 53 - 55m 2m @ 0.36% WO_3
8	54	55	"	"	0.28	0.04	
D3269	55	56	1.0	1.0	0.02	0.02	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/9

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 3230	1.29	0.10	D 3440	1.27	0.04	D 3441	1.14	0.055	D 3442	1.22	0.076	
3234	0.11	0.03	3443	0.08	<0.01	3444	0.11	0.004	3445	0.14	0.060	
3246	0.49	0.05	3446	0.54	<0.01	3447	0.63	0.029	3448	0.71	0.029	
3258	1.75	0.26	3449	1.77	0.15	3450	1.57	0.135	3451	1.92	0.200	
D 3261	0.45	0.08	D 3452	0.18	0.01	D 3453	0.19	0.03	D 3454	0.26	0.036	

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/9

00 - 11.80 BIOTITE HORNFELS

Barren fine grained pale grey biotite hornfels. No bedding apparent.

11.80 - 21.45 PYROXENE GARNET HORNFELS

Mostly a pale green pyroxene hornfels with irregular patches of pale brown grossular garnet. Carbonate pods are very rare.

Coarse scheelite 13.25 - 13.60. With the exception of the coarse scheelite the unit is very weakly mineralized.

21.45 - 31.40 GARNET HORNFELS

Medium to coarse grained andradite grained andradite garnet skarn. The unit is very highly mineralized with fine desseminated scheelite.

31.40 - 37.74 BANDED GARNET HORNFELS

Weakly banded andradite garnet skarn with fine desseminated scheelite. This skarn has a higher pyroxene and grossular garnet content.

Coarse scheelite 31.83 - 32.02.

37.74 - 38.10 BIOTITE HORNFELS

Unmineralized grey fine grained biotite hornfels.

38.10 - 39.70 MARBLE (?)

This rock is very similar in appearance to the acid dyke logged in D 120/5, but has a very high carbonate content judging from its reaction with hydrochloric acid.

This rock is massive, medium grained and a 'volcanic' texture.

39.70 - 43.0 BIOTITE HORNFELS

Mostly a barren grey bh with minor green ph. There is some very minor skarn developed and coarse scheelite at 40.02 - 40.12.

43.0 - 56.0 BANDED GARNET HORNFELS

A weakly mineralized pyroxene rich andradite and grossularite garnet skarn.

Below 50m the unit is particularly grossular rich with increasing bh and ph content.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 120/9

56.0 - 68.88 BANDED BIOTITE PYROXENE HORNFELS

A very thinly bedded (< 0.5cm) brown (bh) green (ph) unit with bedding mostly about 75° to the L.A.O.C.

No mineralization and the quality of core is particularly good for this bedded unit.

R.Q.D. (56.46 - 68.88) = 67%.

E.O.H. 68.88m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: D 120/8

PLANNING

Proposer: M. J. Danielson Depth: 110m

Location: 220/20E cuddy main decline.

Purpose of hole: Oreblocking south of Central Fault.

Co-ordinates: 220 120 E 564 040 N

Inclination: -72° Target depth: 90m

Bearing: 180° °Grid °Magnetic

Target: E N

Approved by: M.C. Rogers. Date: 1/8/74

SURVEY

Survey Co-ords: E N

Survey bearing: °Grid °Magnetic

Surveyed in by: Date:

Actual Co-ords: 564038.6N 220119.9E

R.L. of collar: -80.4 Brg. 180°57' Inclination of hole: -71°30'

Picked up by: M.G.M. Date: 22nd August, 1974.

SUMMARY

Logged by: M.J. Danielson.

Results: C lens: 75 - 93m, 18m @ 1.11% WO_3.

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 13/8/74 Date terminated: 4/9/74

Casing:	Size :	NX				
	Depth:	0.61				
Core:	Size :	NQ	BQ			
	Depth:	0.61	110.64			

Wedge Runoff:

Wedge placed: NIL. Depth:

Proposed by: Approved by:

Reason:

Extension: NIL Final depth: 110.64m.

Reason for termination: Hole passed into unmineralised footwall beds.

Condition of hole on completion:

Casing :

Cemented: Yes

Bore hole survey: Surveyed to 109.73m.

Water: Normal water pressure throughout.

Comments on drilling conditions: Nine shifts lost due to bit being burnt off into bottom of hole.

GEOPEKO LIMITED - Dolphin Mine

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO. D 120/8

Survey method : Multishot camera
Final depth : 110.64m.
Casing depth : 1.52m.

Depth surveyed to : 109.73m
Date surveyed : 4/9/74
Surveyed by : G.L. Buckland.
Checked by : G.L. Buckland.

DEPTH (m)	Bearing		Inclination		True Vertical depth (m)	Co-oridinates	
	Grid	Mag.	Read	Corrected		# S	# E
15.24	181°	172°	17°15'	- 72°45'	14.55	4.47	0.63
30.48	182°	173°	17°15'	- 72°45'	29.11	8.94	1.32
45.72	183°	174°	17°15'	- 72°45'	43.64	13.48	1.80
60.96	184°15'	175°15'	16°45'	- 73°15'	58.22	17.93	2.22
76.20	184°15'	175°15'	16°45'	- 73°15'	72.81	22.31	2.59
91.44	187°	178°	17°	- 73°	87.39	26.73	2.86
106.68	189°	180°	17°	- 73°	101.96	31.19	2.90
109.73	189°	180°	17°	- 73°	104.88	32.08	2.90

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO.D 120/8

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0.6.60	bph	9		carbon-ate, minor pyrite		95	68	0 - 0.61: rubble.
6.60-21.69	bph/pgh	7		carbon-ate, minor pyrite.	16m: 65° LAOC	100	84	bad ground 13.47-13.91
21.69-40.08	marble	3		clay, carbon-ate @ 33.83 39.75	25m:65° LAOC	100	93	
40.08-59.84	bph/ Tuffite/ hangingwall bh	7		clay, chlorite @ 40.17	42m:70° LAOC	116	57	bad ground: 48.7 – 49.5
59.84-75.08	hangingwall bh/pgh	6		clay		100	80	

FURTHER DATA & REMARKS (Compression Tests)

1. Core size: 0 - 0.61m NQ
   0.61 - 110.64 BQ
2. For detailed % core recovery within each depth interval consult core recovery page.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 120/8

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
75.08-92.35	gh	5		clay		98	91	
92.35-99.82	bh	15		clay; moderate chlorite through - out.		99	20	Poor to moderate ground conditions.
99.82-110.64	Lower metavolcanics /banded footwall hornfels.	14		clay chlorite; minor pyrite.	110m:30° LAOC	101	37	108-110.64 marked improvement in core quality.

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 0.61	0.61	0.57	93
3.56	2.95	2.64	89
6.60	3.04	3.04	100
9.65	3.05	3.14	103
12.70	3.05	3.04	100
13.77	1.07	1.07	100
16.82	3.05	3.15	103
18.64	1.82	1.84	101
21.89	3.05	3.05	100
24.74	3.05	3.09	101
25.95	1.21	1.11	92
29.01	3.06	3.15	103
30.84	1.83	1.78	97
33.88	3.04	3.05	100
34.44	0.56	0.58	184
37.49	3.05	3.04	100
40.08	2.59	2.64	102
43.18	3.10	3.12	107
44.96	1.78	1.93	108
45.26	0.30	0.27	90
47.70	2.44	2.50	102
49.48	1.78	1.52	85
50.09	0.61	0.63	103
53.14	3.05	2.87	94
56.19	3.05	3.01	98
56.79	0.60	0.83	138
59.84	3.05	3.25	107
62.89	3.05	3.05	100
65.94	3.05	3.05	100
68.99	3.05	3.05	100
72.03	3.04	3.05	100
75.09	3.05	3.05	100
78.13	3.05	3.05	100
81.18	3.05	3.05	100
84.23	3.05	3.05	100
87.27	3.04	3.05	100
90.32	3.05	3.05	100
92.35	2.03	1.70	84
92.96	.61	.61	100
93.57	.61	.40	66
93.88	.31	.29	94
94.34	.46	.40	87
94.79	.45	.55	122
95.71	.92	.94	102
97.55	1.84	1.85	101
98.30	.75	.90	120

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 120/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
99.82	1.52	1.47	98
102.41	2.59	2.85	110
105.31	2.90	3.00	103
106.68	1.37	1.03	75
109.73	3.05	3.05	100
110.64	.91	.95	104

GEOPEKO LIMITED - Dolphin Mine

ASSAY DATA

D.D.H. NO.D 120/8

SAMPLE NO.	DEPTH (METRES) From	To	Length	Length recovered	ELEMENTS WO_3	Mo	COMMENTS
D2540	16	17	1.0	1.0	0.12	0.02	
1	17	18	"	"	0.08	0.02	
2	18	19	"	"	0.01	0.01	
3	19	20	"	"	1.10	0.08	
4	20	21	"	"	6.00	0.27	
5	21	22	"	"	<0.01	<0.01	
6	22	23	"	"	<0.01	<0.01	
D2638	69	70	"	"	0.05	<0.01	
9	70	71	"	"	0.11	<0.01	
40	71	72	"	"	0.13	<0.01	
1	72	73	"	"	2.15	<0.06	
2	73	74	"	"	0.03	<0.01	
3	74	75	"	"	0.09	<0.01	
4	75	76	"	"	1.96	0.07	
5	76	77	"	"	1.62	0.06	
6	77	78	"	"	1.08	0.05	
7	78	79	"	"	0.87	0.03	C lens 18m at 1.11%
8	79	80	"	"	1.59	0.05	
9	80	81	"	"	1.23	0.04	
50	81	82	"	"	0.73	0.02	
1	82	83	"	"	0.78	0.03	
2	83	84	"	"	1.24	0.06	
2653	84	85	"	"	1.40	0.05	
D2654	85	86	1.0	1.0	1.51	0.07	
5	86	87	"	"	1.00	0.04	
6	87	88	"	"	0.47	0.01	
7	88	89	"	"	0.90	0.02	
8	89	90	"	"	1.17	0.04	
9	90	91	"	"	1.25	0.04	
60	91	92	"	0.72	0.82	0.02	
1	92	93	"	1.0	0.35	<0.01	
D2662	93	94	"	"	0.01	0.01	

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/8

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 2544	6.00	0.27	D 0193	5.4	0.28	D 0192	4.22	0.14	D 0191	4.72	<0.005
2639	0.11	<0.01	0190	0.12	0.03	0189	0.16	0.03	0188	0.12	<0.005
2644	1.96	0.07	0178	2.13	0.12	0177	2.27	0.075	0176	1.92	0.039
2650	0.73	0.02	0181	0.90	0.08	0180	0.93	0.045	0179	0.92	0.022
2656	0.47	0.01	0187	0.40	0.05	0186	0.55	0.035	0185	0.52	0.018
2661	0.35	<0.01	0184	0.39	0.04	0183	0.54	0.045	0182	0.43	0.011

GEOPEKO LIMITED - Dolphin Mine

GEOLOGICAL LOG

D.D.H. NO. D 120/8

00 - 14.30 BIOTITE PYROXENE HORNFELS.

This unit is typically of the dominantly black biotite hornfels and minor interbedded green (ph) of the uppermost part of the B lens sequence.
Several fine carbonate filled fractures show a halo of green pyroxenation. e.g. 10.80m.
Bedding: 12.5m 68° LAOC.

14.30 - 20.90m PYROXENE GROSSULAR HORNFELS.

A banded green pyroxene hornfels and pale pink grossular garnet hornfels with minor white carbonate. The unit contains moderate mineralisation 16.5 - 20.5m.
Bedding: 16m 65° LAOC.

20.9 - 40.53 MARBLE

A barren dirty grey marble. Quality of core is excellent. RQD = 93%. Core is spotted with black carbonaceous spots 24 - 28m. Spots up to 5mms dia.
Bedding: 25m 65° LAOC.
This unit has some green pyroxene and brown grossular garnet developed 31 - 32m with very minor desseminated scheelite.
Joints are all clay and carbonate filled.

40.53 - 42.30 BIOTITE PYROXENE HORNFELS.

A banded biotite pyroxene rock, no mineralisation.
Bedding: 42m 70° LAOC.

42.30 - 45.26 TUFFITE.

A pale green and grey rock, fine grained with no mineralisation. Texture is weakly spotted or fragmental and is more volcanic than hornfelsic in appearance.

45.26 - 60.84 HANGINGWALL BIOTITE HORNFELS.

Typical grey purplish brown, fine grained and barren. No apparent bedding.
Clay on joint surfaces - no chlorite.

60.84 - 75.08 PYROXENE GARNET HORNFELS.

Pale green pyroxene hornfels with white carbonate pods up to 5cm. dia. rimmed with honey coloured grossular garnet. The unit is only very weakly mineralised.

75.08 - 92.35 GARNET HORNFELS.

Medium to coarse grained andradite garnet skarn

GEOPEKO LIMITED - Dolphin Mine

GEOLOGICAL LOG

D.D.H. NO.D 120/8

with moderate to high grade desseminated scheelite throughout. Quality of core is good. RQD = 91%

92.35 - 99.82 BIOTITE HORNFELS.

Mostly a grey brown barren fine grained biotite hornfels with occassional green ph and brown grossular garnet. e.g. 99.0 - 99.5
Quality of core is poor with some lost core.

RQD = 20%.

99.82 - 109.0 LOWER METAVOLCANICS.

A pale grey weakly biotite spotted (< 1mm dia) rock with a volcanic texture. Minor chlorite on joint surfaces.

109.0 - 110.64 BANDED FOOTWALL HORNFELS.

Mostly a barren grey biotite hornfels but there is some minor green ph banding and minor development of very weakly mineralised andradite skarn at 109.25 - 109.50,
Bedding: 110m 30° LAOC.

110.64 E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: D 120/7

PLANNING

Proposer: M.J. Danielson Depth: 75m

Location: 220 120E Drill Cuddy.

Purpose of hole: Locate Central Fault

Co-ordinates: 220 120 E 564040 N

Inclination: -67 Target depth:

Bearing: 360 °Grid °Magnetic

Target: E N

Approved by: M.C. Rogers Date: 1/8/74

SURVEY

Survey Co-ords: E N

Survey bearing: °Grid °Magnetic

Surveyed in by: Date:

Actual Co-ords: 220 120.1 E 564038.2 N

R.L. of collar: - 80.4 Inclination of hole: - 71.5

Picked up by: M.G.M Date: 9 August, 1974

SUMMARY

Logged by: M. J. Danielson

Results: C lens, 61 - 75m, 14m @ 0.83% WO_3

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 1/8/74 Date terminated: 12/8/74

Casing:	Size :	BX				
	Depth:	1.52				
Core:	Size :	NQ	BQ			
	Depth:	1.52	75.39			

Wedge Runoff:

Wedge placed: NIL Depth:

Proposed by: Approved by:

Reason:

Extension: NIL. Final depth: 75.39

Reason for termination: Hole passed through Central Fault.

Condition of hole on completion:

Casing :1.52 BX remains

Cemented: Yes.

Bore hole survey: Surveyed to 73.15m.

Water: Normal Water return throughout.

Comments on drilling conditions: Faulty compass allowed rig to be set up at -71.5° instead of planned -67°.

GEOPEKO LIMITED - Dolphin Mine

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO. D 120/7

Survey method : Multishot camera
Final depth : 75.39m
Casing depth : 1.52m

Depth surveyed to : 73.15m.
Date surveyed : 12/8/74
Surveyed by : V. Powell
Checked by : G.L. Buckland.

DEPTH (m)	Bearing		Inclination		True Vertical depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		N	W
15.24	004°30'	355°30'	18°45'	- 71°15'	14.42	4.91	0.27
30.48	004°	355°	18°	- 72°	28.89	9.68	0.70
45.72	003°	354°	18°	- 72°	43.39	14.37	1.17
60.96	359°15'	350°15'	18°15'	- 71°45'	57.87	19.06	1.92
73.15	359°30'	350°30'	18°15'	- 71°45'	69.46	22.80	2.57

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 120/7

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 10.82	B lens hangingwall bh.	15		minor clay @ 8.10, minor pyrite, carbonate		109	33	bad ground 1.45-1.61 7.39-7.62
10.82-29.26	bph/ B lens.	9		minor clay and pyrite chlorite general eg @ 26.52 27.12	13.2m: 55° LAOC 18.0m: 50° 22.0m: 55°	98	73	bad ground 28.03-29.04, abundant chlorite. 23.66 - 24.31 core is fragmented, moderately leached and chlorite is weathered.
29.26-42.98	B lens.	3		carbonate @ 37.91, chlorite @ 30.65		100	93	

FURTHER DATA & REMARKS (Compression Tests)

1. Core size: 0 - 0.91 NQ
   0.91 - 75.39 BQ
2. For detailed % core recovery within each depth interval consult core recovery page.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. ~~D120/7~~

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
42.98-61.26	B lens / hangingwall bh.	7		pyrite @ 49.0 52.15 chlorite @ 43.20 45.90		102	81	bad ground 61.0-61.26 (fault)
61.26-70.10	pgh / gh/ banded gh	8		carbonate, minor pyrite @ 64.5	66m:50 67m:45 71m:65 73.5m 55 LAOC	101	70	
70.10-75.39	banded gh	14		carbonate		107	35	bad ground: 74.0-74.25

FURTHER DATA & REMARKS (Compression Tests)

CORE RECOVERY - DDH D 120/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED	% CORE RECOVERY
0 - 0.91	0.91	0.81	89
2.44	1.53	1.65	108
4.72	2.28	3.14	138
7.77	3.05	3.13	103
10.82	3.05	3.11	102
13.67	3.05	3.07	101
16.15	2.28	2.20	96
19.20	3.05	2.83	93
22.25	3.05	3.06	100
23.47	1.22	1.06	87
26.52	3.05	3.11	102
29.26	2.74	2.66	97
32.31	3.05	3.06	100
35.36	3.05	3.04	99
38 40	3.04	3.06	101
41.45	3.05	3.04	99
42.98	1.53	1.48	97
46.02	3.04	3.11	102
47.85	1.83	1.88	103
50.90	3.05	3.03	99
53.95	3.05	3.07	101
55.17	1.22	1.20	98
58.22	3.05	3.11	102
61.26	3.04	3.22	102
64.31	3.05	3.13	103
67.36	3.05	3.12	103
70.10	2.74	2.71	99
71.73	1.63	1.70	104
73.25	1.52	1.52	103
74.47	1.22	1.30	106
75.39	0.92	1.00	108

GEOPEKO LIMITED - Dolphin Mine

ASSAY DATA

D.D.H. NO.D 120/7

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO_3	Mo					
D2447	41	42	1.0	1.0	0.13	0.01					
2448	42	43	"	"	0.21	<0.01					
2432	60	61	"	"	<0.01	<0.01					
3	61	62	"	"	0.37	0.03					
4	62	63	"	"	0.98	0.03					
5	63	64	"	"	0.68	0.02					C Lens 14m at 0.83%
6	64	65	"	"	1.28	0.05					
7	65	66	"	"	1.93	0.08					
8	66	67	"	"	0.07	<0.01					
9	67	68	"	"	0.30	0.01					
40	68	69	"	"	1.62	0.07					
1	69	70	"	"	0.87	0.03					
2	70	71	"	"	0.43	0.01					
3	71	72	"	"	0.96	0.03					
4	72	73	"	"	0.93	0.03					
5	73	74	"	"	0.79	0.02					
2446	74	75	"	"	0.45	0.01					

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/7

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 2433	0.37	0.03	D 0052	0.56	0.05	D 0051	0.76	0.045	D 0050	0.63	
2440	1.62	0.07	0055	1.72	0.09	0054	1.77	0.085	0053	1.82	
2445	0.79	0.02	0058	0.65	0.04	0057	0.91	0.025	0056	0.94	

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO.D 120/7

0 - 10.82 **B LENS HANGINGWALL BIOTITE HORNFELS**

A fine grained barren grey purplish brown massive biotite hornfels. There is some minor pyroxene in this unit but it is basically a bh.

Moderate carbonate veining at 2.0 - 2.2
4.27 - 4.32
7.90 - 9.70

10.82 - 16.50 **BIOTITE - PYROXENE HORNFELS**

This is not a bedded unit but a variety of pale green (ph) and grey brown (bh) which is indicative of the top of the B lens sequence.

Minor desseminated copper sulphides 11.2 - 11.5
Bedding 13.2m 55° LAOC.

16.50 - 47.4 **B LENS**

A variety of rock types as follows:-

Pyroxene Grossular hornfels 16.50 - 22.42

A mottled green (ph) and pale pink grossular garnet rock. Very minor andradite skarns developed with isolated specks of desseminated scheelite. 20.5 - 20.7
22.0 - 22.4

Bedding 18.0m 50° LAOC.
22.0m 55° "

Marble 22.42 - 41.75

Barren grey massive typical B lens marble.
Brecciated core 23.8 - 24.4
Bedding 26m 55° LAOC.
Marble is spotted with irregular shaped black spots up to 5mm long between 27 - 28m.

Pyroxene Grossular Hornfels 41.75 - 43.60

A mottled green (ph) and pale white pink (gh) - minor andradite garnet skarn with minor scheelite 41.6 - 42.6.

Biotite Pyroxene Hornfels 43.6 - 47.4

Mostly a purplish grey (bh) with minor pyroxene banding the unit is dominatly pyroxene 46 - 47.4. The unit is unmineralised although some weak grossular garnet skarn appears 45.4 - 45.7.

47.4 - 61.26 **HANGINGWALL BIOTITE HORNFELS**

Typical grey brown massive unmineralised fine grained biotite hornfels.

There is some fine carbonate veining and broken core 60.8 - 61.26 which may represent a fault - minor chlorite on fracture surfaces.

61.26 - 61.80 **PYROXENE GROSSULAR HORNFELS**

A mottled pale pink and green rock with minor irregular patches of white carbonate.

GEOPEKO LIMITED - Dolphin Mine

GEOLOGICAL LOG

D.D.H. NO. D 120/7

The unit is unmineralised and could be vaguely described as a pgh.

61.80 - 63.90 **GARNET HORNFELS**

Highly mineralised medium to coarse grained massive andradite garnet skarn - no banding or bedding. This unit looks like upper C lens.

63.90 - 75.39 **BANDED GARNET HORNFELS**

This unit is typical of the base of the C lens horizon. There are patches of well mineralised andradite garnet skarn interbedded with barren green (ph), pink grossular garnet and minor barren white marble. eg 67.70 - 67.85.

Bedding: 66m 50° LOAC
67m 45° "
71m 65° "
73.5m 55° "

This unit is mineralised to E.O.H.

75.39 metres E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: D 120/6

PLANNING

Proposer: K.I.S. Depth: 140m

Location: -75m X cut

Purpose of hole: Test ground conditions in quartzites.

Co-ordinates: 220 120 E 564 150 N

Inclination: 0° Target depth:

Bearing: 324 °Grid °Magnetic

Target: E N

Approved by: M. C. Rogers Date: 21.6.74

SURVEY

Survey Co-ords: E N

Survey bearing: °Grid °Magnetic

Surveyed in by: Date:

Actual Co-ords: 220113.054 E 564151.343 N

R.L. of collar: - 76.35m Inclination of hole: -2° dip

Picked up by: D. Brown Date: 19.6.74

SUMMARY

Logged by: M. J. Danielson

Results: Ground conditions generally poor to moderate.

DRILLING

Driller / Contractor: A.D.D.

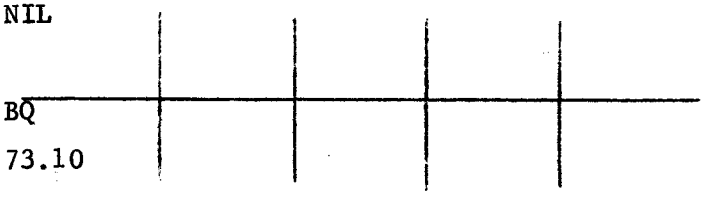
Date commenced: 19.6.74 Date terminated: 19.7.74

Casing: Size : NIL

Depth:

Core: Size : BQ

Depth: 73.10



Wedge Runoff:

Wedge placed: Depth:

Proposed by: Approved by:

Reason:

Extension: Final depth: 73.10m

Reason for termination: Hole making water 3000 gals/min.

Condition of hole on completion:

Casing : NIL

Cemented: Grouted to 46.48m then grouted again on termination.

Bore hole survey: Surveyed to 70.10m Bearing 314° ISG/-2°

Water: At 46.48m making 3000 gal/m.n.

At 73.10m making "

Comments on drilling conditions: Drilling machine F30.

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO. D 120/6

Survey method : Multishot Camera
Final depth : 73.12m
Casing depth :

Depth surveyed to : 70.10m
Date surveyed : 18.7.74
Surveyed by : V. Powell
Checked by : G. Buckland

DEPTH	Bearing		Inclination		True Vertical depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		XX N	XX W
0							
15.24	323°	314°	88°	-2°	0.53	10.58	10.95
30.48	323°	314°	88°	-2°	1.07	21.16	21.91
45.72	322.5°	313.5°	89°	-1°	1.37	31.84	32.78
60.96	323°	314°	88°	-2°	1.83	42.48	43.68
70.10	323°	314°	88°	-2°	2.15	48.83	50.26

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 120/6

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	~~Bedding Angle~~ STABILITY INDEX	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0.0-4.57	q	15		minor carbonate	12.9	99	38	ground core between 0.30-0.61.
4.57-7.78	q	+20		minor -carbonate -clay -pyrite	17.5	100	6	
7.78-10.67	q	14		minor -carbonate -clay -pyrite	10.8	100	55	
10.67-21.39	q	+20		chlorite minor carbonate pyrite	16.9	95	17	interval is less siliceous and more shale rich.
21.39-36.45	q	14		minor -pyrite -carbonate, lesser clay	12.07	97	45	poor ground 26.0-27.5m.
36.45-38.81	q	+20		minor chlorite at 37m	17.3	95	13	
38.81-41.32	q	15		minor pyrite, carbonate	10.2	100	64	interval is exceptionally siliceous.
41.32-46.48	q	+20		pyrite	18.7	85	9	core badly broken.

FURTHER DATA & REMARKS (Compression Tests)

1. Core size Bq (36.5mm)

2. For detailed % core recovery within each interval consult core recovery page.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 120/6

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	~~Bedding~~ ~~Angle~~ STABILITY INDEX	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
46/48-48.77	q	+20		carbonate	16.7	100	14	at 47.5m core is dissected with many carbonate filled joints. Fault?
48.77-61.06	q	+20		pyrite	14.6	99	36	
61.06-69.00	q	+20		pyrite carbonate	17.9	100	2	very poor ground core is shattered At 64.20 core is shattered and appears recemented with carbonate. Fault?
69.00-73.10	q	+20			15.2	100	29	

Note: Bold Head quartzites approximate to the following parameters. (See my memo on Rare Earth Intrs at Bold Head 30.10.1973).

j/m	5
RQD	90
S.I.	4 — 5

MJD.

CORE RECOVERY - DDH D 120/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 0.15	0.15	0.15	100
0.30	0.15	0.15	100
0.61	0.31	0.18	58
0.76	0.15	0.16	107
1.22	0.46	0.30	65
1.52	0.30	0.32	107
1.70	0.18	0.30	166
2.00	0.30	0.25	83
2.92	0.92	1.00	109
3.35	0.43	0.42	98
4.01	0.66	0.66	100
4.57	0.56	0.62	111
4.88	0.31	0.28	90
5.27	0.39	0.35	90
5.64	0.37	0.40	108
5.79	0.15	0.10	67
6.17	0.38	0.40	105
6.32	0.15	0.10	67
7.09	0.77	0.83	108
7.16	0.07	0.10	142
7.32	0.16	0.14	88
7.62	0.30	0.35	117
8.38	0.76	0.73	96
9.60	1.22	1.22	100
9.75	0.15	0.13	87
10.67	0.92	0.96	104
11.28	0.61	0.62	102
11.43	0.15	0.13	87
11.58	0.15	0.05	33
11.73	0.15	0.12	80
12.34	0.61	0.54	89
12.65	0.31	0.34	110
12.95	0.30	0.20	67
13.34	0.39	0.28	72
14.55	1.21	1.20	99
15.16	0.61	0.62	102
16.38	1.22	1.10	90
16.89	0.51	0.24	47
17.04	0.15	0.18	120
17.65	0.61	0.60	98
18.26	0.61	0.75	123
18.87	0.61	0.50	82
19.84	0.97	0.92	95
20.34	0.50	0.62	124
21.39	1.05	1.16	110
22.00	0.61	0.55	90
22.61	0.61	0.63	103
23.22	0.61	0.73	120
24.43	1.21	1.28	106
26.26	1.83	1.90	104
26.87	0.81	0.45	74
27.48	0.61	0.50	82
28.10	0.62	0.56	90
29.00	0.90	1.00	111
30.22	1.22	1.18	97
30.83	0.61	0.55	90

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
31.14	0.31	0.20	65
32.61	1.47	1.37	93
33.22	0.61	0.55	90
34.44	1.22	1.30	107
36.45	2.01	1.90	95
37.13	0.68	0.70	103
37.59	0.46	0.45	98
37.90	0.31	0.25	87
38.20	0.30	0.30	100
38.81	0.61	0.55	90
39.40	0.59	0.67	114
39.70	0.30	0.27	90
40.92	1.22	1.30	107
42.37	1.45	1.45	100
42.67	0.30	0.30	100
43.13	0.46	0.40	87
43.43	0.30	0.27	90
43.64	0.21	0.21	100
44.14	0.50	0.45	90
44.65	0.51	0.51	100
45.57	0.92	1.00	109
46.48	0.91	0.90	99
46.84	0.36	0.40	111
47.19	0.35	0.35	100
48.56	1.37	1.37	100
48.77	0.21	0.23	109
50.79	1.82	1.77	97
52.43	1.84	1.66	90
53.39	0.96	1.00	104
54.30	0.91	0.94	103
54.91	0.61	0.62	102
55.37	0.46	0.44	96
55.67	0.30	0.30	100
57.60	1.93	1.90	98
58.83	1.23	1.32	107
59.23	0.40	0.44	110
59.99	0.76	0.78	103
61.06	1.07	1.10	103
61.70	0.64	0.64	100
62.69	0.99	1.00	101
62.99	0.30	0.30	100
63.32	0.33	0.34	103
65.02	1.70	1.75	102
65.53	0.51	0.51	100
66.24	0.71	0.62	87
66.55	0.31	0.35	106
67.16	0.61	0.61	100
67.67	0.51	0.53	104
68.33	0.66	0.63	95
68.88	0.55	0.56	101
69.69	0.31	0.23	74
70.43	1.24	1.30	105
71.02	0.59	0.61	103
72.06	1.04	1.08	104
73.10	1.05	1.00	96

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO.D 120/6

0 - 73.10 QUARTZITE

A pale grey green structureless quartzite. No scheelite mineralisation. Subdivided as below:

0 - 10.67
Very siliceous quartzite with mostly carbonate and only minor pyrite on joint surfaces, - some clay.

10.67 - 21.39
Still a pale grey colour but gives appearance of being "softer" with less silica and more shale. Chlorite is very common on joint surfaces.

21.39 - 44.65
Siliceous grey green quartzite. Particularly "hard" between 38.81-41.32. Pyrite and minor carbonate are principal joint fillings.

44.65 - 45.57
Spotted grey quartzite. Spots are dark grey in colour and av. 5mm dia.

45.57 - 45.72
Very siliceous green quartzite.

45.72 - 50.59
More shale rich quartzite.

50.59 - 63.32
Spotted grey quartzite.

63.32 - 65.53
Core very badly broken with chlorite on fracture surfaces.

65.53 - 73.10
Quality of core improves. Very siliceous quartzite.

73.10 E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: D 120/5

PLANNING

Proposer: M. J. Danielson Depth: 100m

Location: 220 125 E entrance to B lens drive -75m

Purpose of hole: Oreblocking

Co-ordinates: 220 125 E 564 110 N

Inclination: -65° Target depth:

Bearing: 180°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: 220124.691E564108.298N

R.L. of collar: -78.106m Inclination of hole:

Picked up by: D. Brown Date: 6.6.74

SUMMARY

Logged by: M. J. Danielson

Results: C lens 18--22 4m @ 0.46% WO_3
32--40 8m @ 2.28% WO_3
46--77 31m @ 0.85% WO_3

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 6.6.74 Date terminated: 18.6.74

Casing:	Size :	BX	
	Depth:	1.52	
Core:	Size :	NQ	BQ
	Depth:	1.52	99.97

Wedge Runoff:

Wedge placed: Depth:

Proposed by: Approved by:

Reason:

Extension: Nil Final depth: 99.97

Reason for termination: Hole passed into unmineralised banded basal hornfels.

Condition of hole on completion:

Casing : 1.52 BX remains

Cemented: Yes

Bore hole survey: Surveyed to 97.53m.

Water:

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO.D 120/5

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 1.52	bh	+20				30	0	Rubble
1.52 - 14.32	bh	6			6m 58° 12m 50°	13.72 - 14.02 50% otherwise 100%	80	
14.32-32.54	pgh	4				100	84	slightly brecciated 23.0-26.5m
32.54-39.85	gh	4				99	82	
39.85-46.90	marble marker	7				100	70	
46.90-56.90	banded gh	4				100	84	
56.90-66.90	"	10			57m 60° 62m 70° 66m 65°	100	58	
66.90-78.64	"	9			77m 60°	100	61	bad ground 70.0-71.5 73.0-73.5 76.5-77 78-79m
78.64-95.0	banded gh/bh/ ph	7		mod. chlorite	78.64-79.25 66% 79.25-80.47 92% 80.47-81.87 90% 81.87-83.82 49% 83.82-85.04 8% 85.04-85.95 100% 85.95-87.17 92% otherwise 100%		55	

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 120/5

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
					85m 35° 88m 30° 92m 40° 95m 40°			
95.0-99.97	bh/ph	+20		chlorite	96m 50° 99m 50°	100	20	Core is mainly broken along bedding.

FURTHER DATA & REMARKS (Compression Tests)

Core size: 0 - 1.52 NQ 1.52 - 99.97 BQ.

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO.D 120/5

Survey method : Multishot Camera
Final depth : 99.97m
Casing depth : 1.52m

Depth surveyed to : 97.53m
Date surveyed : 18.6.74
Surveyed by : V. Powell
Checked by : M. J. Danielson

DEPTH	Bearing		Inclination		True Vertical depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		E	N S
0	183			-63°			
15.24	183	174	26°45'	-63°15'	13.59	1.33	6.71
30.48	184	175	26	-64	27.28	1.93	13.36
45.72	184°15'	175°15	26	-64	40.97	2.46	20.01
60.96	184°45'	175°45	26	-64	54.65	2.93	26.66
91.44	184°30'	175°30	26°15'	-63°45'	82.01	3.93	40.01
97.53	185	176	26	-64	87.49	4.11	42.67

REMARKS

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. NO.D 120/5

SAMPLE NO.	DEPTH (METRES) From	To	Length	Length recovered	ELEMENTS WO_3	Mo	Check No.	Check WO_3	Check Assay Mo	COMMENTS
C 1656	15	16	1.0	1.0	0.03	<0.01				
7	16	17	"	"	0.22	<0.01	C1907	0.27	<0.01	
8	17	18	"	"	0.04	<0.01				
9	18	19	"	"	1.16	0.04				
60	19	20	"	"	0.02	<0.01				
1	20	21	"	"	0.28	0.01				4m at 0.46% WO_3
2	21	22	"	"	0.38	0.01				
3	22	23	"	"	0.02	<0.01				
1665	23	24	"	"	0.07	<0.01				
1664	24	25	"	"	0.03	<0.01				
1666	30	31	"	"	0.01	<0.01				
7	31	32	"	"	0.02	<0.01	C1908	0.04	<0.01	
8	32	33	"	"	3.80	0.16				
9	33	34	"	"	3.50	0.11				
70	34	35	"	"	1.86	0.07				
1	35	36	"	"	1.54	0.05				8m at 2.28% WO_3
2	36	37	"	"	2.45	0.08				
3	37	38	"	"	2.70	0.10				
4	38	39	"	"	0.99	0.04				
5	39	40	"	"	1.40	0.04				
6	40	41	"	"	<0.01	<0.01				
7	41	42	"	"	0.21	<0.01	C1909	0.20	0.01	
8	42	43	"	"	<0.01	<0.01				
9	43	44	"	"	<0.01	<0.01				
80	44	45	"	"	<0.02	<0.01				
1	45	46	"	"	<0.01	<0.01				
2	46	47	"	"	0.37	<0.01				
3	47	48	"	"	1.23	0.02				
4	48	49	"	"	1.23	0.02				

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. NO. D 120/5

SAMPLE NO.	DEPTH (METRES) From	To	Length	Length recovered	ELEMENTS WO_3	Mo	CAMP NO	Check Assays WO_3	Mo	COMMENTS
1685	49	50	1.0	1.0	1.66	0.04				
6	50	51	"	"	1.77	0.04				
7	51	52	"	"	0.99	0.02	C1910	1.08	0.04	
8	52	53	"	""	0.77	0.01				
9	53	54	"	"	1.62	0.03				
90	54	55	"	"	0.21	<0.01				
1	55	56	"	"	0.02	<0.01				
2	56	57	"	"	0.03	<0.01				
3	57	58	"	"	0.54	0.01				
4	58	59	"	"	1.04	0.01				
5	59	60	"	"	0.03	<0.01				
6	60	61	"	"	0.25	<0.01				
7	61	62	"	"	3.5	0.09	C1911	3.8	0.12	31m at 0.85% WO_3
8	62	63	"	"	0.02	<0.01				
9	63	64	"	"	0.21	<0.01				
700	64	65	"	"	0.83	<0.01				
1	65	66	"	"	0.85	0.01				
2	66	67	"	"	2.05	0.07				
3	67	68	"	"	3.05	0.07				
4	68	69	"	"	0.02	<0.01				
5	69	70	"	"	1.01	0.02				
6	70	71	"	"	0.02	<0.01				
7	71	72	"	"	0.31	<0.01	C1912	0.43	0.03	
8	72	73	"	"	0.26	<0.01				
9	73	74	"	"	0.05	<0.01				
10	74	75	"	"	0.59	0.01				
1	75	76	"	"	0.35	<0.01				
2	76	77	"	"	1.48	0.03	C1913	1.85	0.09	
3	77	78	"	"	0.18	<0.01				
1714	78	79	"	"	<0.01	<0.01				

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/5

LAB.	K.I.S.		LAB.	K.I.S.		LAB.	K.I.S.		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 1657	0.22	<0.01	C 1079	0.22	<0.01		0.21				
1667	0.02	<0.01	1080	0.06	<0.01		0.05				
1677	0.21	<0.01	1081	0.24	<0.01		0.22				
1687	0.99	0.02	1082	1.23	0.04		1.14				
1697	3.5	0.09	1083	3.5	0.12		3.50				
1707	0.31	<0.01	1084	0.36	0.01		0.34				
1712	1.48	0.03	1085	1.92	0.06		1.96				
C 1657	0.22	<0.01		0.23		C 1907	0.27	<0.01		0.26	
1667	0.02	<0.01		0.02		1908	0.04	<0.01		0.03	
1677	0.21	<0.01		0.22		1909	0.20	0.01		0.19	
1687	0.99	0.02		1.05		1910	1.08	0.04		1.06	
1697	3.5	0.09		3.40		1911	3.8	0.12		3.60	
1707	0.31	<0.01		0.35		1912	0.43	0.03		0.40	
1712	1.48	0.03		1.58		1913	1.85	0.09		1.85	

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/5

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 1693	0.54	0.01	D 2080	0.32	< 0.01						
1674	0.99	0.04	2081	0.97	0.04						
1661	0.28	0.01	2082	0.28	0.02						
1702	2.05	0.07	2083	2.25	0.09						
1710	0.59	0.01	2084	1.00	0.02						
1668	3.80	0.16	2085	4.40	0.19						
1684	1.23	0.02	2086	1.30	0.04						

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/5

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 1687	0.99	0.02	C 1060	1.09	0.029	D 0230	1.16	0.05				
C 1712	1.48	0.03	C 1054	1.85	0.035	0231	1.64	0.05				
C 1710	0.59	0.01	D 0242	1.00	0.014	D 0241	0.98	0.04				

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO. D120/5

0 - 14.32 **BIOTITE HORNFELS**

Pale grey green hangingwall biotite hornfels. Fine grained with no mineralisation. Bedding 6m 58°.

Spotting in the hornfels, 3.70 - 4.00
9.00 - 9.50
11.30 - 13.00

The first two spotted areas show dark grey brown spots usually less than 2mm dia. The third area shows spots up to 1cm dia. Bedding 12.0m 50°.

14.32 - 25.55 **PYROXENE GARNET HORNFELS**

Green pyroxene hornfels with white carbonate ovoids up to 5cm dia. rimmed by honey coloured grossular garnets. Weakly mineralised throughout.

25.55 - 26.95 **ACID DYKE**

Pale grey massive barren rock with volcanic texture. Lower contact is clearly defined.

Note that there is some brecciation in the overlying pgh between 23.0 - 26.5.

26.95 - 32.54 **PYROXENE GARNET HORNFELS**

Similar appearance to the pgh unit above but is almost totally unmineralised except for the occasional speck of scheelite.

32.54 - 39.85 **GARNET HORNFELS**

Typical medium to coarse grained andradite skarn, very highly mineralised in the form of fine desseminated scheelite.

The skarn is generally massive but there is some bedding evident between 38 - 40m. Bedding: 38.5m 55° L.A.O.C.

39.85 - 46.90 **MARBLE MARKER**

A very weakly mineralised sequence of marbles, biotite and pyroxene hornfels and minor developments of scheelite bearing skarn.

The marbles are grey and structureless but the hornfels exhibit some bedding. Bedding: 45m 50°.

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO. D 120/5

46.90 - 86.45 **BANDED GARNET HORNFELS**

Typical of the lower C lens unit.

It is an andradite skarn with interbedded barren bands of pyroxene hornfels. Bedding is clearly evident.

Bedding:

50m	40°
51m	45°
54m	45°
57m	60°
62.5m	70°
66m	65°

Moderate desseminated mineralisation to 57m but becoming less continuous below this depth.

In the interval 57 - 64m there is abundant barren green (ph) and white (ch) interbedded with minor scheelite, although there are some coarse grains.

No mineralisation below 77.5m. Lost core:

78.64 - 79.25	0.40m rec.
79.25 - 80.47	1.12m "
80.47 - 81.87	1.26m "
81.87 - 83.82	0.95m "
83.82 - 85.04	0.10m "
85.04 - 85.95	0.91m "
85.95 - 87.17	1.12m "

Bedding: 77m 60°.

86.45 - 99.97 **BANDED BIOTITE PYROXENE HORNFELS**

Thinly banded black (bh) and grey green (ah/ph) rock. The unit is unmineralised and badly broken, particularly 95 - 99.97m. The breakage is mainly parallel to the bedding. Bedding:

85m	35°
88m	30°
92m	40°
95m	40°.

99.97 E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: D 120/4

PLANNING

Proposer: M. J. Danielson Depth: 55m

Location: 220 120 E drive, entrance to B lens drive.

Purpose of hole: Oreblocking C lens

Co-ordinates: 220 120 E 564 110 N

Inclination: -65° Target depth:

Bearing: 360 °Grid °Magnetic

Target: E N

Approved by: M. C. Rogers Date: 1.4.74

SURVEY

Survey Co-ords: E N

Survey bearing: °Grid °Magnetic

Surveyed in by: Date:

Actual Co-ords: 564122.8 N 220122.7 E

R.L. of collar: -78.2 Inclination of hole:

Picked up by: D. Brown Date: 24.5.74

SUMMARY

Logged by: M. J. Danielson

Results: C lens 13 - 15m 2m @ 2.29% WO_3 51 - 55m 4m @ 1.57% WO_3
22 - 29m 7m @ 1.38% WO_3
31 - 38m 7m @ 2.52% WO_3
42 - 44m 2m @ 0.87% WO_3

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 24.5.74 Date terminated: 31.5.74

Casing:	Size :	BX				
	Depth:	1.52				
Core:	Size :	NQ	BQ			
	Depth:	1.52	70.41			

Wedge Runoff:

Wedge placed: Depth:

Proposed by: Approved by:

Reason:

Extension: Nil Final depth: 70.41m

Reason for termination: Hole passed through No. 3 Fault into quartzites.

Condition of hole on completion:

Casing : 1.52 BX remaining

Cemented: ~~Yes~~ No

Bore hole survey: Surveyed to 70.10m.

Water: Normal water pressure.

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 120/4

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 7.92	bh	8		clay/ chlorite	3m 67°	79	43	
7.92 - 28.41	pgh/gh	3				100	95	
28.41 - 46.33	bh/gph	5			32.92-35.66	89	80	bad ground 29.0-29.2m
					36.42-36.73	66		
					36.73-37.19	78		
					43.28-46.33	97		
46.33 - 54.74	bh/ph/gh	11		chlorite	46.33-47.24	50	50	bad ground 46.6-47.5m
54.74 - 70.41	q	7		clay		100	71	bad ground 57.2-58.0 69.1-70.0

FURTHER DATA & REMARKS (Compression Tests)

Core size: 0 - 1.52 NQ 1.52 - 70.41 BQ.

Contact with quartzite at 54.74m does not appear as a faulted one.

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO.D 120/4

Survey method : Multishot Camera
Final depth : 70.41m
Casing depth : 1.52m

Depth surveyed to : 70.10m
Date surveyed : 31.5.74
Surveyed by : G. Buckland
Checked by : M. J. Danielson

DEPTH	Bearing		Inclination		True Vertical depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		K W	N
0	360			-65			
15.24	359	350		-65°45'	13.90	1.09	6.16
30.48	359	350		-66	27.75	2.17	12.41
45.72	358	349		-66	41.68	3.33	18.50
60.96	359	350		-65°45'	55.57	4.47	24.67
70.10	358°30'	349°30		-65°45'	63.90	5.13	28.37

REMARKS

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. NO. D 120/4

SAMPLE NO.	DEPTH (METRES) From	To	Length	Length recovered	ELEMENTS WO_3	Mo	CARD NO	check WO_3	Assay Mo	COMMENTS
C 1584	11	12	1.0	1.0	0.03	<0.01				
1585	12	13	"	"	0.05	<0.01				
C 1501	13	14	"	"	2.46	0.07	C1903	0.89	0.01	2m @ 2.29% WO_3
2	14	15	"	"	2.12	0.19				
3	15	16	"	"	0.06	<0.01				
4	16	17	"	"	0.28	<0.01				
1505	17	18	"	"	0.14	0.01				
1586	18	19	"	"	0.04	<0.01				
7	19	20	"	"	0.04	<0.01				
1588	20	21	"	"	0.04	<0.01				
1506	21	22	"	"	0.21	<0.01				
7	22	23	"	"	1.34	0.02				
8	23	24	"	"	0.90	0.02	C1904	0.19	<0.01	
9	24	25	"	"	1.00	0.04				
10	25	26	"	"	2.60	0.09				7m @ 1.38% WO_3
1	26	27	"	"	2.08	0.09				
2	27	28	"	"	1.06	0.03				
3	28	29	"	0.87	0.68	0.02				
4	29	30	"	0.95	<0.01	<0.01				
5	30	31	"	0.92	<0.01	<0.01				
6	31	32	"	1.0	0.28	<0.01				
7	32	33	"	"	1.22	0.04				
8	33	34	"	0.81	0.70	0.01	C1905	0.72	0.02	7m @ 2.52% WO_3
9	34	35	"	0.85	6.00	0.19				
20	35	36	"	1.0	5.80	0.18				
1	36	37	"	0.80	0.45	<0.01				
2	37	38	"	0.90	3.20	0.13				
3	38	39	"	1.0	0.23	<0.01				
4	39	40	"	"	0.02	<0.01				
5	40	41	"	"	0.01	<0.01				

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. NO.D 120/4

SAMPLE NO.	DEPTH (METRES) From	To	Length	Length recovered	ELEMENTS WO_3	Mo	CARD N°	check WO_3	Assay Mo	COMMENTS
1526	41	42	1.0	1.0	0.11	<0.01				
7	42	43	"	"	0.96	0.01				2m at 0.87% WO_3
8	43	44	"	"	0.78	0.02	C1906	0.90	0.04	
C 1529	44	45	"	"	0.01	<0.01				
C 1530	50	51	"	0.90	<0.01	<0.01				
C 1531	51	52	"	0.93	5.20	0.12				4m at 1.57% WO_3
C 1532	52	53	"	0.95	0.68	0.01				
C 1589	53	54	"	1.0	0.10	<0.01				
C 1590	54	55	"	"	0.31	<0.01				

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/4

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 1501	2.46	0.07		2.74		C 1903	0.89	0.01		2.36		
1508	0.90	0.02		0.97		1904	0.19	0.01		1.05		
1518	0.70	0.01		0.78		1905	0.72	0.02		0.67		
1528	0.78	0.02		0.88		1906	0.90	0.04		0.88		
C 1501	2.46	0.07	C 1061	3.6	0.12		2.71					
1508	0.90	0.02	1062	1.42	0.04		1.23					
1518	0.70	0.01	1063	0.21	0.11		0.09					
1528	0.78	0.02	1064	1.00	0.04		0.86					
C 1502	2.12	0.19	D 2076	2.56	0.12							
1519	6.00	0.19	2077	6.30	0.25							
1513	0.68	0.02	2078	0.76	0.03							
1532	0.68	0.01	2079	0.62	0.01							

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/4

LAB.	K.I.S.		LAB.			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 1501	2.46	0.07	C 1052	2.01	0.054	D 0228	2.59	0.09				
1508	0.90	0.02	1053	1.25	0.047	D 0229	1.39	0.06				
C 1519	6.00	0.19	D 0240	5.25	0.10	D 0239	5.67	0.18				

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO.D 120/4

0 - 11.0 HANGINGWALL BIOTITE HORNFELS

Dark green to black massive fine grained biotite hornfels. Some bedding obvious at 4m 65° L.A.O.C.

Core is badly broken 0 - 1.5m but this is probably due to collaring.

11.0 - 23.7 PYROXENE GARNET HORNFELS

From 11.0 to 21.0 the rock is a typical pale green pgh with white carbonate fragments up to 50mms dia. rimmed by honey coloured grossular garnet.

From 21.0 - 23.7 the contact with the garnet skarn is gradational and the carbonate fragments are not so much in evidence.

The whole unit is only very weakly mineralised. The best sections of mineralisation are, 13.5 - 18.0
21.5 - 23.2.

The major part of the mineralisation is in isolated clusters of coarse grains up to 20mm dia. but generally less than 5mm dia.

23.7 - 29.0 GARNET SKARN

This is a fine grained pyroxene rich andradite skarn with only moderate mineralisation in form of very fine desseminations.

29.0 - 33.2 BIOTITE HORNFELS

Very bad ground 29.0 - 29.18, sheared etc. and may represent a fault. (Golak fault) SGE

This unit is mostly a dark purplish black barren fine grained biotite hornfels containing two sections of a mineralised andradite skarn, 31.30 - 31.50
32.3 - 32.7
Bedding 32.3 50° L.A.O.C.
32.9 60° L.A.O.C.

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO.D 120/4

33.2 - 43.85 GARNET PYROXENE HORNFELS

This is a variable unit consisting of fine to medium grained mineralised andradite skarns interbedded with zones of a pyroxene grossular garnet rock. This unit is typical of a weakly mineralised lower C lens skarn.

Bedding 35.7m 50° L.A.O.C.
42.0m 60° L.A.O.C.

Best zones of mineralisation are 34.25 - 35.74
36.73 - 37.90
41.50 - 42.56
42.80 - 43.90

43.85 - 46.63 BANDED FOOTWALL BEDS

Between 44.1 - 44.4 is the best example of unmineralised banded footwall beds. Bedding 44m 50° L.A.O.C.

Otherwise the remainder of this unit is a variable biotite pyroxene grossular garnet rock, no obvious bedding and no mineralisation.

46.63 - 47.24 Only 0.65 m recovered - core is only rubble.

47.24 - 54.74 FOOTWALL HORNFELS

This unit is a variable mixture of biotite, pyroxene, and grossular garnet, unbedded and mostly unmineralised.

Exceptions are small zones of a pyroxene rich weakly mineralised andredite skarn. eg. 48.82 - 48.94
51.58 - 52.0
54.44 - 54.80

Between 48.94 and 50.10 the unit is typical of thinly banded bh/ph.

Bedding 40° L.A.O.C. Abundant chlorite on joint surfaces.

54.74 - 70.41 QUARTZITE

The contact with the overlying hornfels is tight but there is a great deal of intermixing of the two rock types between 54.74 and 55.05.

The quartzite unit is barren grey massive and unmineralised.

Abundant clay on joint surfaces. Quality of core is good.
RQD = 71 %

70.41m E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: D 120/3

PLANNING

Proposer: M. J. Danielsom Depth: 60m

Location: 220 120 E Drill Cuddy Main decline

Purpose of hole: Locate Central Fault

Co-ordinates: 220 120 E 564040 N

Inclination: - 35° Target depth:

Bearing: 360° °Grid °Magnetic

Target: E N

Approved by: M.C.Rogers Date: 1/8/74

SURVEY

Survey Co-ords: E N

Survey bearing: °Grid °Magnetic

Surveyed in by: Date:

Actual Co-ords: 220 120.2E N 564 039.4

R.L. of collar: - 80.5 Inclination of hole:

Picked up by: M. Marchant Date: 12/8/74

SUMMARY

Logged by: M. J. Danielson

Results: C lens 47 - 54 7 m @ 1.02%

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 29/7/74 Date terminated: 1/8/74

Casing:	Size :	BX				
	Depth:	0.91				
Core:	Size :	NQ	BQ			
	Depth:	0.91	54.25			

Wedge Runoff:

Wedge placed: Nil Depth:

Proposed by: Approved by:

Reason:

Extension: Nil Final depth: 54.25 m

Reason for termination: Hole passed through Central Fault.

Condition of hole on completion:

Casing :

Cemented: Yes

Bore hole survey: Surveyed to 54.25 m.

Water: Normal water throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 120/3

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
					4m 10° 12m 15°			0-0.50m
	B lens			carbonate	14m 15°			rubble
0-38.40	hanging wall bh./B lens	8		3mm wide @ 7.38m. minor pyrite	34m 45° LAOC	101	83	
38.40-39.32	B lens	+20				33	33	Fault zone
39.32-54.25	pgh/gh	8		chlorite @ 40.65 carbonate in gh zone		100	71	

FURTHER DATA & REMARKS (Compression Tests)

1. Core size: 0-0.50 NQ
   0.50-54.25 BQ

CORE RECOVERY - DDH D 120/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED	% CORE RECOVERY
0 - 3.96	3.96	3.96	100
7.01	3.05	3.06	101
10.06	3.05	3.00	98
13.11	3.05	3.13	103
16.15	3.04	3.12	103
19.20	3.05	2.96	97
22.25	3.05	3.07	101
25.30	3.05	2.88	94
25.60	0.30	0.33	110
26.21	0.61	0.57	93
29.26	3.05	3.03	99
32.31	3.05	3.10	102
35.36	3.05	3.00	98
38.40	3.04	3.60	118
39.21	0.81	0.15	99
39.32	0.11	0.15	136
39.93	0.61	0.56	92
40.23	0.30	0.35	112
41.45	1.22	1.14	93
44.50	3.05	3.03	99
47.55	3.05	3.14	103
50.60	3.05	3.10	102
53.64	3.04	3.09	102
54.25	0.61	0.61	100

GEOPEKO LIMITED - Dolphin Mine

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO. 120/3

Survey method : Multishot camera
Final depth : 54.25m
Casing depth : 0.91m

Depth surveyed to : 54.25m
Date surveyed : 1/8/74
Surveyed by : G.B.
Checked by : G.L.B.

DEPTH	Bearing		Inclination		True Vertical depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		E N	N W
15.24	004°	355°	55°45	-34°15'	8.58	12.55	1.10
30.48	003°	354°	55°	-35°	17.32	24.97	2.40
~~40~~.72 45	003°	354°	55°	-35°	26.06	37.38	3.71
51.82	002°	353°	55°	-35°	29.56	42.34	4.32
54.25	002°	353°	55°	-35°	30.96	44.32	4.56

REMARKS

GEOPEKO LIMITED - Dolphin Mine

ASSAY DATA

D.D.H. NO.D 120/3

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO_3	Mo					
D2326	46	47	1.0	1.0	0.02	0.01					
7	47	48	1.0	1.0	0.37	0.02					
8	48	49	1.0	1.0	0.82	0.02					C Lens
9	49	50	1.0	1.0	1.40	0.06					7m
30	50	51	1.0	1.0	1.03	0.03					at
1	51	52	1.0	1.0	1.91	0.08					1.02%
2	52	53	1.0	1.0	0.62	0.02					
2333	53	54	1.0	1.0	0.97	0.04					

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/3

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 2327	0.37	0.02	D 0067	1.10	0.06	D 0066	1.39	0.07	D 0065	1.60	0.029
2333	0.97	0.04	0061	1.05	0.07	0060	1.11	0.075	0059	1.10	
2330	1.03	0.03	0064	1.11	0.07	0063	1.39	0.06	0062	1.09	0.021

GEOPEKO LIMITED - Dolphin Mine

GEOLOGICAL LOG

D.D.H. NO. D 120/3

00 - 32.56 B LENS HANGING WALL BIOTITE HORNFELS

Mostly a purplish brown barren finegrained biotite hornfels.

There are occasional areas where there is significant pale green (ph) or pale grey (actinolite).
e.g. 7.0 - 8.0 ph

Bedding.
4m	10° LAOC
12m	15° LAOC
14m	15° LAOC
15m	30° LAOC
23m	25°

32.56 - 38.40 B Lens

Mostly a palegreen pyroxene hornfels with minor developments of a grossular and andradite garnet skarn. No significant mineralisation.

Bedding. 34m 45° LAOC

Fault 38.40 - 39.32
Only 0.30m core recovered which represents 67% core loss.

39.32 - 47.40 Pyroxene Garnet Hornfels

A pale mottled green (ph) and pink (grossular garnet) rock with minor carbonate inclusions which are not typically the carbonate "pods" of a classical pgh. The unit contains no significant mineralisation. Minor coarse scheelite at 42.90 - 42.95.

47.40 - 54.25 Garnet Hornfels

Typical dark brown medium to coarse grained andradite skarn. No noticeable bedding and highly mineralised.

The core is not split beyond 54.0m to maintain continuity of 1m length splits.
E.O.H. 54.25

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: D 120/2

PLANNING

Proposer: M. J. Danielson Depth: 100m

Location: 220 120E Drill cuddy, main decline.

Purpose of hole: Oreblocking

Co-ordinates: 220 120 E 564 040 N

Inclination: -85° Target depth:

Bearing: 360° °Grid °Magnetic

Target: E N

Approved by: M. C. Rogers Date: 19.7.74

SURVEY

Survey Co-ords: E N

Survey bearing: °Grid °Magnetic

Surveyed in by: Date:

Actual Co-ords: 220119.9 E 564038.0 N

R.L. of collar: -80.5 m. Inclination of hole: -83°48'

Picked up by: M. G. Marchant Date: 23.7.74

SUMMARY

Logged by: M. J. Danielson

Results: B lens 15-17m 2m @ 1.28%WO_3

C lens 73-84m 11m @ 0.94%WO_3

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 19.7.74 Date terminated: 29.7.74

Casing:	Size :	BX	
	Depth:	1.47	
Core:	Size :	NQ	BQ
	Depth:	1.47	104.24

Wedge Runoff:

Wedge placed: Depth:

Proposed by: Approved by:

Reason:

Extension: NIL Final depth: 104.24m

Reason for termination: Hole passed into unmineralised footwall beds.

Condition of hole on completion:

Casing : BX 1.47m

Cemented: Yes

Bore hole survey: Surveyed to 104.24m

Water: Normal water return throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NOD 120/2

Survey method : Multishot Camera
Final depth : 104.24m
Casing depth : 1.22m

Depth surveyed to : 104.24m
Date surveyed : 26.7.74
Surveyed by : V. Powell
Checked by : G. Buckland

DEPTH	Bearing		Inclination		True Vertical depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		N	E
0							
15.24	011	002	6	-84	15.16	1.98	0.01
30.48	011	002	5°30'	-84°30'	30.33	3.47	0.03
45.72	009	358	5°30'	-84°30'	45.50	4.97 N	0.02 W
60.96	349	340	5	-85°	60.68	6.33	0.35
76.20	337	328	5°07'	-84°53'	75.86	7.54	0.99
91.44	340	331	5°03'	-84°53'	91.03	8.78	1.65
104.24	343	334	5°15'	-84°45'	103.78	9.82	2.30

REMARKS

Hole surveyed to 104.24m (E.O.H.) as the camera fell to the bottom.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 120/2

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 1.47	B lens hangingwall bh	14		clay, carbonate	0.5m 50° L.A.O.C.	100	34	
1.47 - 19.20	B lens hangingwall bh/host rocks	4		clay, minor carbonate /pyrite	2.08-3.96 otherwise	89% 100%	84	
19.20-37.49	B lens host rocks	5		carbonate	21m 65° 26m 68° 35m 65° L.A.O.C.	100	86	
37.49-70.56	C lens hangingwall bh	6		carbonate 3mm wide @ 38.70. chlorite @ 40.95 & 64.17. clay @ 64.47		100	85	bad ground 54.75-55.32 core is shattered, Fault?
70.56-76.81	pgh/gh/ marble marker	9		minor carbonate chlorite @ 72.60	76.5m 35 L.A.O.C.	98	73	bad ground 73.36-73.76 core slightly leached 70.56-71.18
76.81-89.00	marble marker/ lower C lens/ banded bph	7		minor clay, carbonate, pyrite @ 80.70	88m 75° L.A.O.C.	100	76	

FURTHER DATA & REMARKS (Compression Tests)

Core size: 0 - 1.47m NQ 1.47 - 104.24 BQ

For detailed % core recoveries within each interval consult core recovery page.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO.D 120/2

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
89.00-98.60	banded bph/ banded bh-ph-gh/marble	13		minor pyrite; carbonate @ 98.20	93m 65° 95m 75° L.A.O.C.	100	65	
98.60-104.24		14		abundant chlorite 103.0 - 104.0		103	49	bad ground 103.40 - 104.24

FURTHER DATA & REMARKS (Compression Tests)

CORE RECOVERY - DDH D 120/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 0.48	0.48	0.48	100
0.86	0.38	0.40	105
1.17	0.31	0.31	100
1.47	0.30	0.30	100
2.08	0.61	0.61	100
3.96	1.88	1.67	89
7.01	3.05	3.00	98
10.05	3.04	3.05	100
13.11	3.06	3.05	100
16.15	3.04	3.05	100
18.29	2.14	2.00	93
19.20	0.91	1.04	114
22.25	3.05	3.05	100
25.30	3.05	3.05	100
28.35	3.05	3.05	100
31.39	3.04	3.05	100
34.44	3.05	3.05	100
37.49	3.05	3.05	100
40.54	3.05	3.05	100
43.59	3.05	3.05	100
46.68	3.04	3.05	100
49.68	3.05	3.08	107
50.90	1.22	1.25	102
52.73	1.83	1.76	96
55.32	2.59	2.60	100
58.37	3.05	3.10	102
61.42	3.05	3.10	102
64.47	3.05	3.01	99
67.51	3.04	3.08	101
70.56	3.05	3.05	100
73.76	3.20	2.88	90
75.59	1.83	1.98	108
76.81	1.22	1.24	102
79.86	3.05	3.05	100
82.91	3.05	3.05	100
85.95	3.04	3.04	103
89.00	3.05	3.05	99
92.05	3.05	3.05	104
95.10	3.05	3.05	100
98.15	3.05	3.05	102
98.60	0.45	0.45	102
99.67	1.07	1.15	107
101.19	1.52	1.45	95
101.50	0.31	0.33	106
104.24	2.74	2.86	104

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. NO.D 120/2

SAMPLE NO.	DEPTH (METRES) From	To	Length	Length recovered	ELEMENTS WO_3	Mo	COMMENTS
C 1097	15	16	1.0	1.0	0.37	<0.01	B lens 2m
8	16	17	"	"	2.18	0.05	@ 1.28% WO_3
1099	17	18	"	"	0.02	<0.01	
C 1100	32	33	"	"	0.38	0.02	
D 2056	70	71	"	"	0.13	<0.01	
7	71	72	"	"	0.02	0.01	
8	72	73	"	"	0.13	<0.01	
9	73	74	"	0.86	1.61	0.04	
60	74	75	"	1.0	1.52	0.04	
1	75	76	"	"	0.03	<0.01	
2	76	77	"	"	0.02	<0.01	
2064	77	78	"	"	0.53	0.02	C lens
2063	78	79	"	"	0.70	0.02	11m @
2065	79	80	"	"	2.70	0.08	0.94% WO_3
6	80	81	"	"	1.04	0.03	
7	81	82	"	"	0.54	<0.01	
8	82	83	"	"	0.82	0.02	
9	83	84	"	"	0.88	0.01	
70	84	85	"	"	0.22	<0.01	
1	85	86	"	"	0.20	<0.01	
2	86	87	"	"	0.02	<0.01	
D 2073	87	88	"	"	<0.01	<0.01	

SPECIFIC GRAVITY

Determined by:

Depth (m) :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/2

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.
C 1097	0.37	< 0.01	D 0004	0.45	0.03	D 0003	0.43	0.025	D 0002	0.42	
1098	2.18	0.05	7	1.44	0.08	6	2.27	0.055	5	1.70	
D 2058	0.13	< 0.01	10	0.17	0.04	9	0.23	0.04	8	0.14	
2064	0.53	0.02	19	0.60	0.07	18	0.66	0.04	17	0.67	
2068	0.82	0.02	16	0.75	0.07	15	1.01	0.055	14	0.68	
2071	0.20	< 0.01	13	0.24	0.02	12	0.30	0.02	11	0.23	

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO. D120/2

0 - 13.40 B LENS HANGINGWALL BIOTITE HORNFELS

This unit is mostly a purplish-brown, barren fine grained biotite hornfels, with interbeds (up to 20cm) of pale green pyroxene hornfels.

The quality of core is good with no significant chlorite on fracture surfaces. There is minor pyrite.

There are several elongate patches of green pyroxene rimmed with a pale grey (actinolite?) mineral. The core of these structures usually exhibits some zoning. An example is at 8.66m where the elongate bleb measures 6cm X 2cm.

Bedding: 0.5m 50° L.A.O.C.

13.40 - 39.40 B LENS HOST ROCKS

This variety of rock types can be subdivided as follows:

Pyroxene Hornfels: 13.40 - 20.0

A pale green barren ph with some very pale pink grossular garnet. Very weak andradite skarn development at 18.7-18.9m.

There is minor coarse scheelite 15.80 - 15.95
16.73 - 16.88

Marble 20.0 - 37.4

Typical pale grey barren marble. Very minor grossular garnet in places and some andradite garnet 32.66-32.75 which has some weak desseminated scheelite.

The marble has some very dark carbonaceous(?) spotting 25.0-29.3m and 35.8 - 37.0.

Bedding: 21m 65°
26m 68°
35m 65°

Joint fillings are carbonate with some solutions moving along fracture surfaces at 26-27m with probably little structural strength.

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO. D 120/2

Pyroxene Hornfels 37.4 - 39.4
Very rubbly contact 37.4 - 37.5m which is typical of B lens marble contacts.

The unit is mostly a green ph with some pale pink grossular garnet and a small interbed of bh 37.8 - 38.1m.

The unit is unmineralised.

39.4 - 70.30 C LENS HANGINGWALL BIOTITE HORNFELS

A dark grey-brown fine grained barren hornfels. Minor pyroxene hornfels - particularly 40.45 - 42.85m. Minor carbonate veining - particularly 54.7 - 56.0m.

Some broken ground with minor chlorite on joint surfaces and some carbonate veining 54.7 - 55.3m. Minor brecciation.

70.30 - 73.40 PYROXENE GARNET HORNFELS

The unit is weakly leached and brecciated.

A green pyroxene rich rock with moderate pink grossular garnet and irregular patches of white carbonate. There are only occasional specks of scheelite so the unit is sub ore grade.

73.40 - 75.40 GARNET HORNFELS

Fine to medium grained brown andradite garnet skarn. Moderate to high grade mineralisation. This skarn is massive with no bedding.

75.60 - 77.20 MARBLE MARKER

A variety of rock types as follows:

Marble 75.40 - 76.25
Barren grey marble

Biotite Pyroxene Hornfels 76.25 - 76.85
Bedded green (ph) and grey (bh) rock. Minor grossular garnet. No mineralisation.

Bedding: 76.5m 35° L.A.O.C.

Marble 76.85 - 77.20
Barren grey marble.

GEOPEKO LIMITED - DOLPHIN MINE

GEOLOGICAL LOG

D.D.H. NO. D 120/2

77.20 - 87.30 LOWER C LENS

Banded andradite garnet skarn interbedded with barren green ph.

Bedding: 77m 60° L.A.O.C.

87.30 - 92.0 BANDED BIOTITE PYROXENE HORNFELS

Thinly banded purplish-brown (bh) and grey-green (pyroxene/ antinolite) rock. No mineralisation.

Bedding: 88m 75° L.A.O.C.

92.0 - 97.15 BANDED BH/PH/GH

Banded green (ph) brown (bh) and pink (grossular garnet). Minor carbonate. No mineralisation.

Bedding: 93m 65° L.O.A.C.
95m 75°

[redacted].15 - 97.80 MARBLE

Barren dirty grey marble. No bedding apparent.

97.80 - 104.24 BIOTITE HORNFELS

Pale grey brown fine grained barren hornfels. No apparent bedding.

Minor to moderate chlorite on joint surfaces.

104.24 E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: D 120/1

PLANNING

Proposer: M. Baker — Depth: 70 metres

Location: Dolphin Mine
-75 m Cross cut.

Purpose of hole: Test ground conditions. Locate No. 3 Fault.

Co-ordinates: 220120 E 564095 N

Inclination: Horizontal — Target depth: 50 metres

Bearing: 360 ISG°Grid — °Magnetic

Target: - E - N

Approved by: M. Baker — Date: 1.2.74

SURVEY

Survey Co-ords: - E - N

Survey bearing: 360ISG°Grid — °Magnetic

Surveyed in by: K.I.S. — Date: 1.2.74

Actual Co-ords: 220120 E 564094 N (approx.)

R.L. of collar: -75 m — Inclination of hole: Horizontal

Picked up by: Not picked up. — Date: -

SUMMARY

Logged by: P. Volk

Results: C lens. 38 - 43 m at 10.6% WO_3

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 2.2.74 — Date terminated: 4.2.74

Casing:	Size :	-
	Depth:	-
Core:	Size :	E
	Depth:	60.65

Wedge Runoff:

Wedge placed: — Depth:

Proposed by: — Approved by:

Reason:

Extension: Nil — Final depth: 60.65 metres

Reason for termination: Hole passed into quartzites north of No. 3 Fault.

Condition of hole on completion:

Casing : Nil

Cemented: Nil

Bore hole survey: No. E size hole.

Water: Hole made small amount of water - not measured.

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 120/1

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 10.00	bh	+ 20				95.0	22.9	
10.0 - 37.72	bh	12				98.0	56.6	
37.72 - 43.48	Pgh/gh	7				84.6	69.4	
43.48 - 50.00	bh/ph	10				85.6	55.9	
50.00 - 60.65	q	15				90.9	33.7	

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. NO. D 120/1

SAMPLE NO.	DEPTH (METRES) From	To	Length	Length recovered	ELEMENTS WO_3	Mo			Check WO_3	Check Mo	COMMENTS
C 0859	36	37	1.0		0.04	0.01					
60	37	38	"		0.19	0.01		C1150	0.22	<0.01	
1	38	39	"		2.3	0.05					5 m at 10.6% WO_3
2	39	40	"		8.8	0.19					
3	40	41	"		7.3	0.15					
4	41	42	"		13.4	0.31					
5	42	43	"		21.3	0.44		C1152	27.0	0.97	
C 0866	43	44	"		0.09	<0.01					

SPECIFIC GRAVITY

Depth (m) :

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/1

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 0860	0.19	0.01	D 2162	0.18	0.01	C 1737	0.22	0.01	D 2208	0.30	0.01	
0865	21.3	0.44	2161	27.9	1.08	1752	27.0	0.97	2233	26.8	1.04	
C 0860	0.19	0.01	D 2140	0.13	< 0.01	D 2412	0.12	<0.01				
0865	21.3	0.44	2141	30.5	1.19	2413	1.74	0.38				

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 120/1

LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.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 0865	21.3	0.44	D 0269	16.77	0.48	D 0270	17.2	0.33				

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. NO. D 120/1

0 - 37.70 BIOTITE HORNFELS

The biotite hornfels becomes more pyroxene rich from 31.15 metres. Finally the hornfels is mainly a light bluish green pyroxene hornfels, spotted with biotite. Bedding is not good. Carbonate veining is generally at greater than 45^{o} to core axis.

37.70 - 40.94 GARNET PYROXENE BIOTITE HORNFELS (Pgh?)

The garnet is grossularite and is in irregular pods or fragments. The unit is mainly a biotite pyroxene hornfels with interbedded garnet rich bands. Some quartz veining is present.

40.94 - 43.47 PYROXENE AND BIOTITE RICH APLITE?

This unit is highly mineralized from 37.80 m to 43.05 m. A complex rock with quartz and feldspar?, within irregular patches of pyroxene and biotite.

43.47 - 50.00 BIOTITE PYROXENE HORNFELS

A well bedded unit, becoming pyroxene rich and less well bedded from approximately 48 metres. Carbonate veining is common.

An aplite vein from 49.30 - 49.90 m contains biotite xenoliths.

50.00 - 60.65 TYPICAL GREY QUARTZITE

Moderately fractured, with sulphides, chlorite and carbonate on fractures. Molybdenite is scattered throughout. From 54.50 - 55.50 m the quartzite is very fractured with carbonate veining.

60.65 metres E.O.H.

GEOPEKO LIMITED

D.D.H. No.:	D 120/1		
Location:	220 120E Cross cut, Dolphin Mine.		
Purpose of Hole:	Test ground conditions ahead of cross cut and locate No. 3 Fault.		
Hole Proposed by:	M. Baker; Geopeko.	Date: Dec. 1973.	
Surveyed in by:	Not surveyed	Date: -	
Proposed:	No proposed co-ords. E	N	
Surveyed:	Not surveyed in. E	N	
Actual from which Drilled:	220 120E	564 094N	(These are approx. as collar was not picked up.)
Reduced Level of Collar:	-750 m		
Bearing:	360° I.S.G. Grid	Magnetic	
Inclination:	Horizontal degrees		
Target depth:	metres		
Planned depth:	60 metres		
Actual depth:	60.65 metres		
Date Commenced:	2-2-1974		
Date Completed:	4-2-1974		
Wedges Placed:	Nil		
Extensions (if any)	Nil		
Checked:	M. J. Danielson		
Summary Result:	Ground conditions were generally good. No. 3 Fault intersected at 50 metres.		
Remarks:	Hole drilled in E size core. No bore hole survey possible.		

DIAMOND DRILL LOG D.D.H. D 120/1

0 - 37.70 BIOTITE HORNFELS

The biotite hornfels becomes more pyroxene rich from 31.15 metres. Finally the hornfels is mainly a light bluish green pyroxene hornfels, spotted with biotite. Bedding is not good. Carbonate veining is generally at greater than 45° to core axis.

37.70 - 40.94 GARNET PYROXENE BIOTITE HORNFELS (Pgh?)

The garnet is grossularite and is in irregular pods or fragments. The unit is mainly a biotite pyroxene hornfels with interbedded garnet rich bands. Some quartz veining is present.

40.94 - 43.47 PYROXENE AND BIOTITE RICH APLITE?

This unit is highly mineralized from 37.80 m to 43.05 m. A complex rock with quartz and feldspar?, within irregular patches of pyroxene and biotite.

43.47 - 50.00 BIOTITE PYROXENE HORNFELS

A well bedded unit, becoming pyroxene rich and less well bedded from approximately 48 metres. Carbonate veining is common.

An aplite vein from 49.30 - 49.90 m contains biotite xenoliths.

50.00 - 60.65 TYPICAL GREY QUARTZITE

Moderately fractured, with sulphides, chlorite and carbonate on fractures. Molybdenite is scattered throughout. From 54.50 - 55.50 m the quartzite is very fractured with carbonate veining.

STRUCTURAL DATA D.D.H. D 120/1

Depth Interval (m)	Rock Quality Designator	Stability Index	Fractures / metre	Core loss %	Broken Core % (Core <7.5 cm)
0.0 - 5.0	13.4	+6.4	+20	3.0	74.2
5.0 - 10.0	32.3	+6.8	+20	7.0	54.2
10.0 - 15.0	54.4	4.5	15	0	39.8
15.0 - 20.0	43.5	4.8	15	3.4	43.5
20.0 - 25.0	47.6	3.5	12	0	38.0
25.0 - 30.0	64.3	3.6	8	11.6	10.0
30.0 - 35.0	60.7	3.7	11	3.2	24.6
35.0 - 37.72	68.9	3.1	10	0	25.7
37.72 - 43.48	69.4	3.7	7	15.4	17.5
43.48 - 50.00	55.9	4.4	10	14.4	38.2
50.00 - 55.00	17.8	5.8	15	12.6	63.2
55.00 - 60.65	49.6	4.7	14	5.5	42.2
SUMMARY					
0.0 - 10.00	22.9	+6.6	+20	5.0	64.2
10.0 - 37.72	56.6	3.9	12	3.0	30.3
37.72 - 43.48	69.4	3.7	7	15.4	17.5
43.48 - 50.00	55.9	4.4	10	14.4	38.2
50.00 - 60.65	33.7	5.3	15	9.1	52.7