

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 100/1

PLANNING

PROPOSER: A. Younger

DEPTH: 30m

LOCATION: C 68 Central Stope

PURPOSE OF HOLE: To Determine Exact Margins of Ore. For planning

CO-ORDS: 220100 E 564095 N

INCLINATION: +90

BEARING: 0° °GRID °MAG

TARGET: E N

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: °GRID °MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 220 098.0 E 564 093.9 N

R.L. OF COLLAR - 121.1

INCLINATION OF HOLE Vert

PICKED UP BY: RJH DATE: 14/12/79

SUMMARY

LOGGED BY: A. Younger

RESULTS: Lower C lens 0-8 m, 8m @ 0.49%WO<sub>3</sub>  
Lower C lens 12-17m, 5m @ 0.82%WO<sub>3</sub>  
Upper C lens 20-31m, 11m @ 1.54%WO<sub>3</sub>

DRILLING

DATE COMMENCED: 9/12/78 DATE TERMINATED: 12/12/78

DRILLER/CONTRACTOR: ADD

CASING: SIZE:  
DEPTH:

CORE: SIZE: 46TT  
DEPTH: 35m

WEDGE PLACED: DATE:

EXTENSION:

FINAL DEPTH: 35m

REASON FOR TERMINATION: In Barren Pyroxene garnet hornfels (Probably

CONDITION OF HOLE ON COMPLETION: B-lens: G. J. Bujtor)

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER: Nil

COMMENTS ON DRILLING CONDITIONS:

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CORE RECOVERY

D.D.H. No. D 100/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 1.8	1.8	1.7	94
1.8 - 3.20	1.4	1.4	100
3.20 - 6.10	2.9	3.0	103
6.10 - 8.50	2.4	2.4	100
8.50 - 11.20	2.7	2.7	100
11.30 - 11.20	2.9	3.0	103
14.20 - 17.20	3.0	3.0	100
17.20 - 18.40	1.2	1.4	116
18.40 - 21.20	2.8	2.85	102
21.20 - 24.00	2.8	2.85	102
24.00 - 27.00	3.0	3.0	100
27.00 - 29.70	2.7	2.7	100
29.70 - 30.5	0.8	0.7	87
30.5 - 32.00	1.5	1.8	120
32.00 - 35.00	3.0	3.0	100
35.00			<u>101</u>

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SUMMARY STRUCTURAL DATA

DDH No. D 100/1

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 - 17.5	Banded Gh	12					68	
17.5 - 22.30	M/M	3.5					73	
22.30 - 30.75	Gh	6.75					80	
30.75 - 35.0	Pgh	2.2.					52	

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

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ASSAY DATA

D.D.H. No. D 100/1

Sample No.	DEPTH (MEATRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO <sub>3</sub>	Mo		
D 8771	0	1	1.0	1.0	0.32	0.01		
72	1	2	"	"	0.49	0.01		
73	2	3	"	"	0.46	<0.01		
74	3	4	"	"	0.32	0.01		
75	4	5	"	"	<0.01	<0.01		
76	5	6	"	"	0.68	0.02		
77	6	7	"	"	1.18	0.01		
78	7	8	"	"	0.49	<0.01		
79	8	9	"	"	0.02	<0.01		
80	9	10	"	"	0.14	<0.01		
81	10	11	"	"	0.19	0.01		
82	11	12	"	"	0.20	<0.01		
83	12	13	"	"	0.34	<0.01		
84	13	14	"	"	0.68	0.03		
85	14	15	"	"	0.24	0.02		
86	15	16	"	"	0.93	0.02		
87	16	17	"	"	1.93	0.06		
88	17	18	"	"	0.20	0.01		
89	18	19	"	"	<0.01	<0.01		
90	19	20	"	"	<0.01	<0.01		
91	20	21	"	"	1.52	0.03		
92	21	22	"	"	0.36	0.02		
93	22	23	"	"	2.43	0.07		
94	23	24	"	"	0.37	<0.01		
95	24	25	"	"	2.42	0.07		
96	25	26	"	"	1.16	0.02		
97	26	27	"	"	1.82	0.06		
98	27	28	"	"	1.72	0.03		
99	28	29	"	"	1.50	0.04		
8800	29	30	"	"	1.99	0.04		
01	30	31	"	"	1.60	0.08		
02	31	32	"	"	0.03	0.01		

10 g (b)  
 m/m  
 2 h  
 1 h

SPECIFIC GRAVITY

Depth (metres);

Rock Type :

S.G. :

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 100/1

0.0 - 17.5m BANDED GARNET HORNFELS

Well bedded sequence of mainly pyroxene hornfels and andradite garnet hornfels. Minor biotite hornfels and marble units do occur. (eg 3.0 - 5.3m, 13.8 - 14.2m, 14.7 - 15.2m)

Bedding is very consistent:-

80°	to LCA @	3.0m
78°		8.6m
70°		15.0m

F/M average about 7 mainly at 70 - 80° to LCA.

Broken and/or faulted zones occur:

0.5 - 0.7m  
5.7 - 6.0m  
6.6 - 7.0m  
7.6 - 7.9m  
8.2 - 8.4m Fault clay and chlorite.  
13.7 - 13.8m  
14.7 - 14.8m  
15.8 - 15.9m  
16.7 - 16.8m and  
17.0 - 17.2m

17.2 - 22.3 MARBLE MARKER

Interbedded biotite hornfels, pyroxene hornfels, marbles and andradite and grossular garnet units towards the top of the unit.

Bedding is at 70 - 75° to the LCA.

F/M average about 9 mostly at 50 - 70° to the LCA. Broken zones occur:

19.75 - 19.85m  
21.45 - 21.55m  
22.1 - 22.2 m

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GEOLOGICAL LOG

D.D.H. No. D 100/1

22.3 - 30.75 GARNET HORNFELS

Massive andradite garnet hornfels with high grade disseminated scheelite mineralization. Except for the fault zone from 23.3 - 24.2m the F/M average about 5; mostly at 70 - 90° to the LCA.

Bedding/Banding do not occur.

Some calcite veining occurs eg 26.8 - 27.9m, 30.3 - 30.5m  
May indicate further minor faulting.

30.75 - 35.0 PYROXENE GARNET HORNFELS

Not typical pyroxene garnet hornfels it is considerably deformed probably by the fault occurring 30.9 - 31.4m. The latter part of the unit has the unaltered biotite hornfels matrix.  
Fault occur:

30.9 - 31.4m

31.9 - 32.0

34.4 - 34.6

Apart from these zones F/M average about 10 mainly at about 50 - 60° to the LCA.

Weak relic bedding is at about 15° to the LCA at 34.2m.

EOH 35.0m

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 100/1

Survey method: Not surveyed  
 Final depth: 35.00m  
 Casing depth: Nil

Depth surveyed to: -  
 Date surveyed: -  
 Surveyed by: -  
 Checked by: -

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected			
0	0	0	+90	+90	0	0	0
35m	0	0	+90	+90	35.00m	0	0
estimated by L. Denby							

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No.     D 100/1    

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	
8771	0.32	0.01	11814	0.43		11815	0.35		11816	0.29		
8781	0.19	0.01	11817	0.16		11818	0.24		11819	0.24		
8792	0.36	0.02	11820	0.57		11821	0.55		11822	0.31		

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 080/18

PLANNING PROPOSER: J. Clark DEPTH: 70m

LOCATION: 150m RL Hanging Wall Drill Drive

PURPOSE OF HOLE:

PROPOSED CO-ORDS: 220080 E 563975 N

INCLINATION:  $-80^{\circ}$

BEARING: ° GRID ° MAG

TARGET: E N

DEPTH:

CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N

SURVEYED BEARING:  $176^{\circ} 33'$  ° GRID ° MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 220081.4 E 563976.8 N

R.L. OF COLLAR: -148.9

INCLINATION OF HOLE:  $-80^{\circ} 44'$

PICKED UP BY: W. Davies DATE: 29/3/79

SUMMARY LOGGED BY: R. E. S. Davies

RESULTS: 25-29m, 4m @ 1.7%  $WO_3$   
49-54m, 5m @ 0.82%  $WO_3$

DRILLING DATE COMMENCED: 23/3/79 DATE TERMINATED: 28/3/79

DRILLER/CONTRACTOR: ADD

CASING: SIZE: BXTT  
DEPTH: 18.0m

CORE: SIZE: 46TT  
DEPTH: 67.60m

WEDGE PLACED: Nil DEPTH: PROPOSER:

EXTENSION: Nil

FINAL DEPTH: 67.60m

REASON FOR TERMINATION: In biotite hornfels/pyroxene hornfels

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY: Single shot

WATER:

COMMENTS ON DRILLING CONDITIONS: Good

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 080/18

Surveyed method: Single shot  
Final depth: 67.60m  
Casing depth: 18.00m

Depth surveyed to: 67.60m  
Date surveyed: 28/3/79  
Surveyed by: L. Denby  
Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		S	E
37.60	185	175	10° 15'	-79° 45'	37.00	6.60	.58
67.60	187	177	10° 45'	-79° 15'	66.48	12.25	.87

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No.                      D 080/18

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.0	2.0	2.0	100
2.0 - 3.5	1.5	1.5	100
3.5 - 6.5	3.0	3.0	100
6.5 - 9.1	2.6	2.6	100
9.1 - 12.1	3.0	3.0	100
12.1 - 15.1	3.0	3.0	100
15.1 - 17.0	1.9	1.9	100
17.0 - 18.5	1.5	1.5	100
18.5 - 21.2	2.7	2.7	100
21.2 - 24.3	3.1	3.1	100
24.3 - 26.3	3.0	3.0	100
26.3 - 27.2	0.9	0.9	100
27.2 - 29.6	2.4	2.4	100
29.6 - 31.3	1.7	1.7	100
31.3 - 32.9	1.6	1.6	100
32.9 - 34.7	1.8	1.8	100
34.7 - 36.1	1.4	1.4	100
36.1 - 37.7	1.6	1.6	100
37.7 - 40.7	3.0	3.0	100
40.7 - 43.7	3.0	3.0	100
43.7 - 46.7	3.0	3.0	100
46.7 - 49.7	3.0	3.0	100
49.7 - 52.7	3.0	3.0	100
52.7 - 55.7	3.0	3.0	100
55.7 - 58.7	3.0	3.0	100
58.7 - 61.7	3.0	3.0	100
61.7 - 64.7	3.0	3.0	100
64.7 - 67.6	2.9	2.9	100
EOH      67.6m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 080/18

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 - 25.20m	bh	8-5		Chl/clay/sulph/carb			66	
25.20 - 28.40	gh	4		Sulph/chl			99	
28.4 - 47.35	bh	5-12		Chl/clay/sulph/carb			69	
47.35 - 56.70	gh (banded)	8		Chl/carb/sulph			67	
56.70 - 67.60	bh/ph	8-10		Chl/sulph/carb/clay			68	
EOH 67.60m								

FURTHER DATA & REMARKS

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

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No.           D 080/18          

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO <sub>3</sub>	Mo		
D 10075	24	25	1.0	1.0	<0.01	0.01		
76	25	26	"	"	3.5	0.03		
77	26	27	"	"	1.31	0.02		
78	27	28	"	"	1.65	0.02		
79	28	29	"	"	0.34	0.01		
80	29	30	"	"	<0.01	0.01		
81	46	47	"	"	<0.01	0.01		
82	47	48	"	"	0.70	0.02		
83	48	49	"	"	0.05	0.01		
84	49	50	"	"	1.53	0.03		
85	50	51	"	"	0.32	0.01		
86	51	52	"	"	1.26	0.03		
87	52	53	"	"	0.54	0.02		
88	53	54	"	"	0.45	0.02		
89	54	55	"	"	0.15	0.01		
90	55	56	"	"	0.16	0.01		
91	56	57	"	"	0.01	0.01		
92	57	58	"	"	<0.01	0.01		
93	58	59	"	"	<0.01	0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. 080/18

0.0 - 25.20m BIOTITE HORNFELS

Fine grained dark brown to grey-greenish biotite hornfels with numerous pyroxene hornfels alteration zones and patches. Rare specks of scheelite are present.

The unit is slightly fractured and broken and difficult to determine when possible faults may be present.

The unit from 17.0 - 18.5m is very much disturbed, and in the last 70cm, bedding almost appears sub-parallel to LCA.

?Bedding 53° to LCA at 10.4m  
Bedding 12° 17.4m

25.20 - 28.40 ANDRADITE SKARN

Massive and coarse grained andradite skarn with medium to high grade disseminated scheelite present. Both the footwall and hangingwall contacts are marked by a pyroxene rich zone with actinolite(?). No obvious faults are present.

28.40 - 47.35 BIOTITE HORNFELS

Fine medium grained dark brown coloured biotite hornfels with no visible scheelite present.

A green, schistose - like rock occurs from 38 - 39.6m.

Evidence of micro faulting and fracturing is present throughout (ie around 36.8m)

47.35 - 56.70 BANDED SKARN - LOWER C-LENS

Well bedded sequence of andradite garnet, pyroxene hornfels, grossular garnet and biotite hornfels with variable amounts of disseminated scheelite present. From 53m onwards, the unit grades into biotite hornfels/pyroxene hornfels below with decreasing mineralisation.

The hangingwall contact is represented by a pyroxene - grossular rich rock (rehealed fault?) which appears somewhat disturbed.

No obvious faults are present.

Bedding 65° to LCA at 52m  
Bedding 71° 54m  
Bedding 66° 55.7m

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GEOLOGICAL LOG

D.D.H. No. D 080/18

56.70 - 67.60m BIOTITE HORNFELS/PYROXENE HORNFELS

Well bedded sequence of biotite hornfels/pyroxene hornfels with no scheelite mineralisation present.

Evidence of soft sediment deformation, and microfaulting is present.

Bedding	69 <sup>o</sup>	to LCA at	57.5m
Bedding	56 <sup>o</sup>		64.7m
Bedding	46 <sup>o</sup>		67.4m

Minor broken core is present. Fractured and leached biotite hornfels/pyroxene hornfels with open cavities occurs from 65.1 - 65.5m.

EOH 67.60m

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CHECK ASSAY DATA

D.D.H. No. D 080/18

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	
10079	0.34	0.01	11886	0.28	<0.01	11887	0.37		11888	0.24		
10090	0.16	0.01	11889	0.16	<0.01	11890	0.19		11891	0.14		

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 080/17

PLANNING PROPOSER: G. J. Bujtor DEPTH:  
LOCATION: 150, RL Hangingwall Drill Drive  
PURPOSE OF HOLE: To Define Pit Dag Orebody on Section  
PROPOSED CO-ORDS: 220080 E 563975 N  
INCLINATION:  $-70^{\circ}$   
BEARING:  $0^{\circ}$  GRID MAG  
TARGET: E N  
DEPTH:  
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N  
SURVEYED BEARING:  $0^{\circ} 10'$  GRID MAG  
SURVEYED IN BY: DATE:  
ACTUAL CO-ORDS: 220081.0 E 563977.1 N  
R.L. OF COLLAR: -148.9  
INCLINATION OF HOLE:  $-68^{\circ} 17'$   
PICKED UP BY: B. Davies DATE: 29/3/79

SUMMARY LOGGED BY: G. J. Bujtor  
RESULTS: 22-24m, 2m @ 0.34%  $WO_3$

DRILLING DATE COMMENCED: 16/3/79 DATE TERMINATED: 22/3/79  
DRILLER/CONTRACTOR: ADD  
CASING: SIZE: BXTT  
DEPTH: 1m  
CORE: SIZE: 46TT  
DEPTH: 54m  
WEDGE PLACED: Nil DEPTH: PROPOSER:  
EXTENSION:  
FINAL DEPTH: 54m  
REASON FOR TERMINATION: In clay, chlorite  
CONDITION OF HOLE ON COMPLETION:  
CASING:  
CEMENTED:  
BORE HOLE SURVEY: Single shot  
WATER:  
COMMENTS ON DRILLING CONDITIONS: Good

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No.     D 080/17    

Surveyed method: Single shot  
 Final depth: 54.00m  
 Casing depth: 1.00m

Depth surveyed to: 54.00m  
 Date surveyed: 22/3/79  
 Surveyed by: R. S. T. P.  
 Checked by: L. Denby

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.		N	W
24m	359 <sup>o</sup>	349 <sup>o</sup>	21 <sup>o</sup> 45'	-68 <sup>o</sup> 15'	22.29	8.73	1.70
54m	1 <sup>o</sup>	351 <sup>o</sup>	21 <sup>o</sup> 15'	-68 <sup>o</sup> 45'	50.25	19.47	3.40

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No.           D 080/17          

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	3.0	100
3.0 - 5.0	2.0	2.0	100
5.0 - 6.5	1.5	1.5	100
6.5 - 9.5	3.0	3.0	100
9.5 - 12.5	3.0	3.0	100
12.5 - 15.4	2.9	2.9	100
15.4 - 18.4	3.0	3.0	100
18.4 - 19.7	1.3	1.3	100
19.7 - 21.5	1.8	1.8	100
21.5 - 22.1	0.6	0.6	100
22.1 - 24.5	2.4	2.4	100
24.5 - 25.3	0.8	0.8	100
25.3 - 26.8	1.5	1.5	100
26.8 - 27.2	0.4	0.4	100
27.2 - 30.2	3.0	3.0	100
30.2 - 32.0	1.8	1.8	100
32.0 - 33.5	1.5	1.5	100
33.5 - 36.5	3.0	3.0	100
36.5 - 38.2	1.7	1.7	100
38.2 - 39.5	1.3	1.3	100
39.5 - 41.8	2.3	2.3	100
41.8 - 42.5	0.7	0.7	100
42.5 - 44.2	1.7	1.7	100
44.2 - 45.0	0.8	0.8	100
45.0 - 46.5	1.5	1.5	100
46.5 - 48.4	1.9	1.9	100
48.4 - 49.7	1.3	1.3	100
49.7 - 50.0	0.3	0.3	100
50.0 - 51.5	1.5	1.5	100
51.5 - 54.0(?)	2.5	2.5	100
EOH 54.0m			

100 broken/  
100 fault

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. D 080/17

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W R T/ L A O C)	% CORE RECO- VERY	R Q D	REMARKS (WEATHERING)
0.0 - 19.0	Bh	5		Chl/sulph/carb			89	
19.0 - 22.0	Bh	12		Chl/clay/sulph/carb			38	
22.0 - 22.1	<u>F A U L T</u>							
22.1 - 40.0	Bfb/bh/ph	8-12		Chl/clay/carb/sulph			63	
40.0 - 50.4	Bfb/bh/ph	6-15		Chl/clay/carb/sulph			48	
50.4 - 54.0	LV	9		Clay/chl			69	
EOH 54.0m								

FURTHER DATA & REMARKS

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

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No.      D 080/17

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO <sub>3</sub>	Mo		
D 10201	16	17	1.0	1.0	0.13	0.01		
02	17	18	"	"	0.29	<0.01		
03	18	19	"	"	0.17	<0.01		
04	19	20	"	"	0.07	0.02		
05	20	21	"	"	0.65	0.03		
06	21	22	"	"	<0.01	0.02		
07	22	23	"	"	0.33	0.02		
08	23	24	"	"	0.35	0.01		
09	24	25	"	"	0.03	0.01		
10	25	26	"	"	0.14	0.01		
11	26	27	"	"	0.66	0.02		
12	27	28	"	"	0.24	0.02		
13	28	29	"	"	0.28	0.01		
14	29	30	"	"	0.20	0.01		
15	30	31	"	"	0.07	0.01		
16	31	32	"	"	0.13	0.01		
17	32	33	"	"	0.06	0.02		
18	33	34	"	"	0.11	0.02		
19	34	35	"	"	0.32	0.03		
20	35	36	"	"	0.04	0.02		
21	36	37	"	"	0.07	0.02		
22	37	38	"	"	<0.01	0.02		
23	38	39	"	"	0.24	0.02		
24	39	40	"	"	<0.01	0.02		
25	40	41	"	"	4.4	0.08		
26	41	42	"	"	0.21	0.02		
27	42	43	"	"	0.03	0.02		
28	43	44	"	"	0.09	0.01		
29	44	45	"	"	0.01	0.02		
30	45	46	"	"	<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 080/17

0.0 - 15.80m BIOTITE HORNFELS

Brown coloured, fine to coarse grained biotite hornfels with minor pyroxene hornfels alteration zones and patches. The grained biotite hornfels occurs from approx. 12m onwards.

The top 1m of core is badly broken (blasting). Some broken core also occurs around 9.50m.

15.80 - 19.10 PYROXENE - SKARN

Green pyroxene rich rock with andradite and grossular garnet and some disseminated scheelite. Sulphides - chalcopyrite and pyrite - are common.

?Bedding  $45^{\circ}$  to LCA at 18.50m

19.10 - 22.0 BIOTITE HORNFELS

Disturbed and slightly fractured biotite hornfels. The core around 19.5m is very broken. Chlorite, carbonate and pyroxene is common.

22.0 - 22.10 FAULT

Major fault zone with sheared chlorite - clay pug and breccia. No scheelite present.

22.10 - 24.40 PYROXENE - GROSSULAR ROCK

Pyroxene grossular rich rock which resembles pyroxene garnet hornfels, but appears to be fractured and broken footwall beds which have been later rehealed.

Some shearing is evident in the biotite hornfels interbeds (schistose - like texture). Minor scheelite mineralisation is present.

24.40 - 48.40 BANDED FOOTWALL BEDS - BIOTITE/PYROXENE HORNFELS

Well bedded sequence of Banded footwall beds and/or biotite hornfels - pyroxene hornfels grading into each other, and consisting of biotite hornfels, pyroxene hornfels and grossular garnet interbeds. The unit is very patchily mineralised and low grade.

Badly broken core occurs around 25.3m, 26.0m, (some leaching; and disturbed), 44 - 45m.

Rehealed carbonate/sediment breccia occurs around 32.6m.

Bedding	$38^{\circ}$	to LCA	at	24.7m
Bedding	$53^{\circ}$			28.75m
Bedding	$59^{\circ}$			36.6m
Bedding	$58^{\circ}$			38.86m
Bedding	$40^{\circ}$			43.5m
Bedding	$65^{\circ}$			46.5m

$\bar{x} = 52^{\circ}$

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 080/17

48.40 - 50.40 PYROXENE HORNFELS/?ALTERED VOLCANICS

Greenish coloured unit which appears to be pyroxene hornfels and marbles overlying volcanics, or may possibly be altered lower volcanics.

No scheelite mineralisation is present.

A very clay rich pug zone (fault?) occurs from 49.7 - 50.0m.

50.40 - 54.0 LOWER VOLCANICS

Medium to coarse grained, spotted lower volcanics with visible clays on joints, but no scheelite.

EOH 54.0m

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No.     D.080/17    

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	
10203	0.17	<0.01	11892	0.21	<0.01	11893	0.23		11894	0.13		
10213	0.28	0.01	11895	0.28	<0.01	11896	0.31		11897	0.23		
10223	0.24	0.02	11898	0.20	<0.01	11899	0.22		11900	0.15		

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. D 080/16

PLANNING

PROPOSER: G. J. Bujtor DEPTH:  
LOCATION: K13 Cuddy Off Main Decline at 75m RL  
PURPOSE OF HOLE: To Define C-lens Central Area.  
CO-ORDS: 270 080 E 564078 N  
INCLINATION: -25  
BEARING: 0 °GRID °MAG  
TARGET: E N

SURVEY

SURVEY CO-ORDS: E N  
SURVEYED BEARING: 359°41' °GRID °MAG  
SURVEYED IN BY: DATE:  
ACTUAL CO-ORDS: 220079.8 E 564079.1 N  
R.L. OF COLLAR -72.7  
INCLINATION OF HOLE -24° 07'  
PICKED UP BY: B. Davies DATE: 4/1/79

SUMMARY

LOGGED BY: G. J. Bujtor  
RESULTS: 39-44, 5m @ 1.84% WO<sub>3</sub> (Upper C-Central)  
50-54, 4m @ 2.54% WO<sub>3</sub> (Lower C-Central)

DRILLING

DATE COMMENCED: 4/1/79 DATE TERMINATED: 26/1/79  
DRILLER/CONTRACTOR: ADD  
CASING: SIZE: BQ  
DEPTH: 1m  
CORE: SIZE: 46TT  
DEPTH: 62.74  
WEDGE PLACED: DATE:  
EXTENSION:  
FINAL DEPTH: 62.74m  
REASON FOR TERMINATION: Successfully Tested C-lens Central Area  
CONDITION OF HOLE ON COMPLETION:  
CASING:  
CEMENTED:  
BORE HOLE SURVEY: Surveyed to 62.74m  
WATER:  
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 080/16

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	3.0	100
3.0 - 4.54	1.54	1.54	100
4.54 - 6.66	1.12	1.12	100broken
6.66 - 7.78	1.12	0.9	80
7.78 - 8.73	0.95	1.0	105
8.73 - 9.23	0.50	0.5	100
9.23 - 10.83	1.60	1.60	100
10.83 - 12.14	1.31	1.1	84
12.14 - 13.23	1.09	1.1	101
13.23 - 14.64	1.41	1.41	100
14.64 - 15.73	1.09	1.2	110
15.73 - 17.72	1.99	1.99	100
17.72 - 19.68	1.96	1.96	100
19.68 - 20.89	1.21	1.0	83
20.89 - 23.96	3.07	3.07	100
23.96 - 26.86	2.90	2.90	100
26.86 - 29.92	3.06	3.06	100
29.92 - 30.54	0.62	0.80	129broken
30.54 - 31.63	1.09	1.09	100
31.63 - 34.58	2.95	2.95	100
34.58 - 37.58	3.0	3.0	100
37.58 - 40.55	2.97	2.97	100
40.55 - 43.54	2.99	2.99	100
43.54 - 46.53	2.99	2.99	100
46.53 - 49.26	2.73	2.73	100
49.26 - 52.27	3.01	3.01	100
52.27 - 55.14	2.87	2.87	100
55.14 - 56.80	1.66	1.66	100
56.80 - 59.75	2.95	2.95	100
59.75 - 62.74	2.99	2.99	100
EOH 62.74m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 080/16

Survey method: Single shot  
 Final depth: 62.74m  
 Casing depth: 1m

Depth surveyed to: 62.74m  
 Date surveyed: 30/1/79  
 Surveyed by: L. Denby  
 Checked by: G. J. Bujtor

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	W
0	359.66	349.66		-24.1	0	0	0
32.74	0	350	64.5	-25.5	14.09	29.10	5.13
62.74	358	348	64.5	-25.5	27.01	55.59	10.76
EOH	62.74m						

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D 080/16

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO <sub>3</sub>	Mo	
D 9191	31	32	1.0	1.0	<0.01	0.01	
92	32	33	"	"	<0.01	<0.01	
93	33	34	"	"	0.02	<0.01	
94	34	35	"	"	0.11	0.01	
95	35	36	"	"	<0.01	<0.01	
96	36	37	"	"	0.06	<0.01	
97	37	38	"	"	<0.01	<0.01	
98	38	39	"	"	<0.01	<0.01	
99	39	40	"	"	0.78	0.03	
9200	40	41	"	"	3.50	0.07	
01	41	42	"	"	2.46	0.04	
02	42	43	"	"	0.60	0.01	
03	43	44	"	"	0.80	0.03	
04	44	45	"	"	<0.01	<0.01	
05	45	46	"	"	0.26	0.02	
06	46	47	"	"	<0.01	0.01	
07	47	48	"	"	0.01	0.01	
08	48	49	"	"	<0.01	<0.01	
09	49	50	"	"	0.21	0.01	
10	50	51	"	"	1.76	0.08	
11	51	52	"	"	5.50	0.13	
12	52	53	"	"	3.30	0.07	
13	53	54	"	"	1.42	0.03	
14	54	55	"	"	0.11	0.01	
15	55	56	"	"	<0.01	0.01	
16	56	57	"	"	<0.01	0.01	

SPECIFIC GRAVITY

Depth (metres);

Rock Type :

S.G. :

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

DDH No. D 080/16

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 - 17.0	Bh	15		Ch1/clay/sulph cal		99	25	
17.0 - 31.63	Bh	8-10		Ch1/clay/sulph carb	56°:25.2m	100	65	
31.63 - 39.4	Pgh(?)	5		Ch1/clay/cal		100	84	
39.4 - 43.6	Gh	4		Ch1/cal/Qtz	45°:42.3	100	88	
43.6 - 50.8	m/m	6-8		Ch1/cal	39°:44m 40°:46.5m 32°:50.0m	100	84	Possible Fault 48.05m
50.8 - 54.3	Ch(banded)	6-7		Sulph/ch1/cal	35°:51.35	100	83	

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)  $\pm = \frac{\text{Length Core 10 cm}}{\text{Length Drilled}} \%$
3. Core size. 46TT

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 080/16

0.0 - 31.63m BIOTITE HORNFELS

Fine to medium grained dark brown to grey coloured Biotite hornfels with minor pyroxene alteration zones and patches. Minor metamorphic spotting from 9.5 - 15.0m

The core is quite fractured and broken from 0.0 - 17.0m and 29.5 - 31.63m, particularly from 5 - 8m (especially around 6.66m possible fault). The base of the unit may well be faulted and fractured. Some carbonate veining is present.

Bedding  $56^{\circ}$  to LCA 25.2m

31.63 - 39.40 PYROXENE GARNET HORNFELS

Not typical Pyroxene garnet hornfels but more like the pyroxene rich-grossular rocks associated with rehealed faults. This applies particularly to the top 3m of the unit.

However, a few calcite fragments and altered/replaced fragments are present - more so towards the base of the unit.

A possible fault (clay - pug) occurs around 32.45m

Very minor scheelite is present, but unlikely to be ore grade.

39.40 - 43.60 ANDRADITE SKARN - UPPER C

Coarse grained andradite skarn with fair-good disseminated scheelite. Pyroxene increases towards the base. The skarn is not as coarse grained as is usual for Upper C-lens. Some grossular is also present towards the base.

Bedding  $45^{\circ}$  to LCA at 42.3m

43.60 - 50.80 MARBLE MARKER

Typical marble marker consisting of dominantly marble and biotite hornfels with pyroxene hornfels and rare grossular. Rare scheelite is present. Bedding is well defined.

Bedding $39^{\circ}$	to LCA	at 44m
Bedding 40		46.5m
Bedding 45		48.6m
Bedding 32		50.0m

A possible fault occurs around 48.05m (leached marble).

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 080/16

50.80 - 54.30

ANDRADITE SKARN - LOWER C

Poorly bedded, coarse grained andradite skarn with good fine to coarse scheelite mineralisation. The base of the unit is pyroxene rich with minor grossular and grades into biotite hornfels pyroxene hornfels.

Bedding 35<sup>o</sup> to LCA at 51.35m  
Bedding 38 53.0m

54.3 - 62.74

BIOTITE - PYROXENE HORNFELS

Biotite hornfels pyroxene hornfels, minor marble. Typical banded pyroxene hornfels/pyroxene hornfels with the first four metres badly broken. Bedding also becomes more regular with depth.

Bedding 50<sup>o</sup> @ 56.6m  
62<sup>o</sup> @ 59.9m  
70<sup>o</sup> @ 62.0m

J/m 4-12

Fracture (fault?) zone at 55.1 - 56.0m

R.Q.D ( 10cm 4.7m)

EOH 62.74

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. D 080/16

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	
9199	0.78	0.03	11829	0.90		11830	0.81		11831	0.25		
9209	0.21	0.01	11832	0.23		11833	0.79		11840	0.59		

GEOPEKO - KING ISLAND

LOG OF D.D.H. No. D 080/15

PLANNING

PROPOSER: J. M. Clark DEPTH:  
LOCATION: K13 cuddy off Main Decline at 75 m R.L.

PURPOSE OF HOLE: To define C lens Central Area.

CO-ORDS: 220080 E 564078 N  
INCLINATION: -67  
BEARING: 0 °GRID °MAG  
TARGET: E N

SURVEY

SURVEY CO-ORDS: E N  
SURVEYED BEARING: 0°20' °GRID °MAG  
SURVEYED IN BY: DATE:  
ACTUAL CO-ORDS: 220079.7 E 564076.9 N  
R.L. OF COLLAR: -73.1  
INCLINATION OF HOLE: -66° 45'  
PICKED UP BY: B. Davies DATE: 4-1-1979

SUMMARY

LOGGED BY: G. J. Bujtor  
RESULTS: 38-50 m, 12 m @ 0.58 g W03 (Lower C-lens)

DRILLING

DATE COMMENCED: 13-12-78 DATE TERMINATED: 22-12-78

DRILLER/CONTRACTOR: A.D.D.

CASING: SIZE: BQ  
DEPTH: 1m

CORE: SIZE: 46TT  
DEPTH: 59.2m

WEDGE PLACED: DEPTH:

EXTENSION:

FINAL DEPTH: 59.2 m

REASON FOR TERMINATION: Successfully tested C lens Central Area.

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY: Surveyed to 59.2 m

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. D 080/15

Survey method: Singleshot Camera  
Final depth: 59.2m  
Casing depth: 1m

Depth surveyed to: 59.2m  
Date surveyed 19-12-78  
Surveyed by: L. Denby  
Checked by: A. Younger

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	W
0					0	0	0
29.2	357	347	24.25	-65.75	26.62	11.68	2.70
59.2	355	345	23.75	-66.25	54.08	23.35	5.83
EOH 59.2 m							

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 080/15

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 1.0	1.0	0.8	80
1.0 - 1.46	0.46	0.46	100
1.46 - 2.10	0.64	0.64	100
2.10 - 3.45	1.35	1.35	100
3.45 - 5.20	1.75	1.75	100
5.20 - 7.2	2.0	2.0	100
7.20 - 8.6	1.4	1.4	100
8.6 - 9.3	0.7	0.6	86
9.3 - 9.8	0.5	0.5	100
9.8 - 11.8	2.0	2.0	100
11.8 - 12.2	0.4	0.4	100
12.2 - 13.05	0.85	0.85	100
13.05 - 13.70	0.65	0.65	100
13.70 - 14.50	0.80	0.80	100
14.5 - 17.45	2.95	2.95	100
17.45 - 20.1	2.05	2.65	100
20.1 - 22.8	2.7	2.7	100
22.8 - 24.6	1.8	1.6	89
24.6 - 27.4	2.8	2.8	100
27.4 - 30.35	2.95	2.95	100
30.35 - 32.0	1.65	1.50	91
32.0 - 32.75	0.75	0.75	100
32.75 - 35.70	2.95	2.95	100
35.70 - 36.5	0.8	0.80	100
36.5 - 37.93	1.43	1.40	98
37.93 - 40.85	2.93	2.93	100
40.85 - 43.85	3.0	3.0	100
43.85 - 46.85	3.0	3.0	100
46.85 - 49.85	3.0	3.0	100
49.85 - 52.80	2.95	2.95	100
52.80 - 55.80	3.0	3.0	100
55.80 - 58.70	2.9	2.8	97
58.70 - 59.20	0.5	0.5	100
EOH 59.20 m			

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. D 080/15

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO <sub>3</sub>	Mo		
D 8913	25.0	26.0	1.0	1.0	0.09	0.01		
14	26	27	"	"	0.02	<0.01		
15	27	28	"	"	0.32	0.01		
16	28	29	"	"	0.62	0.02		
17	29	30	"	"	0.22	0.01		
18	37	38	"	"	0.01	<0.01		
19	38	39	"	"	0.47	0.01	↑ 12m @ 0.586 WO <sub>3</sub> ↓	
20	39	40	"	"	1.35	0.03		
21	40	41	"	"	0.59	0.01		
22	41	42	"	"	1.39	0.03		
23	42	43	"	"	0.50	0.01		
24	43	44	"	"	0.24	<0.01		
25	44	45	"	"	0.24	<0.01		
26	45	46	"	"	0.56	0.01		
27	46	47	"	"	0.37	0.01		
28	47	48	"	"	0.35	0.01		
29	48	49	"	"	0.47	0.01		
30	49	50	"	"	0.45	0.01		
31	50	51	"	"	0.12	<0.01		
32	51	52	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

DDH No. D 080/15

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.)	% COPE RECO- VERY	R.Q.D.	REMARKS (WEATHERING)
0.0 - 14.5	Bh	5-20		Chl, clay, sul, carb		99	25	
14.5 - 21.0	Bh	6		Chl, clay, sul, carb	61°:19.0m	100	72	
21.0 - 37.5	B lens M/M?	10-12		Chl, clay, cal, sulp		100	56	
37.5 - 37.93	<u>FAULT ZONE</u>							
37.93 - 51.65	L/C	5		Chl, clay, cal, sulp	66°:40.85m 70°:45.5 m 80°:50.0 m	100	87	
51.65 - 59.2	Bh/Ph	10		Chl, sulph, cal	85-90°:509m 65°:remainder	100	56	
EOH 59.2 m								

FURTHER DATA & REMARKS

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

GEOPEKO - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 080/15

0.0 - 21.25 m

BIOTITE HORNFELS

Fine grained grey to dark brown coloured biotite hornfels with occasional metamorphic spotting (10-14m).

The core is generally rather broken and fractured with some quartz-carbonate veining. Rubbly core occurs at the top of the hole (0-1.5 m) and also around 8.8m.

From 17m onwards, numerous actinolite hornfels (sulphides) zones are common.

So 61° to LCA at 19.9

21.25 - 34.9 m

B LENS

B lens consisting of the following subdivisions -

21.25 - 24.7 m Pyroxene-Grossular Rock Well bedded pyroxene hornfels - grossular rock with very minor biotite hornfels interbeds. Rare andradite is also present. Rubbly broken core occurs from 24-24.45 m. Only very rare scheelite mineralization is present.

24.7 - 25.8 m Coarse grained Tuffite ? with no visible mineralization.

25.8 - 29.6 m Skarn interbedded pyroxene, andradite/grossular skarn with minor scheelite mineralization.

29.6 - 32.85 m Tuffite ? Dark coarse grained tuffite of biotite hornfels with minor pyrite.

32.85 - 34.9 m Marble/Pyroxene Skarn Marble unit with hangingwall and footwall margins of pyroxene-skarn with minor scheelite. The pyroxene-skarn is some 50cm wide.

GEOPEKO - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 080/15

34.9 - 37.5 m

BIOTITE HORNFELS

Fine grained grey to brown coloured biotite hornfels with minor spotting. No visible scheelite is present.

37.5 - 37.93 m

SWAN FAULT (?)

Broken and fractured biotite hornfels probably representing the Swan Fault zone (appears to be closer to 37.93 than 37.5 m).

37.93 - 50.05 m

LOWER C LENS - BANDED SKARN

Typical well bedded Lower C lens consisting of interbeds of andradite skarn, grossular, pyroxene hornfels and very minor biotite hornfels. Good disseminated scheelite mineralization is present throughout.

The top of the unit, adjacent to the Fault (?) is rather pyroxene rich and rehealed (?).

A fault breccia (3cm wide) occurs at 40.75m

So	66°	to	LCA at	40.85 m
So	61°	to	LCA at	43.1 m
So	70°	to	LCA at	45.5 m
So	77°	to,	LCA at	47.8 m
So	80°	to	LCA at	50.0 m

50.05 - 51.65

BANDED FOOTWALL BEDS

Well bedded banded footwall beds consisting of abundant grossular and pyroxene hornfels interbeds with some biotite hornfels and unreplaced marble. Some andradite is also present, as is minor scheelite mineralization.

So 85-90° to LCA at 50.9 m

GEOPEKO - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 080/15

51.65 - 59.20 m

BIOTITE HORNFELS/PYROXENE HORNFELS

Fine grained well bedded biotite hornfels/pyroxene hornfels with bedding at 65° to LCA.

The core is somewhat broken from 51.65 - 52.8 m with a FAULT BRECCIA (5 cm wide) at 52.65 m. The sediments on the H/W side of the fault are very disturbed.

Some rubbly core occurs around 58.5 - 58.9 m.

No scheelite mineralization is present.

EOH 59.20 m

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. D 080/15

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	Check Sample No	WO <sub>3</sub>	Mo	
8917	0.22	0.01	11823	0.20		11824	0.23		11825	0.15		
8925	0.24	<0.01	11826	0.21		11827	0.24		11828	0.22		

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. Dolphin 080/14

PLANNING

Proposer: M.J. Danielson Depth: 140m

Location: Junction K-9/J9 -150m R.L.

Purpose of hole: Test mineralisation south to granite contact

Co-ordinates: 220 080 E 543 975 N  
Inclination: -45° Magnetic:  
Bearing 180° Grid Target Depth:  
Target: E N  
Approved by: M.C. Rogers Date: 1/6/77

SURVEY

Survey Co-ords: E N  
Survey bearing: 180° 00' Grid Magnetic:  
Surveyed in by: Date:  
Actual Co-ords: 220 080.29 E 563 971.08 N  
R.L. of Collar: F - 149.0 Inclination of Hole: -45° 50'  
Picked up by: RJH Date: 26/6/77

SUMMARY

Logged by: M. Danielson  
Results: B lens 14 - 16m, 2m @ 0.66% WO<sub>3</sub>  
No C lens mineralisation

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 22/6/77 Date terminated: 7/7/77

Casing:	Size:	BXTT		
	Depth:	1m		
Core:	Size:	46TT		
	Depth:	148.0		

Wedge Runoff:

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

Extension: Nil

Reason for termination: Hole in granite

Condition of hole on completion:

Final depth: 148.0

Casing: Nil

Cemented: Yes

Bore hole survey: Surveyed to 61m

Water: Nil

Comments on drilling conditions: -

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. Dolphin 080/14

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.7	1.7	1.6	94
2.4	0.7	0.7	100
6.2	3.8	3.8	100
9.2	3.0	3.0	100
12.2	3.0	3.1	103
15.3	3.1	3.0	97
18.3	3.0	3.0	100
21.3	3.0	3.0	100
24.3	3.0	3.0	100
27.3	3.0	3.0	100
30.3	3.0	3.0	100
33.3	3.0	3.0	100
36.3	3.0	3.0	100
39.3	3.0	3.0	100
42.0	2.7	2.6	96
45.0	3.0	2.9	97
47.7	2.7	2.65	98
50.7	3.0	3.0	100
51.4	0.7	0.7	100
54.3	2.9	2.7	93
57.3	3.0	3.0	100
60.3	3.0	3.0	100
63.3	3.0	3.0	100
66.3	3.0	3.0	100
69.3	3.0	3.0	100
71.3	2.0	2.3	115
73.5	2.2	2.1	95
76.5	3.0	3.0	100
78.3	1.8	1.8	100
80.1	1.8	1.9	105
82.3	2.2	2.1	95
85.3	3.0	3.0	100
88.3	3.0	2.9	97
91.1	2.8	2.7	96
92.8	1.7	1.6	94
94.0	1.2	1.1	92
97.0	3.0	3.0	100
99.0	2.0	1.9	95
101.8	2.8	2.7	96
104.8	3.0	3.0	100
107.8	3.0	3.0	100
110.8	3.0	2.85	95
113.8	3.0	3.0	100
116.8	3.0	2.9	97
119.8	3.0	2.95	98

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. Dolphin 080/14

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
122.8	3.0	2.95	98
125.8	3.0	2.95	98
128.8	3.0	2.9	97
131.8	3.0	3.0	100
134.8	3.0	3.0	100
137.0	2.2	2.1	95
140.0	3.0	3.0	100
143.00	3.0	3.0	100
146.0	3.0	3.0	100
148.0	2.0	2.0	100
EOH			

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. DOLPHIN 080/14

Survey method: Multishot camera  
Final depth : 148.0m  
Casing depth : 1m

Depth surveyed to: 61m  
Date surveyed: 7/7/77  
Surveyed by : L. Denby  
Checked by : M. Danielson

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
22	181	171	44.25	45.75	15.76	15.17	2.40
40	184	174	44	46	28.70	27.61	3.93
61	182.5	172.5	44	46	43.81	42.06	5.89
101	182.5	172.5	44	46	72.57	69.62	9.53
148	182.5	172.5	44	46	106.36	102.00	13.8

REMARKS: Unsurveyed below 61m due to caving in hole.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D080/14

Depth Interval (metres)	Rock Type	Frac- tures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Reco- very	R.Q.D.	Remarks (weathering)
0 - 9.2	bh	5		clay minor carbonate		99	68	
9.2 - 36.3	B lens ph ch	4		carbonate		100	86	
36.3 - 54.3	tuffite lv	7		clay		97	71	<u>pug zone</u> 51.0 - 51.7
54.3 - 66.3	ch	4		carbonate		100	82	
66.3 - 99.0	bh	7		clay	67m: 45°	99	72	<u>possible</u> <u>fault</u> carbonate filled breccia
99.0 - 131.8	bh	4		clay		98	88	
131.8 - 140.0	pgh	4		clay minor carbonate		99	82	
140.3 - 148.0	granite	7		clay		100	70	

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - D080/14

ASSAY DATA

D.D.H. No. D080/14

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO <sub>3</sub>	Mo	
D5882	14	15	1.0	1.0	0.46	0.01	
3	15	16	"	"	0.86	0.03	
D5884	132	133	1.0	1.0	<0.01	<0.01	
5	133	134	"	"	<0.01	<0.01	
6	134	135	"	"	<0.01	<0.01	
7	135	136	"	"	<0.01	<0.01	
8	136	137	"	"	<0.01	<0.01	

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D080/14

0 - 7.8

BIOTITE HORNFELS

Barren pale grey fine grained hornfels.

7.8 - 69.0

B LENS

Pyroxene Hornfels 7.8 - 17.10

Dominantly a pale green ph. Minor bh and some garnet. Developed to a gph skarn 14.3 - 16.0 with minor disseminated scheelite.

Marble 17.10 - 36.3

Barren grey marble. Minor disseminated scheelite between 24.0 - 24.3.

Tuffite (?) 36.3 - 48.0

This unit is very similar in appearance to lower metavolcanics Pale grey green in colour heavily flecked with brown mica.

Marble 48.0 - 49.7

Barren white ch.

Tuffite 49.7 - 54.3

As above. Clay pug zone developed 51.0 - 51.7m.

Marble 54.3 - 64.5

Barren grey ch.

Biotite pyroxene hornfels 64.5 - 69.0

Interbedded grey green hornfels - minor grossular garnet.

69.0 - 132.0

BIOTITE HORNFELS

Barren grey brown fine grained biotite hornfels.

132.0 - 140.8

PYROXENE GARNET HORNFELS

Very pyroxene rich unit containing carbonate ovoids up to 10cm dia. Very weak disseminated scheelite.

Aplite 137.0 - 138.8

139.7 - 140.1

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Dolphin 080/14

140.8 - 148.0  
EOH

GRANITE

Barren fine to medium grained pink granite

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 080/14

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			HOLE No.
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	
5883	0.86		6596	0.86		6597	1.00		6598	0.98		D 080/14

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 080/13

PLANNING

Proposer: M. Danielson

Depth: 80

Location: K 10 -150R.L.

Purpose of hole: C lens testing

Co-ordinates: 220 080 E 563975

Inclination: -53

Bearing 180° Grid

Target: E

Approved by: M.C. Rogers

N  
Magnetic:  
Target Depth:  
N  
Date: 1/1/77

SURVEY

Survey Co-ords: E

Survey bearing: 183° 00' Grid

Surveyed in by:

Actual Co-ords: 220 080.3 E 563 975.7

R.L. of Collar: F-149.1

Picked up by: R.J.H

N  
Magnetic:  
Date:  
N  
Inclination of Hole: -55° 30'  
Date: 3/2/77

SUMMARY

Logged by: M. Danielson

Results: B lens 26 - 28m, 2m @ 0.31% WO<sub>3</sub>  
C lens 76 - 81m, 5m @ 2.43% WO<sub>3</sub>

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 24/1/77

Date terminated: 1/2/77

Casing:	Size:	BX		
	Depth:	1m		
Core:	Size:	46TT		
	Depth:	88.0m		

Wedge Runoff:

Wedge placed:

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Hole into unmineralised footwall hornfels.

Condition of hole on completion:

Final depth: 88.0m

Casing: 1m

Cemented: NO

Bore hole survey: Surveyed to 88m

Water: No

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. DOLPHIN 080/13

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.3	3.3	2.92	88
6.5	3.2	2.96	93
9.5	3	3.01	100
12.5	3	3.05	102
15.5	3	2.92	97
18.5	3	2.94	98
21.5	3	3.05	102
24.5	3	2.96	99
27.5	3	2.97	99
30.5	3	2.92	97
33.5	3	2.95	98
36.5	3	2.97	99
39.5	3	2.94	98
42.5	3	2.96	99
44.5	2	1.91	96
46.0	1.5	1.58	105
49.0	3	2.96	99
52.0	3	2.99	100
55.0	3	2.96	99
58.0	3	3.00	100
61.0	3	3.00	100
64.0	3	3.1	103
67.0	3	3.0	100
70.0	3	3.0	100
72.0	3	3.0	100
76.0	3	3.0	100
79.0	3	3.0	100
82.0	3	3.0	100
85.0	3	3.0	100
88.0	3	3.0	100

E.O.H.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. Dolphin 080/13

Survey method: Multishot camera

Final depth : 88.0m

Casing depth : 1m

Depth surveyed to: 88m

Date surveyed: 1/2/77

Surveyed by : A.T.

Checked by : M.D

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
15	185	175	35	55	12.29	8.57	0.75
40	184	174	34	56	33.06	22.38	2.35
55	182	172	34	56	45.49	30.69	3.60
70	185	175	33	57	58.07	38.81	4.48
88	185	175	33	57	73.17	48.57	5.45

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. Dolphin 080/13

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Reco- very	R.Q.D.	Remarks (weathering)
0 - 9.5	bh	6		clay		94	73	
9.5 - 49.0	B lens	5		clay carbonate	40m: 40°	99	84	
49.0 - 70.0	bh	4		clay minor carbonate		100	88	
70.0 - 88.0	pgh gh bfb	6		carbonate	80m: 70° 85m: 65°	100	70	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation)  $\pm \frac{\text{length core } > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size. 34.5mms dia.

GEOPEKO LIMITED - Dolphin

ASSAY DATA

D.D.H. No. D 080/13

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO <sub>3</sub>	Mo		
D 5423	26	27	1.0	1.0	0.35	0.02	B lens 2m @ 0.31% WO <sub>3</sub>	
5424	27	28	"	"	0.28	0.01		
D 5425	74	75	1.0	1.0	< 0.01	< 0.01	C lens 76- 81m 5m @ 2.43% WO <sub>3</sub>	
6	75	76	"	"	< 0.01	< 0.01		
7	76	77	"	"	4.17	0.15		
8	77	78	"	"	3.76	0.12		
9	78	79	"	"	2.07	0.08		
30	79	80	"	"	1.99	0.06		
1	80	81	"	"	0.33	0.02		
2	81	82	"	"	0.17	0.01		
3	82	83	"	"	0.20	0.01		
4	83	84	"	"	< 0.01	< 0.01		
5	84	85	"	"	< 0.01	< 0.01		
6	85	86	"	"	0.74	0.03		
7	86	87	"	"	0.68	0.03		
D 5438	87	88	"	"	0.09	0.01		

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/13

LAB. K.I.S.			LAB. K.I.S.			LAB. AMDEL			LAB. A.C.S.L.		
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo
D5424	0.28	0.01	D5571	0.24		D5572	0.37		D5573	0.29	
D5436	0.74	0.03	D5574	0.70		D5575	0.82		D5576	0.72	

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Dolphin 080/13

0. - 9.5

BIOTITE HORNFELS

Barren grey massive biotite hornfels. Very minor pale green pyroxene interbeds.  
Aplite 7.7 - 8.0m.

Below 9.0m frequency of green pyroxene interbeds increases.

9.5 - 49.0

B LENS

9.5 - 10.0 biotite pyroxene <sup>hornfels</sup> ~~interbeds~~  
Barren grey green hornfels.

10.0 - 28.0 marble

Barren grey marble. Very weak mineralisation 26.1 - 28.3m

28.0 - 37.4 mottled hornfels

Basically a barren massive grey biotite hornfels containing flecks of biotite and is vaguely similar to lower metavolcanics.

Below 33m core is white speckled and has a 'flaggy' appearance.

37.4 - 44.0 marble

Mostly a barren grey marble. Very minor mineralisation

42.8 - 42.9m.

43.8 - 44.0m.

44.0 - 49.0 spotted biotite hornfels

Barren grey massive biotite hornfels with black spots (1mm dia)

49.0 - 70.2

BIOTITE HORNFELS

Barren grey brown massive biotite hornfels. Quality of core is good.

70.2 - 76.3

PYROXENE GARNET HORNFELS

Typical green pyroxene and pale pink brown grossular garnet groundmass with white carbonate pods up to 5cm diameter.

Very weak mineralisation and unit would be sub oregrade.

76.3 - 80.1

GARNET HORNFELS

Medium grained andradite garnet skarn. High grade disseminated mineralisation.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. DOLPHIN 080/13

80.1 - 88.0      BANDED FOOTWALL BEDS

Mostly a barren marble unit with minor biotite pyroxene and grossular garnet interbeds. Minor andradite skarn developed 85.5 - 86.6 but unit is otherwise unmineralised .

88.0m    E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/13

LAB.		K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			HOLE No.
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo		
5428	3.76		6608	3.76		6609	3.49		6610	3.28		D 080/13	
5436	0.74		6581	0.64		6582	0.79		6583	0.73		"	

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 080/2

PLANNING

Proposer M. Danielson

Depth: 70m

Location: K10 -150m R.L.

Purpose of hole: C lens oreblocking

Co-ordinates: 220080 E 563975

Inclination: -68°

Bearing 180 Grid

Target: E

Approved by: M. Rogers

N

Magnetic:

Target Depth:

N

Date: 1/1/77

SURVEY

Survey Co-ords: E

Survey bearing: 181° 20' Grid

Surveyed in by:

Actual Co-ords: 220 080.3 E 563 976.1

R.L. of Collar: F - 149.2

Picked up by: A.J.H.

N

Magnetic:

Date:

N

Inclination of Hole: -68° 20'

Date: 3/2/77

SUMMARY

Logged by: M. Danielson

Results: B lens 9 -15m 6m @ 1.25% WO<sub>3</sub>  
C lens 61-66m 5m @ 0.46% WO<sub>3</sub>

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 17/1/77

Date terminated: 24/1/77

Casing: Size: BX

Depth: 1m

Core: Size: 46TT

Depth: 76.0

Wedge Runoff:

Wedge placed:

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Hole into unmineralised footwall hornfels

Condition of hole on completion:

Final depth: 76.0m

Casing: 1.0m

Cemented: No

Bore hole survey: Surveyed to 76m

Water: No

Comments on drilling conditions: -

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 080/12

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3m	3	2.67	89
6.5	3.5	3.50	100
9.5	3	3.01	100
12.5	3	2.91	97
15.5	3	2.91	97
18.6	3.1	3.04	101
21.6	3	2.92	97
24.6	3	2.95	98
27.6	3	3.00	100
30.6	3	2.95	98
33.6	3	3.00	100
36.6	3	2.82	94
39.6	3	2.94	98
42.6	3	2.88	96
44.6	2	1.95	98
46.0	1.4	1.59	114
49.0	3	2.98	99
52.0	3	2.93	98
55.0	3	2.98	99
58.0	3	2.95	98
61.0	3	3.0	100
64.0	3	3.0	100
67.0	3	3.0	100
70.0	3	3.0	100
73.0	3	3.0	100
76.0	3	3.0	100
EOH			

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 080/12

Survey method: Multishot camera

Final depth : 76.0m

Casing depth : 1.0m

Depth surveyed to: 76.0

Date surveyed: 21/1/77

Surveyed by : A.M.T.

Checked by : M.J.D.

Depth	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	E
4	182	172	21	-69	3.73	1.43	0.20
25	184	174	21	-69	23.33	8.92	0.98
40	184	174	20	-70	37.37	14.17	1.49
58	190	180	20	-70	54.21	20.52	1.74
76	190	180	19	-71	71.18	26.53	1.79

REMARKS :

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No.D 080/12

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 - 9.5	bh	5		clay minor carbonate		97	71	
9.5 - 18.6	B lens	8		clay carbonate		97	62	Fault? 18.5-18.7
18.6 - 61.0	bh ph B lens	4		clay carbonate	37m: 60° 42m: 75°	99	80	
61.0 - 67.0	pgh	6		clay carbonate		100	55	broken ground 63.5 - 64.0 65.5 - 66.5 Probably <u>not</u> due to faulting
67.0 - 76.0	bh/ph	8		clay	67m: 75° 75m: 55°	100	83	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation)  $\pm \frac{\text{length core } >10 \text{ cms}}{\text{length drilled}} \%$
- Core size. 34.5mm dia.

ASSAY DATA

D.D.H. No. D 080/12

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO <sub>3</sub>	Mo		
D5384	8	9	1.0	1.0	< 0.01	0.01		
5	9	10	"	"	0.93	0.03		
6	10	11	"	"	2.64	0.08		B lens 9 - 15m
7	11	12	"	1 "	0.54	0.03		6m @ 1.25% WO <sub>3</sub>
8	12	13	"	"	0.98	0.04		
9	13	14	"	"	1.64	0.06		
90	14	15	"	"	0.78	0.03		
1	15	16	"	"	0.15	< 0.01		
2	16	17	"	"	0.17	0.01		
539	17	18	"	"	< 0.01	< 0.01		
5394	61	62	1.0	1.0	0.79	0.03		
5	62	63	"	"	0.60	0.04		
6	63	64	"	"	0.04	< 0.01		C lens 61 - 66m
7	64	65	"	"	0.25	0.01		5m @ 0.46% WO <sub>3</sub>
5398	65	66	"	"	0.63	0.03		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. # 080/12

LAB.		K.I.S.		LAB.			K.I.S.			LAB.			AMDEL			LAB.			A.C.S.L.		
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	
D5385	0.93	0.03	D5565	0.94		D5566	1.06		D5567	0.78											
D5398	0.63	0.03	D5568	0.57		D5569	0.67		D5570	0.68											

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. DOLPHIN 080/12

0. - 9.0 BIOTITE HORNFELS  
Barren grey massive biotite hornfels.
- 9.0 - 18.5 B LENS  
Variable mineralisation 9.3 - 17.2m.  
9.0 - 14.2 garnet pyroxene hornfels  
Fine grained pyroxene rich grossular garnet skarn  
14.2 - 18.5 marble  
Fine grained grey mineralised marble.
- 18.5 - 18.7 FAULT (?)  
Sheared ~~marble~~ biotite hornfels with montmorillonite and slickensides developed on fracture surfaces.
- 18.7 - 31.7 BIOTITE HORNFELS  
Mainly a grey biotite rock but has mottled flaggy green appearance in part probably due to pyroxene.  
This unit does not appear the same as that which overlies B lens in this hole between 0 - 9m.
- 31.7 - 42.6 B LENS  
31.7 - 35.4 marble  
Very weakly mineralised grey fine grained marble.  
35.4 - 42.0 biotite pyroxene hornfels  
Barren grey green hornfels. Weakly bedded in part.  
42.0 - 42.6 bedded pyroxene biotite hornfels  
Strongly bedded biotite pyroxene hornfels with some pyrrhotite along bedding planes.
- 42.6 - 60.9 BIOTITE HORNFELS  
Barren grey massive biotite hornfels.
- 60.9 - 65.5 PYROXENE GARNET HORNFELS  
Weakly mineralised pyroxene and grossular hornfels containing some white carbonate fragments.  
Core is badly broken 63.5 - 64.0 but does not appear due to faulting.
- 65.5 - 76.0 BIOTITE PYROXENE HORNFELS  
Barren thinly bedded green and brown hornfels. Bedding strongly developed.
- 76.0m E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H., NO. D 080/11

PLANNING

Proposer: M. Danielson

Depth: 40m

Location: K 10 -150m R.L.

Purpose of hole: C lens oreblocking

Co-ordinates: 220 080 E 563 975

Inclination: -50° Grid

Bearing 360 Target: E

Approved by: M.C.R.

Magnetic:  
Target Depth:

Date: 1/1/77

SURVEY

Survey Co-ords: E

Survey bearing: 4° 00' Grid

Surveyed in by:

Actual Co-ords: 220 080.1 E 563977.1

R.L. of Collar: F 149.1

Picked up by: R.J.H.

Magnetic:  
Date:

Inclination of Hole: -48° 30'  
Date: 3/2/77

SUMMARY

Logged by: M. danielson

Results: B lens 13 - 15m, 2m @ 0.60% WO<sub>3</sub>  
18 - 20m, 2m @ 0.56% WO<sub>3</sub>

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 13/1/77

Date terminated: 17/1/77

Casing:	Size:	BX
	Depth:	1.5m
Core:	Size:	46TT
	Depth:	48.2

Wedge Runoff:

Wedge placed:  
Proposed by:  
Reason:

Depth:  
Approved by:

Extension: Nil

Reason for termination: Hole into unmineralised footwall hornfels

Condition of hole on completion:

Final depth: 48.2m

Casing: 1.5m  
Cemented: No

Bore hole survey: Surveyed to 48.0m

Water: No

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 080/11

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.5	1.5	1.35	90
3.2	1.7	1.50	88
6.2	3.0	3.0	100
9.5	3.3	3.3	100
12.5	3.0	3.0	100
15.5	3.0	3.0	100
18.5	3.0	3.0	100
21.5	3.0	3.0	100
24.5	3.0	3.0	100
27.5	3.0	3.0	100
30.5	3.0	3.0	100
33.5	3.0	3.0	100
36.5	3.0	3.0	100
39.5	3.0	3.0	100
42.5	3.0	3.0	100
45.2	2.7	2.7	100
48.2	3.0	3.0	100
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 080/11

Survey method: Multishot Camera

Final depth : 48.2

Casing depth : 1.5m

Depth surveyed to: 48.2m

Date surveyed: 17/1/177

Surveyed by : A. Taylor

Checked by : M.J.D.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
3		356	40	50	3.0	1.93	0.13
18		355	40	50	13.79	11.53	1.01
33		350	40	50	25.28	21.11	2.03
48		350	40	50	36.77	30.69	3.21

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No.D 080/11

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 -24.5	bh/ B lens	6		clay	14m: 45°	99	75	<u>Possible Fault</u> 21.2 - 21.5
24.5 - 27.5	bfb	5		clay		100	60	<u>broken ground</u> 26.3 - 27.5 j/m +20
27.5 -48.2	bfb bph bh	8		clay minor carbonate	34m: 50°	100	57	<u>Rubble</u> 44.8 - 45.2 may be fault

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation)  $\pm = \frac{\text{length core } >10 \text{ cms}}{\text{length drilled}} \%$
- Core size. 34.5mm dia.

GEOPEKO LIMITED - DOLPHIN

ASSAY DATA

D.D.H. No. D 080/11

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO <sub>3</sub>	Mo	
D 5376	13	14	1.0	1.0	0.46	0.02	
7	14	15	"	"	0.75	0.04	
8	15	16	"	"	<0.01	<0.01	
9	16	17	"	"	<0.01	<0.01	
80	17	18	"	"	0.06	0.01	
1	18	19	"	"	0.47	0.01	
2	19	20	"	"	0.66	0.04	
D 5383	20	21	"	"	0.18	0.01	

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 3 080/11

LAB. K.I.S.			LAB. K.I.S.			LAB. AMDEL.			LAB. ACSL.		
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo
D5381	0.47	0.01	D5562	0.47		D5563	0.59		D5564	0.51	

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 080/11

0 - 9.5

BIOTITE HORNFELS

Barren grey brown massive biotite hornfels.  
Very minor pyroxene developed and this unit is gradational  
into the top part of B lens.

9.5 - 21.2

B LENS

9.5 - 13.0 Biotite Pyroxene hornfels

Barren grey green biotite pyroxene hornfels with  
minor pyrite and pyrrotite developed in the green  
pyroxene.

13.0 - 16.3 Garnet Pyroxene hornfels

Pyroxene grossular garnet skarn. Very weak  
mineralisation. 13.7 - 14.7m.

16.3 - 21.2 Marble

Mostly a grey marble with minor green pyroxene  
and brown grossular garnet developed.

Very weak mineralisation between 17.5 - 21.2m.

21.2 - 21.5

FAULT

Very strongly sheared biotite hornfels. Some  
montmorillonite developed. Core also exhibits a  
fragmental texture.

21.5 - 31.0

BANDED FOOTWALL BEDS

Mostly a barren interbedded biotite pyroxene  
hornfels with lesser grossular garnet bands and minor  
marble.

Throughout this unit rounded feldspar and quartz  
grains are developed, occasionally preferentially along  
particular beds and gives overall appearance of a  
granitised sediment. This feature is most strongly  
developed between 21.5 - 31.0 but continues to 38m.  
Bedding 29m 75° L.A.O.C.

31.0 - 36.0

BIOTITE PYROXENE HORNFELS

Barren interbedded grey biotite and green  
pyroxene hornfels.

Bedding 35m 40° L.A.O.C.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. D 080/10

36.0 - 48.2

BIOTITE HORNFELS

A flecked, grey, brown, barren, mostly massive, biotite hornfels.

In places it vaguely resembles Lower metavolcanics and occasionally a weak pyroxene banding is developed.

44.8 - 45.2m is rubble and maybe a fault zone.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D080/11

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			Hole No.
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	
5377	0.75		6611	0.78		6612	0.98		6613	0.93		D 080/11

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 080/10

PLANNING

Proposer: M. Danielson Depth: 60m

Location: K 10. -150m R.L.

Purpose of hole: Oreblock C lens

Co-ordinates: 220 080 E 563975 N  
Inclination: Vertical Magnetic:  
Bearing: Grid Target Depth:  
Target: E N  
Approved by: M.C.R. Date: 1/1/77

SURVEY

Survey Co-ords: E N  
Survey bearing: Grid Magnetic:  
Surveyed in by: Date:  
Actual Co-ords: 220 080.0 E 563976.4 N  
R.L. of Collar: F-149.2 Inclination of Hole: Vertical  
Picked up by: A.J.H. Date: 3/2/77

SUMMARY

Logged by: M. Danielson  
Results: *Clear 26-44m 18m a) 1.37% wDs*

DRILLING

Driller/Contractor: A.D.D.  
Date commenced: 6/1/77 Date terminated: 12/1/77

Casing: Size: Nil			
Depth:			
Core: Size: 46 IV			
Depth: 60.6			

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

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

Condition of hole on completion: Final depth: 60.6m

Casing: Nil  
Cemented: No  
Bore hole survey: Surveyed to 60m  
Water: Nil

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. D 080/10

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.4	3.4	3.4	100
6.4	3.0	2.97	99
9.5	3.1	2.93	95
12.5	3.0	2.89	96
15.5	3.0	2.84	95
18.6	3.1	3.09	100
21.6	3.0	2.89	96
24.6	3.0	3.02	101
27.6	3.0	2.94	98
30.6	3.0	2.98	99
33.6	3.0	2.99	100
36.6	3.0	2.96	99
39.6	3.0	2.93	98
42.6	3.0	3.00	100
45.6	3.0	2.99	100
48.6	3.0	3.03	101
51.6	3.0	2.92	97
54.6	3.0	2.92	97
57.6	3.0	2.99	100
60.6	3.0	2.99	100
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. D 080.10

Survey method: Multishot camera

Final depth : 60.6m

Casing depth : Nil

Depth surveyed to: 60.0

Date surveyed: 12.1.77

Surveyed by : A. Taylor

Checked by : M.J.D.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
6		045°		- 89.5	6.0	0.04	0.04
21		328°		- 89.5	21.0	0.138	0.063
36		238°		- 89.5	36.0	0.123 <sup>N</sup>	0.129 <sup>W</sup>
51		317°		- 89.0	51.0	0.170	0.215
60		325°		- 88.0	60.0	0.349	0.367

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 080/10

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 - 14.5	bh	5		clay		97	74	
14.5 - 21.6	B lens	6		clay	16m: 80° 20m: 65° 21m: 65°	98	57	broken ground 15.0 - 15.5 16.1 - 16.5 18.8 - 19.1
21.6 - 27.6	B lens	8		clay	26m: 60°	99	75	
27.6 - 45.6	Banded gn	3		clay carbonate	34m: 50° 43m: 50°	99	84	broken ground 42.4 - 42.6
45.6 - 60.6	bh/ph b.f.b.	5		clay	47m: 43° 55m: 52° 60m: 65°	99	57	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation)  $\pm = \frac{\text{length core } >10 \text{ cms}}{\text{length drilled}} \%$
- Core size. 34.5mm dia.

ASSAY DATA

D.D.H. No. DOLPHIN 080/10

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO <sub>3</sub>	Mo	
D 5355	24	25	1.0	1.0	<0.01	<0.01	
6	25	26	"	"	<0.01	<0.01	
7	26	27	1.0	1.0	0.83	0.03	
8	27	28	"	"	1.66	0.05	
9	28	29	"	"	1.84	0.07	
60	29	30	"	"	0.92	0.03	
1	30	31	"	"	0.95	0.04	
2	31	32	"	"	1.35	0.04	
3	32	33	"	"	0.63	0.02	
4	33	34	"	"	1.41	0.05	C lens 26 - 44m
5	34	35	"	"	2.75	0.09	
6	35	36	"	"	1.40	0.05	18m @ 1.37% WO <sub>3</sub>
7	36	37	"	"	0.94	0.03	
8	37	38	"	"	1.50	0.05	
9	38	39	"	"	1.40	0.04	
70	39	40	"	"	1.52	0.04	
1	40	41	"	"	1.91	0.07	
2	41	42	"	"	1.42	0.03	
3	42	43	"	"	1.35	0.05	
4	43	44	"	"	0.96	0.04	
D 5375	44	45	"	"	0.14	0.01	

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/10

LAB. K.I.S.			LAB. K.I.S			LAB. AMDEL			LAB. A.C.S.L.		
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo
D5360	0.92	0.03	D5553	0.86		D5554	1.03		D5555	0.87	
D5363	0.63	0.02	D5556	0.63		D5557	0.66		D5558	0.67	
D5373	1.35	0.05	D5559	1.39		D5560	1.49		D5561	1.36	

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No D 080/10

0.0 - 11.0

HANGINGWALL BIOTITE HORNFELS

Barren grey black massive biotite hornfels.

11.0 - 26.5

B LENS

Mostly a barren thinly interbedded sequence of dominant biotite hornfels, with less pyroxene and minor grossular skarn developed.

Occasional specks of scheelite 21.9 - 22.1m.

Pyroxene beds are generally moderately rich in pyrrhotite which is typical of B lens.

Below 23.5 the previously regular bedding becomes more disturbed and some pyroxene rich globate structures develop.

Fault (?) 26.5m

No coreloss or bad ground but following unit appears to be Lower C lens.

26.5 - 44.3

LOWER C LENS

Moderately mineralised banded andradite skarn with barren green pyroxene interbeds. Medium to fine grained.

Core is heavily broken between 42.4 - 42.6 which may be a fault.

27.4 - 28.0 mineralised granitised sediment.

44.3 - 47.7

BIOTITE PYROXENE HORNFELS

Barren thinly interbedded green pyroxene and black biotite hornfels.

Broken ground 45.0 - 45.6m.

47.7 - 48.7

LOWER METAVOLCANICS

Barren grey brown massive rock with abundant flecks brown biotite.

48.7 - 54.6

BIOTITE PYROXENE HORNFELS

Barren grey green interbedded biotite and pyroxene hornfels.

54.6 - 60.6

UNMINERALISED BANDED FOOTWALL BEDS

Similar to the biotite pyroxene unit above but approx. 50% of rock is now barren white carbonate and pale brown grossular garnet.

60.6m E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/10

LAB.		K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			HOLE No.
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo		
5365	2.75		6599	2.91		6600	2.79		6601	2.62		D 080/10	
5373	1.35		6563	0.98		6564	1.25		6565	1.36		"	

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. Dolphin 080/9

PLANNING

Proposer: M.J. Danielson

Depth: 30m

Location: C 1556 Stope: -150 M level

Purpose of hole: Oreblocking of C lens

Co-ordinates: 220 080 E 564 015

Inclination: -75°

Bearing 180 Grid

Target: E

Approved by: M.C. Rogers

N

Magnetic:

Target Depth:

N

Date: 1/11/76

SURVEY

Survey Co-ords: E

Survey bearing: 173° 40' Grid

Surveyed in by:

Actual Co-ords: 220 080.12 E 564 012.76

R.L. of Collar: F-149.08

Picked up by: R.J. H.

N

Magnetic:

Date:

N

Inclination of Hole: -76° 00'

Date: 24/11/76

SUMMARY

Logged by: M. Danielson

Results: pgh 1-4m, 3m @ 0.54% WO<sub>3</sub>  
gh 6-12m, 6m @ 1.96% WO<sub>3</sub>

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 23/11/76

Date terminated: 25/11/76

Casing: Size: Nil

Depth:

Core: Size: 34.5m

Depth: 30.6

Wedge Runoff:

Wedge placed: NIL

Depth:

Proposed by:

Approved by:

Reason:

Extension: Nil

Reason for termination: Hole passed below footwall mineralisation

Condition of hole on completion:

Final depth: 30.6m

Casing: Nil

Cemented: No

Bore hole survey: Yes

Water: Nil

Comments on drilling conditions: -

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. Dolphin 080/9

Survey method: Multishot camera  
Final depth : 30.6m  
Casing depth : 1.0m

Depth surveyed to: 30m  
Date surveyed: 15/11/76  
Surveyed by : G.L.B.  
Checked by : G.L.B.

Depth	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	E
6	174°	164°	14° 15'	-75° 45'	5.80	1.42	0.41
12	176°	166°	14°	-76°	11.62	2.83	0.76
15	176°	166°	14°	-76°	14.53	3.54	0.94
21	177°	167°	14° 45'	-75° 15'	20.33	5.03	1.28
27	177°	167°	14° 45'	-75° 15'	26.13	6.52	1.62
30	177°	167°	14° 45'	-75° 15'	29.03	7.26	1.79

REMARKS:

GEOPEKO LIMITED - Dolphin

ASSAY DATA

D.D.H. No. D080/9

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO <sub>3</sub>	Mo	
D5251	0	1	1.0	1.0	0.10	0.01	
2	1	2	1.0	1.0	0.86	0.03	pgh 1-4m 3m @ 0.54% WO <sub>3</sub>
3	2	3	1.0	0.8	0.41	0.01	
4	3	4	1.0	1.0	0.35	0.01	
5	4	5	1.0	1.0	<0.01	<0.01	
6	5	6	1.0	1.0	0.01	<0.01	
7	6	7	1.0	0.9	0.78	0.04	gh 6-12m 6m @ 1.96% WO <sub>3</sub>
8	7	8	1.0	0.8	2.15	0.07	
9	8	9	1.0	1.0	0.40	0.09	
10	9	10	1.0	1.0	5.16	1.14	
1	10	11	1.0	1.0	5.59	0.34	
2	11	12	1.0	1.0	0.41	0.01	
3	12	13	1.0	1.0	<0.01	<0.01	
D5264	13	14	1.0	1.0	<0.01	<0.01	

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. Dolphin 080/9

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 - 12.6	pgh/gh	4		clay		94	77	
12.6 - 18.0	bph	5		clay	13m: 60°	100	67	
18.0 - 21.6	bph	20		clay		92	10	Possible Fault(?) 19.7 - 20.7
21.6 - 30.6	bph	7		clay	27m: 50°	100	73	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation)  $\pm = \frac{\text{length core} > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size.  
34.5mm dia.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. Dolphin 080/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0-2.7	2.7	2.4	89
3.5	0.8	0.8	100
5.0	1.5	1.5	100
6.6	1.6	1.45	91
9.6	3.0	2.75	92
12.6	3.0	3.00	100
15.6	3.0	3.0	100
18.3	2.7	2.5	93
21.6	3.3	3.2	97
24.6	3.0	3.0	100
27.6	3.0	3.0	100
30.6	3.0	3.0	100
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 080/9

LAB.		K.I.S.		LAB.			K.I.S.			LAB.			AMDEL			LAB.			ACSL		
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	
D5259	0.40	0.09	D5473	0.46	0.09	D5474	0.625		D5475	0.53											

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. DOLPHIN 080/9

0 - 6.5m

PYROXENE GARNET HORNFELS

Pale green ph and pink brown grossular garnet matrix containing white carbonate pods. Weak to moderate mineralisation throughout.

6.5 - 12.2

GARNET HORNFELS

Massive medium to coarse grained garnet hornfels. Moderate to high grade finely disseminated scheelite. Coarse scheelite 10.1 - 10.2m, free molybdenite at 9.5m.

Between 7-10m core is whitish green in colour with minor pyrite throughout.

12.2 - 30.6

BIOTITE PYROXENE HORNFELS

Barren grey green bedded footwall hornfels.

Core is badly broken between 18-21.5m and is a clay breccia zone between 19.7 - 20.7 which maybe a fault.

Core recovery between 15.6 - 21.6m = 95%

Below 27.6m core is very siliceous and in places resembles a 'granitised sediment'.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. D 080/8

PLANNING

Proposer: M.J. Danielson

Depth: 20m

Location: C 1556 stope; -150 M level

Purpose of hole: Locate B lens

Co-ordinates: 220 080                      E 564 015

Inclination: +55°

Bearing 180

Grid

Target:

E

Approved by: M.C. Rogers

N

Magnetic:

Target Depth:

N

Date: 1/11/76

SURVEY

Survey Co-ords:                      E

Survey bearing: 192° 10' Grid

Surveyed in by:

Actual Co-ords: 220 079.93 E 564 012.40

R.L. of Collar: B - 144.57

Picked up by: R.J.H.

N

Magnetic:

Date:

N

Inclination of Hole: 60° 10'

Date: 23/11/76

SUMMARY

Logged by: M. Danielson

Results: No significant B lens mineralisation

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 18.11.76

Date terminated: 22.11.76

Casing: Size: Nil

Depth:

Core: Size: 34.5mms

Depth: 20.4

Wedge Runoff:

Wedge placed: Nil

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Hole passed into hanging wall of B lens

Condition of hole on completion:

Final depth: 20.4m

Casing: Nil

Cemented: No

Bore hole survey: Surveyed to 18m

Water: Nil

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. DOLPHIN 080/8

Survey method: Multishot camera

Final depth : 20.4m

Casing depth : - Nil

Depth surveyed to: 18m

Date surveyed: 22.11.76

Surveyed by : G.L.B

Checked by : G.L.B

Depth	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
18m	180°		31°	+59°			

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. Dolphin 080/8

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 -2.0m	bh/ph	10		clay		100	20	Core broken due to collaring
2.0 / 20.4	bh/ph bh	5		clay		100	85	

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designation)  $\pm = \frac{\text{length core} > 10 \text{ cms}}{\text{length drilled}} \%$
- Core size. 34.5mms dia.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. Dolphin 080/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.0	3.0	3.0	100
5.2	2.2	2.2	100
6.2	1.0	1.0	100
9.3	3.1	3.2	103
12.3	3.0	2.9	97
16.7	4.4	4.7	107
19.7	3.0	2.9	97
20.4	0.7	0.8	114
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. DOLPHIN 080/8

0 - 4.0

B LENS (?)

Mainly a barren grey black biotite hornfels with approx. 20% green pyroxene. May be uppermost unit in B lens sequence.

4.0 - 20.4m

BIOTITE HORNFELS

Barren grey black bh.  
Between 15-19m core contains abundant flecks of brown mica and vaguely resembles lower metavolcanics.

20.4m E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 080/7PLANNINGProposer: **M.J. Danielson** Depth: 120mLocation: 220 080 E drill cuddy  
main decline

Purpose of hole: Oreblocking south of the Central Fault

Co-ordinates: 220 080 E 564 075 N

Inclination:  $-60^{\circ}$ 

Target depth:

Bearing:  $180^{\circ}$   $^{\circ}$ Grid $^{\circ}$ Magnetic

Target: E N

Approved by: **M.C. Rogers.**

Date: 1/9/74

SURVEY

Survey Co-ords: E N

Survey bearing:  $^{\circ}$ Grid $^{\circ}$ Magnetic

Surveyed in by:

Date:

Actual Co-ords: 220 080.2 E 564 073.4 N

R.L. of collar: -73.6

Inclination of hole:

Picked up by: **M.G.M.**

Date: 25/9/74

SUMMARYLogged by: **M.J. Danielson**Results: C lens: 78 - 86m, 8m @ 1.90%  $WO_3$ 89 - 103m, 14m @ 0.80%  $WO_3$ DRILLINGDriller / Contractor: **A.D.D.**

Date commenced: 13/9/74

Date terminated: 24/9/74

Casing: Size : **BX**

Depth: 1.52

Core: Size : **NQ**Depth: 0.90 **BQ** 123.80

Wedge Runoff:

Wedge placed: **NIL**

Depth:

Proposed by:

Approved by:

Reason:

Extension: **NIL**

Final depth: 123.80m

Reason for termination: Hole entered Lower meta~~volcanics~~.

Condition of hole on completion:

Casing : 1.52m **BX** remains.Cemented: **Yes**

Bore hole survey: Surveyed to 121.92m.

Water: **Normal water pressure** throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - Dolphin MineSUMMARY BORE HOLE SURVEY DATAD.D.H. No. D 080/7

Survey method : Multishot camera  
 Final depth : 123.80m.  
 Casing depth : 1.52m.

Depth surveyed to : 121.92m  
 Date surveyed : 24/9/74  
 Surveyed by : G.L. Buckland.  
 Checked by : G.L. Buckland.

DEPTH (m)	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	E
15.24	174°15'	165°15'	28°30'	-61°30'	13.35	7.07	1.98
30.48	177°	168°	27°	-63°	26.87	13.93	3.54
45.72	177°30'	168°30'	26°45'	-63°15'	40.47	20.80	4.92
60.96	178°	169°	26°	-64°	54.14	27.40	6.20
76.20	179°	170°	25°45'	-64°15'	67.86	33.95	7.32
91.44	179°30'	170°30'	25°30'	-64°30'	81.60	40.45	8.39
106.68	182°	173°	26°	-64°	95.32	47.00	9.38
121.92	183°	174°	26°	-64°	109.02	53.64	10.13

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 080/7

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Dipping	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 31.50	B lens hangingwall bh	11				97	60	0 - 3.90 core is badly broken, weakly leached. At 6.48 core is brecciated and recemented with carbonate.
31.50 - 54.40	B lens host rocks	8				100	78	47.97 - 48.86: a) core is broken into sections 8cm in length. b) chlorite on joint surfaces is weathered.
54.40 - 63.30	Hanging - wall bh	10				99	73	bad ground: 56.91 - 57.53 59.32 - 59.88
63.30 - 79.30	pgh	7				101	77	core weakly leached 69.80 - 70.25 70.20 core

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). =  $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered drilled}} \%$
- Core size. 0 - 0.90 NQ  
0.90 - 123.80 BQ

GEOPEK LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. D 080/7

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)
63.30 - 79.30 (cont.)(pg.1)								
79.30 - 88.10	gh/ marble marker.	5		minor pyrite and carbonate.		97	92	appears brecciated and recemented with carbonate.
88.10 - 101.0	banded gh	10		pyrite @ 94.92 minor chlorite @ 97.30 98.60	92m:50° 98m:45°	100	7	
101.0 - 120.0	Banded bph	14		minor pyrite; minor carbonate @ 117.12	109m:65° 114m:25° 115m:40° 117m:45° LAOC	97	50	
120.0 - 123.80	Lower volcanics.	8		chlorite general e.g. @ 120.15 120.60		97	73	

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLANDCORE RECOVERYD.D.H. No. D 080/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.12	3.12	2.00	64
4.29	1.17	1.43	122
5.84	1.55	1.73	112
8.00	2.16	2.09	97
11.05	3.05	2.95	97
14.10	3.05	3.10	102
17.15	3.05	3.03	99
19.00	1.85	2.21	119
20.83	1.83	1.90	104
22.05	1.22	1.13	93
22.61	0.56	0.48	86
24.13	1.52	1.35	89
25.96	1.83	1.73	95
26.87	0.91	0.73	80
29.18	0.31	0.27	87
27.79	0.61	0.63	103
28.65	0.86	1.05	122
31.09	2.44	2.46	101
32.37	1.28	1.15	90
35.40	3.03	3.06	101
38.05	2.65	2.70	102
41.15	3.10	3.15	102
44.20	3.05	2.86	94
47.24	3.04	2.96	97
50.29	3.05	2.95	97
51.82	1.53	1.78	116
53.95	2.13	2.11	99
54.64	0.69	1.07	155
56.04	1.40	1.27	91
57.45	1.41	1.41	100
59.82	2.37	2.37	100
62.87	3.05	3.08	101
65.91	3.04	3.00	99
68.96	3.05	3.00	98
72.01	3.05	3.04	100
73.18	1.17	1.16	100
76.23	3.05	3.05	100
79.28	3.05	3.10	102
82.33	3.05	3.08	101
85.07	2.74	2.78	101
87.25	2.18	2.30	106
89.56	2.31	2.40	104
92.58	3.02	3.00	99
94.92	2.34	2.34	100
97.48	2.56	2.50	98
99.44	1.96	2.04	104

GEOPEKO LIMITED - KING ISLANDCORE RECOVERYD, D, H. No. D 080/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 101.19	1.75	1.77	101
102.11	0.92	0.87	95
103.83	1.72	1.87	109
104.60	0.77	0.82	106
105.94	1.34	1.44	107
107.14	1.20	1.20	100
108.43	1.29	0.23	19
111.56	3.13	3.12	100
114.60	3.04	3.01	99
117.68	3.08	3.15	102
120.75	3.07	3.15	103
123.80	3.05	2.95	97

GEOPEKO LIMITED - Dolphin MineASSAY DATAD.D.H. No. D 080/7

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length recovered	WO <sub>3</sub>	Mo				
D2547	19	20	1.0	1.0	1.06	0.06				
8	20	21	"	"	0.50	0.03				
D2776	65	66	1.0	1.0	0.02	0.01				
7	66	67	"	"	0.04	0.01				
8	67	68	"	"	0.08	0.01				
9	68	69	"	"	0.03	0.02				
80	69	70	"	"	0.03	0.02				
1	70	71	"	1.10	0.04	0.02				
2	71	72	"	1.0	0.04	0.02				
3	72	73	"	"	0.10	0.01				
4	73	74	"	"	0.16	0.02				
5	74	75	"	"	0.05	0.01				
6	75	76	"	"	0.09	0.01				
7	76	77	"	"	0.17	0.02				
8	77	78	"	"	0.16	0.02				
9	78	79	"	"	2.47	0.13				
90	79	80	"	"	1.41	0.07				
1	80	81	"	"	3.50	0.25				C lens
2	81	82	"	"	2.80	0.14				78 - 86m,
3	82	83	"	"	2.36	0.14				8m @ 1.90
4	83	84	"	"	1.07	0.08				% WO <sub>3</sub>
5	84	85	"	"	1.15	0.08				
2796	85	86	"	"	0.45	0.04				
7	86	87	"	"	0.02	0.01				
8	87	88	"	"	0.12	0.02				
9	88	89	"	"	0.13	0.05				
800	89	90	"	"	2.17	0.11				
1	90	91	"	"	1.07	0.08				
2	91	92	"	"	0.34	0.04				
3	92	93	"	"	1.24	0.06				C lens
4	93	94	"	"	0.46	0.04				89 - 103m,
5	94	95	"	"	1.08	0.07				14m
6	95	96	"	"	1.33	0.06				@ 0.80
7	96	97	"	"	0.88	0.04				% WO <sub>3</sub>
8	97	98	"	"	0.38	0.03				
9	98	99	"	1.13	0.33	0.03				
10	99	100	"	1.0	0.87	0.04				
1	100	101	"	"	0.58	0.04				
2	101	102	"	"	0.10	0.01				
3	102	103	"	"	0.39	0.03				

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - Dolphin MineASSAY DATAD.D.H. No. D 080/7

SAMPLE No.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	W <sub>3</sub>	Mo					
D2814	103	104	1.0	1.0	0.04	0.02					
5	104	105	"	"	0.02	0.03					
6	105	106	"	"	0.05	0.02					

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/7

LAB. K.I.S.			LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.		
Original Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo	Check Sample No.	WO <sub>3</sub>	Mo
D 2784	0.16	0.02	D 3422	0.14	0.01	D 3423	0.14	0.006	D 3424	0.18	0.013
2792	2.80	0.14	3425	2.67	0.08	3426	2.45	0.082	3427	2.92	0.074
2794	1.07	0.08	3428	1.01	0.02	3429	0.92	0.037	3430	1.14	0.042
2799	0.13	0.05	3431	0.89	0.02	3432	0.86	0.034	3433	0.93	0.031
2806	1.33	0.06	3434	1.25	0.02	3435	1.05	0.031	3436	1.25	0.035
D 2813	0.39	0.03	D 3437	0.50	0.01	D 3438	0.51	0.016	D 3439	0.66	0.017

GEOPEKO LIMITED - Dolphin MineGEOLOGICAL LOGD.D.H. No. D 080/7

0 - 31.50

B Lens Hangingwall Biotite Hornfels

A barren purplish grey brown hornfels. Core is badly broken and weakly leached and weathered from 0 - 3.90. Core loss in this interval is 29%. Maybe associated with fault contact visible in the 220 080E drill caddy. Slickensides on fracture surface at 2.70 metres. Weakly fragmental texture between 9 - 10 metres.

19.00 - 21.10 is a weakly grossular garnet pyroxene skarn with very minor scheelite mineralisation almost all of which is blue.

21.10 - 31.50 mostly grey weakly spotted (24 - 28m).

Bedding is more apparent in this section.

28m 40° LAOC

30m 50° "

31.50 - 54.40

B Lens Host Rocks

A variety of rock types subdivided as follows:-

31.50 - 35.40 biotite pyroxene hornfels. A barren brown green rock. Bedding 33m is 50° LAOC.

35.40 - 37.70 a weak pyroxene grossular garnet skarn with the occasional speck of scheelite. Not split for assay.

37.70 - 44.20 barren grey recrystallised marble.

44.20 - 48.05 barren brown mostly biotite hornfels some of which has a weakly fragmental texture. Minor chlorite on joint surfaces at 44.4 metres.

48.05 - 50.29 barren grey marble. Both upper and lower contacts are broken ground and may represent leaching along contact.

50.29 - 54.40 a variety of grey brown biotite hornfels and green pyroxene hornfels. Bedding: 52m 40° LAOC. Aplite 54.00 - 54.35

54.40 - 63.30

Hangingwall Biotite Hornfels

Barren pale grey biotite hornfels.

63.30 - 79.30

Pyroxene Garnet Hornfels

A mottled green pyroxene and pale pink brown grossular garnet rock with calcite ovoids up to 5cm diameter rimmed with honey coloured grossular garnet. The unit is weakly mineralised throughout but would be sub-oregrade.

GEOPEKO LIMITED - Dolphin MineGEOLOGICAL LOGD.D.H. No. D 080/7

79.30 - 85.40

Garnet Hornfels

Moderate to high grade fine disseminated scheelite in a medium grained brown andradite garnet skarn.

85.40 - 88.10

Marble Marker (?)

A mixture of barren grey marbles, minor pyroxene rich grossular garnet skarn and purplish brown biotite hornfels. Minor fine disseminated scheelite in the skarn.

88.10 - 101.0

Banded Garnet Hornfels

This unit is mostly a medium to fine grained mineralised andradite skarn with intercalated barren beds of bh, marble and green pyroxene. The majority of the barren beds are less than 4cm thick. One exception is a 0.32m barren ch bed at 91.25.

Bedding: 92m 50° LAOC  
98m 45° "

101.0 - 120.0

Banded Biotite Pyroxene Hornfels

A banded grey whitish green rock. No mineralisation. Significant lost core 107.14 - 108.43 81% lost.

Bedding: 109m 65° LAOC  
114m 25° "  
115m 40° "  
117m 45° "

120.0 - 123.0

Lower Volcanics

This unit is not 'typical' lower volcanics but is similar in appearance. The rock has a volcanic texture, no mineralisation and is brown grey in colour.

123.80 E.O.H.

*good description*

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: 080/6 DOLPHIN MINEPLANNING

Proposer: M. J. Danielson                      Depth: 90m  
 Location: 220 080 E Main decline.

Purpose of hole: Oreblocking 220 050E at 55m level.

Co-ordinates: 220 080 E 564 075 N  
 Inclination: + 17°                      Target depth: 60m  
 Bearing: 333°                      °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: 220077.7 E 564079.2 N  
 R.L. of collar: -70.9 BRG 335°07'                      Inclination of hole: + 17°32'  
 Picked up by: M.G. Marchant                      Date: 22/8/74

SUMMARY

Logged by: M. J. Danielson  
 Results: Main C lens horizon at - 55m RL was not located.

DRILLING

~~Driller~~ / Contractor: A. D. D.  
 Date commenced: 8.8.74                      Date terminated: 23/8/74

Casing:	Size :	NIL				
	Depth:					
Core:	Size :	A 17				
	Depth:	82.90				

Wedge Runoff:

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

Extension: NIL                      Final depth: 82.90m

Reason for termination: Hole passed beyond zone of interest.

Condition of hole on completion:

Casing : NIL  
 Cemented: NO

Bore hole survey: Surveyed to 82.90m.

Water: NIL

Comments on drilling conditions: Very slow - taking 21 shifts to complete.

GEOPEKO LIMITED - DOLPHIN MINESUMMARY BORE HOLE SURVEY DATAD.D.H. NO. 080/6

Survey method : Multishot camera

Depth surveyed to : 82.91m

Final depth : 82.91m

Date surveyed : 23.8.74

Casing depth : Nil

Surveyed by : G.B.

Checked by : G.B.

DEPTH (m)	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
15.24	333°	324°	73°15'	+ 16°45'	(up hole) 4.39	11.94	8.39
30.48	333°45'	324°45'	73°30'	+ 16°30'	8.72	23.74	17.10
45.72	335°	326	74°	+ 16°	12.96	35.79	25.41
60.96	334°30'	325°30'	74°30'	+ 15°30'	17.08	47.79	33.85
76.20	335°	326°	74°	+ 16°	21,23	59.89	42.13
82.91	335°	326°	74°	+ 16°	23.07	65.23	45.74

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 080/6

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 22.91	bh	20		chlorite carbonate		87	25	bad ground: 7.0 - 8.5 19.05 -19.51
22.91 56.39	bh	13		carbonate general except 49.38 - 50.60 : chlorite		92	48	bad ground: 45.72-47.10
56.39 67.97	bh	17		chlorite at 57.58 and 66.50 - 67.97. minor pyrite.		98	40	bad ground: 56.65-57.35 63.0-63.65 67.30-67.85
67.97 82.90	banded bicitic pyroxene grossular hornfels.	18		minor pyrite, chlorite @ 72.91	69m:60° 74m:55° LAOC	85	29	bad ground: 68.60-68.88 78.94-82.91

FURTHER DATA & REMARKS (Compression Tests)

1. Core size: 0 - 82.90 A 17
2. For detailed % core recovery within each depth interval consult core recovery page.

CORE RECOVERY - DDH D 080/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 0.41	0.41	0.16	39
0.76	0.35	0.17	49
2.08	1.32	0.12	9
2.59	0.51	0.71	139
4.42	1.83	1.80	98
6.10	1.68	1.81	108
7.32	1.22	1.41	116
9.14	1.82	1.27	70
10.11	0.97	0.90	93
12.80	2.69	3.01	112
14.33	1.53	1.42	93
15.09	0.76	0.68	89
15.85	0.76	0.64	84
18.29	2.44	2.56	105
19.51	1.22	0.80	66
21.34	1.83	1.21	66
22.30	0.96	0.85	88
22.91	0.61	0.43	70
24.99	2.08	2.45	118
26.82	1.83	1.93	105
28.35	1.53	1.80	118
29.57	1.22	1.25	102
30.48	0.91	0.94	103
31.39	0.91	0.75	82
32.31	0.92	0.56	61
33.22	1.91	1.10	58
34.14	0.92	1.00	109
36.27	2.13	2.26	106
38.71	2.44	2.54	104
42.82	4.11	3.45	84
45.72	2.90	0.90	31
46.33	0.61	0.30	49
46.63	0.30	0.26	87
47.85	1.22	1.37	112
48.46	0.61	0.62	102
52.53	4.07	3.83	94
54.46	1.93	1.17	61
54.96	0.50	0.74	148
56.39	1.43	1.44	101
57.00	0.61	0.71	116
57.30	0.30	0.28	93
57.61	0.31	0.60	193
59.44	1.83	1.93	105
60.35	0.91	0.96	105
61.26	0.91	0.76	84
61.57	0.31	0.30	97
62.48	0.91	0.80	88
63.55	1.07	0.77	72
64.62	1.07	1.07	100
65.53	0.91	0.70	77
67.36	1.83	1.87	102
67.67	0.31	0.24	77
67.97	0.30	0.37	123
68.88	0.91	0.72	79
71.78	2.90	3.00	103
72.24	0.46	0.61	132
74.07	1.83	1.78	97

CORE RECOVERY - DDH D 080/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
75.44	1.37	1.12	82
76.81	1.37	1.05	77
77.72	0.91	0.66	73
78.33	0.61	0.68	111
78.94	0.61	0.48	79
79.70	0.76	0.35	46
81.53	1.83	0.80	44
82.30	0.77	0.85	110
82.90	0.60	0.56	93

GEOPEKO LIMITED -GEOLOGICAL LOGD.D.H. NO. DDH D 080/6

0 - 13.50

## BIOTITE HORNFELS

A pale brown fine grained barren biotite hornfels.  
Moderate fine carbonate veining to 7.40m.

7.40 - 7.50 slickensides on core fracture surfaces.

7.50 - 13.50 mostly a pale brown hornfels with moderate carbonate veining. Slightly green in colour indicating some ph 11 - 12m. No mineralisation.

13.5 - 67.97

## BIOTITE HORNFELS

At 13.5m there is a distinct colour change to a grey fine grained barren hornfels.

Note significant core loss.

18.29 - 19.51 34% lost

19.51 - 21.34 34% "

21.34 - 22.30 12% "

22.30 - 22.91 30% "

Between 16 - 25m the core is spotted with dark grey spots up to 5mm diameter. Similar in appearance to "spotted volcanics".

Between 29.6 - 30.1 core is marked by many small irregular shaped holes up to 1cm in the long dimension but usually much smaller.

Quality of core improves below 30m although there is substantial lost core

42.82 - 45.72 69% lost

45.72 - 46.33 51% "

46.33 - 46.63 13% "

Core is pale green and apparently pyroxene rich

39.75 - 42.82

55.0 - 56.5

Some broken core 50.3 - 50.5 with slickensides on one fracture surface.

Core is heavily broken 62.76 - 65.53 with some substantial core lost.

62.48 - 63.55 28% lost

63.55 - 64.62 Nil % "

64.62 - 65.53 23 % "

Core very badly shattered 67.36 - 67.97 RQD = 0% but no core loss.

67.97 - 82.90

## BANDED BIOTITE PYROXENE GROSSULAR HORNFELS

Thinly banded green (ph) with black (bh) and minor pale pink grossular garnet. Very minor white carbonate. No mineralisation.

Bedding; 69m 60°

GEOPEKO LIMITED -

GEOLOGICAL LOG

D.D.H. NO. DDH D 080/6

Severe core loss

78.94 - 79.70	54%	lost
79.70 - 81.53	56%	"
81.53 - 82.30	Nil	"
82.30 - 82.90	7%	"

This unit is much more biotite rich below 79.70m and the banding is not so predominant.

82.90m

E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO:D 080/5PLANNING

Proposer: M. J. Danielson                      Depth: 80m  
 Location: 220 080E drill cuddy

Purpose of hole: Test upward extension of ore horizon above  
 -75m level.

Co-ordinates: 220 080    E 654 080    N

Inclination: +14                                      Target depth:

Bearing:                      360 °Grid                      °Magnetic

Target:    E                      N

Approved by: M C Rogers                                      Date: 10.6.74

SURVEY

Survey Co-ords:                                      E                      N

Survey bearing:                                      °Grid                      °Magnetic

Surveyed in by:    Date:

Actual Co-ords: 220079.684E 564079.134N

R.L. of collar: 71.814m                                      Inclination of hole: +14

Picked up by: D. Brown                                      Date: 2.8.74

SUMMARY

Logged by: M. J. Danielson

Results: C lens 63 - 68m 5m @ 1.78% WO<sub>3</sub>

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 20.6.74                                      Date terminated: 5.7.74

Casing:    Size : NIL

          Depth:

Core:      Size : A 17

          Depth: 97.60m

Wedge Runoff:

          Wedge placed:                                      Depth:

          Proposed by:                                      Approved by:

          Reason:

Extension: NIL                                      Final depth: 97.66m

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

Condition of hole on completion:

          Casing :    NIL

          Cemented:    NO

Bore hole survey: Surveyed to 91.44m.

Water: Very slight inflow. Estimate 1 gal/5 mins.

Comments on drilling conditions:

          Drilling machine E 500.



GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. D 080/5

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 5.94	bh	16		carbonate		93	39	
5.94-14.94	bh	20		minor pyrite		79	11	poor ground
14.94-30.18	bh	13		carbonate		99	44	
30.18-34.14	bh	+20		minor	16m	97	15	poor ground
34.14-50.29	pgh/bh	8		carbonate	10°	98	60	
50.29-58.83	bh	14		minor pyrite	L.A.O.C.	94	54	poor ground
58.83-62.79	pgh	9		carbonate		118	63	54.1-54.9 bad ground
62.79-73.15	gh/pgh/ bph	17		carbonate		100	14	56.4-56.7 poor ground
73.15-82.14	pgh/footwall hornfels	13		moderate chlorite	75.8m	95	50	62.0-62.18 particularly
82.14-92.00	footwall hornfels/ ch/bh	18		70-73m clay, chlorite	30° at 79.5m			71.0-71.5m
92.00-97.66	q	15		carbonate	80m 45° L.A.O.C.	91	32	poor ground
				pyrite, minor carbonate	90.5-91.6 L.A.O.C.	89	42	

FURTHER DATA & REMARKS (Compression Tests)

1. Core Size: A.17. (32.5mm dia.)

## DOLPHIN MINE

DDH D080/5

## CORE RECOVERY

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.44	2.44	2.13	87
- 4.11	1.67	1.56	93
- 5.03	0.92	0.89	97
- 5.94	0.91	0.95	104
- 7.16	1.22	0.93	76
- 7.62	0.46	0.32	70
- 7.92	0.30	0.30	100
- 8.53	0.61	0.40	66
- 8.84	0.31	0.30	100
- 9.14	0.30	0.18	60
- 9.45	0.31	0.39	126
- 9.91	0.46	0.36	78
- 10.21	0.30	0.27	90
- 10.67	0.46	0.46	100
- 11.35	0.68	0.43	63
- 11.89	0.54	0.26	48
- 12.19	0.30	0.22	73
- 12.65	0.46	0.43	93
- 13.11	0.46	0.54	117
- 14.33	1.22	0.89	73
- 14.94	0.61	0.46	75
- 15.24	0.30	0.35	117
- 16.15	0.91	1.00	110
- 17.07	0.92	0.68	74
- 18.04	0.97	1.15	118
- 19.51	1.47	1.47	100
- 21.03	1.52	1.32	87
- 22.25	1.22	1.05	86
- 22.86	0.61	0.58	95
- 23.29	0.43	0.40	93
- 24.38	1.09	0.50	46
- 24.63	0.25	0.26	100
- 25.30	0.67	0.26	39
- 27.43	2.13	1.68	79
- 28.65	1.22	0.91	75
- 29.32	0.67	0.65	97
- 30.18	0.86	0.93	108
- 31.09	0.91	0.86	95
- 31.39	0.30	0.52	173
- 32.010	0.71	0.52	73
- 32.41	0.31	0.30	100
- 32.61	0.20	0.20	100
- 32.98	0.37	0.37	100
- 33.22	0.24	0.20	83
- 33.53	0.31	0.31	100
- 34.14	0.61	0.57	93
- 34.71	0.57	0.64	112
- 37.80	3.09	2.85	92
- 38.25	0.45	0.55	122
- 40.84	2.59	2.51	97
- 42.67	1.83	1.92	105
- 43.59	0.92	0.86	93
- 44.81	1.22	1.23	100
- 47.24	2.43	2.10	86
- 50.29	3.05	3.20	105

- 50.90	0.61	0.51	84
- 51.51	0.61	0.53	87
- 52.43	0.92	0.94	102
- 52.88	0.45	0.39	87
- 54.10	1.22	1.25	103
- 54.86	0.76	0.76	100
- 56.69	1.83	1.63	89
- 57.60	0.91	0.95	104
- 57.79	0.19	0.19	100
- 58.40	0.61	0.60	100
- 58.83	0.43	0.30	70
- 59.44	0.61	0.64	105
- 60.51	0.74	1.32	180
- 62.18	1.37	1.38	100
- 62.79	0.61	0.60	100
- 62.99	0.20	0.23	115
- 63.90	0.91	0.99	109
- 64.44	0.54	0.37	69
- 64.62	0.18	0.14	78
- 65.35	0.73	0.62	85
- 65.66	0.31	0.26	84
- 66.27	0.61	0.71	116
<del>67.28</del>	1.01	1.04	102
- 68.20	0.92	0.94	102
- 69.67	1.47	1.50	102
- 70.28	0.61	0.61	100
- 70.46	0.18	0.42	233
- 70.71	0.25	0.16	64
- 71.06	0.35	0.20	57
- 71.55	0.49	0.40	82
- 71.86	0.31	0.22	71
- 72.47	0.61	0.70	115
- 72.67	0.20	0.41	205
- 73.15	0.48	0.42	88
- 73.91	0.76	0.82	108
- 74.96	1.05	0.90	86
- 75.77	0.81	0.75	93
- 76.50	0.73	0.61	84
- 77.60	1.10	1.04	95
- 78.51	0.91	1.00	110
- 79.42	0.91	0.80	88
<del>81.99</del>	2.57	2.52	98
- 82.14	0.15	0.08	53
- 83.84	1.70	1.63	96
- 84.86	1.02	0.80	78
- 86.21	1.35	1.40	104
- 86.79	0.58	0.64	110
- 87.30	0.51	0.45	88
- 88.82	1.52	1.32	87
- 91.21	2.39	1.90	79
- 92.43	1.22	1.30	107
- 93.50	1.07	1.00	93
<del>94.00</del>	0.50	0.50	100
- 95.94	1.94	1.85	95
- 96.85	0.91	0.81	89
- 97.66	0.81	0.85	105

GEOPEKO LIMITED - DOLPHIN MINEASSAY DATAD.D.H. NO. D 080/5

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO <sub>3</sub>	Mo	<del>Ag</del>	<del>Wg</del>	<del>Mo</del>		
1765	33	34	1.0	1.0	0.68	0.02					
6	34	35	"	"	0.02	<0.01					
7	35	36	"	"	0.60	0.01					
8	36	37	"	0.74	0.18	<0.01					
9	37	38	"	1.0	<0.01	<0.01					
70	38	39	"	"	0.52	0.01					
1	39	40	"	"	0.20	<0.01					
2	40	41	"	"	<0.01	<0.01					
1773	49	50	"	"	0.20	0.03					
1851	59	60	"	"	0.02	<0.01					
2	60	61	"	"	0.17	<0.01					
3	61	62	"	"	0.31	<0.01					
4	62	63	"	"	0.02	<0.01					
5	63	64	"	"	0.9	0.24					
6	64	65	"	0.74	0.11	0.01					
7	65	66	"	0.79	0.26	0.25					
8	66	67	"	1.0	0.66	0.01					
9	67	68	"	"	0.99	0.01					
60	68	69	"	"	0.02	<0.01					C lens 5m at 1.78% WO <sub>3</sub>

SPECIFIC GRAVITY

Determined by:

Depth (m) :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/5

LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.		
Original Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.
C 1852 1859	0.17 0.99	◀0.01 0.01		0.21 1.09		C 1901 1902	0.01 0.05	◀0.01 0.01		0.19 0.88	
C 1852 1859	0.17 0.99	◀0.01 0.01	C 1065 1066	0.20 1.40	0.29 0.05		0.16 1.40				
C 1853 1858	0.31 0.66	◀0.01 0.01	D 2074 D 2075	0.30 0.72	0.01 0.03						

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/5

LAB. K.I.S.			LAB. A.C.S.L.			LAB. A.M.D.L.			LAB.		
Original Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.
C 1859	0.99	0.01	C 1051	0.83	0.024	D 0227	1.51	0.06			
C 1853	0.31	< 0.01	D 0238	0.33	0.012	D 0237	0.44	0.03			

GEOPEKO LIMITED - DOLPHIN MINEGEOLOGICAL LOGD.D.H. NO. D 080/5

0 - 34.14

BIOTITE HORNFELS

This unit is a fine grained grey purplish brown barren hornfels.

It can be briefly subdivided as below:

0 - 8.53m generally a dark grey hornfels with reasonable ground conditions. RQD = 30%. Total core recovery = 88%. There is no apparent bedding and is generally featureless except for some minor carbonate veining at 2.6 - 2.7m. 8.53 - 14.94m mostly dark purplish brown bh with no mineralisation or bedding. Ground conditions are poor - RQD = 10%. Total core recovery = 81%.

Fault (?) (1) Minor brecciation and fine carbonate veining at 11.35m. Core recovery 10.67 - 11.89 = 56%.

(2) There is a distinct colour change to a pale grey bh at 14.8m. No brecciation or carbonate veining but core recovery 14.33 - 14.94 = 75%.

14.94 - 34.14 commences as a pale grey bh but there is a gradation to a darker grey bh by 20m. Bedding 16m 10° L.A.O.C. Barren quartz vein 22.15 - 22.35m. Core is more pale grey green and pyroxene rich 26 - 29m.

34.14 - 40.60

PYROXENE GROSSULAR HORNFELS B LENS (?)

A mottled pale pinkish green rock with minor carbonate. Minor disseminated scheelite throughout. Rock quality is good, RQD = 93%.

40.60 - 48.10

BIOTITE HORNFELS

Barren grey massive biotite hornfels.

48.10 - 49.80

BIOTITE ANDRADITE SKARN

There appears to be a gradation from the preceding bh into this unit which is a pyroxene skarn with a high biotite content particularly 48.10 - 49.0. Minor disseminated scheelite 49.35 - 49.60m.

Lower contact of this unit is at 25° L.A.O.C.

49.80 - 58.83

BIOTITE HORNFELS

Pale grey massive barren bh. Rock quality moderate.

GEOPEKO LIMITED - DOLPHIN MINEGEOLOGICAL LOGD.D.H. NOD 080/5

58.83 - 62.18

PYROXENE GARNET HORNFELS

A pale green (ph) pink (grossular garnet) rock with minor white carbonate. It is not typical pgh in appearance. The unit is totally barren except for 3cms coarse scheelite at 59m. Possible bedding at 60.1m at 25° L.A.O.C.

62.18 - 67.28

GARNET HORNFELS

A weakly mineralised pyroxene rich andradite skarn. The rock is fine to medium grained and there is good coarse scheelite 63 - 64m.

The quality of the core is generally poor and there is some lost ground. Lost core:-

63.90 - 64.44	0.35	recovery
64.44 - 64.62	0.12	"
64.62 - 65.35	0.60	"
65.35 - 65.66	0.23	"

67.28 - 69.67

PYROXENE GROSSULAR HORNFELS

A pink (grossular garnet) green (pyroxene) rock with occasional very weak disseminated scheelite. Minor carbonate.

69.67 - 71.86

BIOTITE PYROXENE HORNFELS

Predominantly a bh and ph rock, unbanded with abundant chlorite on joint surfaces. There is minor grossular garnet 71.7 - 72.0m. No mineralisation in this unit. The quality of core in this interval is poor.

71.86 - 77.60

PYROXENE GROSSULAR HORNFELS

This is basically a pink (gh) green (ph) rock, fine grained with no mineralisation. The unit is more bh rich towards the base. Bedding 75.8 30° L.A.O.C.  
76.3 40° L.A.O.C.

77.60 - 84.86

FOOTWALL HORNFELS

Mostly bh with moderate ph. The unit is barren. Bedding 80m 45° L.A.O.C.

83.30 - 83.80

APLITE

GEOPEKO LIMITED - DOLPHIN MINEGEOLOGICAL LOGD.D.H. NO. D 080/5

84.86 - 89.30

MARBLE

A barren grey marble with minor green pyroxene. All joint surfaces are carbonate filled.

89.30 - 92.0

BIOTITE HORNFELS

Barren grey brown biotite hornfels. Minor andradite skarn 90.9 - 91.0. This unit is more pyroxene rich towards the base.

92.0 - 97.66

QUARTZITE

Pale grey very siliceous quartzite. No mineralisation.

The contact between the mine series and quartzites is tight, and does not appear faulted.

97.66

E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 080/4PLANNING

Proposer: M. J. Danielson Depth: 100 metres

Location: 220080 E drill cuddy.

Purpose of hole: Oreblocking

Co-ordinates: 220080 E 564073 N

Inclination: -75 Target depth:

Bearing: 180 °Grid °Magnetic

Target: E N

Approved by: M. C. Rogers Date: 1/4/74

SURVEY

Survey Co-crds: E N

Survey bearing: °Grid °Magnetic

Surveyed in by: Date:

Actual Co-crds: 220079.7 E 564073.9 N

R.L. of collar: -72.9 Inclination of hole: -75°

Picked up by: M. G. Marchant Date: 5.4.74

SUMMARY

Logged by: M. J. Danielson

Results: C lens 64 - 67 3 m @ 0.34% WO<sub>3</sub>  
 74 - 78 4 m @ 1.83% "  
 81 - 85 4 m @ 1.27% "

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 2.4.74 Date terminated: 22.4.74

Casing:	Size :	BX				
	Depth:	1.5				
Core:	Size :	BQ				
	Depth:	95.40				

Wedge Runoff:

Wedge placed: Nil Depth:

Proposed by: Approved by:

Reason:

Extension: Nil Final depth: 95.40

Reason for termination: Passed into unmineralised footwall beds.

Condition of hole on completion:

Casing : 1.5 m BX

Cemented: Yes

Bore hole survey: Surveyed to 91.4 metres.

Water: Normal water return.

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLANDSUMMARY BORE HOLE SURVEY DATAD.D.H. NO. D 080/4

Survey method : Multishot Camera

Final depth : 95.40 m

Casing depth : 1.5 m BX

Depth surveyed to : 91.44 m

Date surveyed : 18.4.74

Surveyed by : (G. Buckland  
(V. Powell)

Checked by : M. J. Danielson

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		E <sub>w</sub>	N <sub>s</sub>
0	189	180		-75	0	0	0
15.2	194	185		-75	14.83	0.14	3.92
30.4	194	185		-75	29.56	0.49	7.84
45.7	197	188		-75	44.30	0.79	10.90
61.0	200	191		-74°30'	59.0	1.42	14.84
76.2	198	189		-74°30'	73.68	2.11	18.88
91.4	197	188		-75	88.36	2.72	22.87

REMARKS

GEOPEKO LIMITED - KING ISLANDSUMMARY STRUCTURAL DATAD.D.H. NO. D 080/4

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 18.2	bh	7		clay minor sulphides	15.4m 43°		72	bad ground 0 - 0.8 1.5 - 1.7 3.4 - 3.8
18.2 - 28.1	bh	12		clay			59	bad ground 18.3 - 18.9 19.4 - 20.9 26.9 - 27.2
28.1 - 31.9	ph / gh	7		clay		31.08 - 31.69 66% recov.	80	bad ground 31.1 - 31.3
31.9 - 32.3		+20					0	
32.3 - 34.9	ch	11		carbonate			75	bad ground 32.6 - 32.8
34.9 - 38.9	bh	+20					31	bad ground 34.9 - 36.4 37.0 - 37.2
38.9 - 41.0	ch	3					100	
41.0 - 63.0	ph / bh	10			56m 60°		64	bad ground 41.4 - 42.0 43.2 - 43.4 50.6 - 50.9 53.0 - 53.4
63.0 - 82.3	pgh / gh	3.7					91	
82.3 - 85.0	gh	15					41	
85.0 - 95.4	bh/ph/gh/ ch	7			88m 45° 91m 45°		74	

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLANDASSAY DATAD.D.H. NO. D 080/4

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO <sub>3</sub>	Mo		check	Assays		
c 1580	28	29			0.02	<0.01					
C 1230	29	30	1.0	1.0	0.49	0.01		0.35	<0.01		
C 1231	30	31	"	"	0.13	<0.01					
C 1581	62	63			<0.01	<0.01					
C 1582	63	64			0.03	<0.01					
C 1232	64	65	"	"	0.39	0.01					3 m at
3	65	66	"	"	0.31	0.01					0.34% WO <sub>3</sub>
4	66	67	"	"	0.31	0.01					
5	67	68	"	"	0.04	<0.01					
6	68	69	"	"	<0.01	<0.01					
7	69	70	"	"	0.10	<0.01					
8	70	71	"	"	0.29	0.02					
9	71	72	"	"	0.70	0.03		0.69	0.01		
40	72	73	"	"	0.17	<0.01					
1	73	74	"	"	0.22	0.01					
2	74	75	"	"	0.42	0.01					
3	75	76	"	"	1.27	0.03					4 m at
4	76	77	"	"	2.90	0.12					1.83% WO <sub>3</sub>
5	77	78	"	"	2.75	0.08					
6	78	79	"	"	0.19	<0.01					
7	79	80	"	"	<0.01	<0.01					
8	80	81	"	"	0.03	<0.01					
9	81	82	"	"	0.51	0.01					
50	82	83	"	"	1.96	0.06		0.95	0.04		4 m at
1	83	84	"	"	1.26	0.04					1.27% WO <sub>3</sub>
2	84	85	"	"	1.35	0.03					
C 1253	85	86	"	"	0.01	<0.01					
C 1583	86	87			0.09	<0.01					

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

S.G. :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/4

LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.		
Original Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.
C 1230	0.49	0.01	D 2194	0.55	0.01	C 1733	0.35	0.01	D 2237	0.38	0.01
1239	0.70	0.03	2193	0.76	0.02	1734	0.69	0.01	2238	0.74	0.02
1250	1.96	0.06				1735	1.95	0.04	2235	1.70	0.05
C 1230	0.49	0.01	D 2137	0.42	0.01	D 2409	0.43	0.02			
1239	0.70	0.03	2138	0.76	0.01	2410	0.74	0.03			
1250	1.96	0.06	2139	1.88	0.05	2411	1.90	0.06			

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/4

LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.			LAB.		
Original Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.
C 1250	1.96	0.06	D 0267	2.14	0.065	D 0268	1.53	0.024			

GEOPEKO LIMITED - KING ISLANDGEOLOGICAL LOGD.D.H. NO. D 080/4

Core Size 0 - 95.4 m BQ.

00 - 28.10

## B LENS HANGINGWALL BIOTITE HORNFELS

Core is moderately to heavily fractured 0 - 3 m with abundant carbonate veining. The hornfels are a grey brown colour with a mottled, flaggy appearance. Noticeable alteration in colour to grey at 18.3 m. Moderate pyroxene hornfels below 23.5 m becoming interbedded below 25.5 m. Bedding 26.3 m 60° L.A.O.C.

28.10 - 31.87

## PYROXENE GROSSULAR HORNFELS

A pale mottled green (pyroxene) pink (grossular garnet) rock with minor development of andradite skarn with minor disseminated scheelite 29.6 - 30.5 m.

31.87 - 34.87

## MARBLE

Typical B lens marble, barren, pale grey in colour. Upper contact 31.87 - 32.34 m very poor ground.

34.87 - 38.92

## BIOTITE HORNFELS

Barren grey brown biotite hornfels. Very poor ground conditions.

38.92 - 41.02

## MARBLE

Typical B lens marble as above.

41.02 - 63.0

## BIOTITE HORNFELS

C lens hangingwall biotite hornfels. Minor pyroxene hornfels banding 44.3 m with bedding 40° L.A.O.C. The core is a pale grey/green indicating more ph/ah between 45.4 - 49 m.

Bad ground between 50.6 and 53.2 m. Bedding 56.7 m 73° L.A.O.C.

GEOPEKO LIMITED - KING ISLANDGEOLOGICAL LOGD.D.H. NO. D 080/4

## 63.0 - 73.95 PYROXENE GARNET HORNFELS

Weakly mineralised greenish pyroxene rock with calcite ovoids generally less than 2 cm diameter.

## 73.95 - 78.33 GARNET HORNFELS

Typical fine to medium grained andradite skarn.

## 78.33 - 81.40 BIOTITE PYROXENE HORNFELS

Mottled biotite hornfels and pyroxene hornfels with no distinct bedding apparent. No mineralisation.

## 81.40 - 85.0 GARNET HORNFELS

Fine grained andradite skarn with moderate scheelite mineralisation.

## 85.0 - 95.4 BANDED FOOTWALL BEDS

Banded biotite hornfels / pyroxene hornfels and grossular garnet with some barren carbonate. No mineralisation.

Bedding 88.4 m 45° L.A.O.C.  
90.8 m 45° L.A.O.C.

95.40 metres E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 080/3PLANNING

Proposer: M. J. Danielson                      Depth: 85 metres  
 Location: Dolphin Mine  
           220080 E drill cuddy.

Purpose of hole: Oreblocking. Locate No. 3 Fault.

Co-ordinates:      220080 E    564077 N  
 Inclination:    -10°                      Target depth: 37 metres  
 Bearing:        360 ISG°Grid                      °Magnetic  
 Target:                      -   E                      -   N  
 Approved by: M. C. Rogers                      Date: 20.11.73

SURVEY

Survey Co-ords:    -   E                      -   N  
 Survey bearing: 360 ISG°Grid                      °Magnetic  
 Surveyed in by: K.I.S.                      Date: 1.2.74  
 Actual Co-ords: 220079.5 E 564079.2 N  
 R.L. of collar: -70.92                      Inclination of hole: -12°37'  
 Picked up by: M. G. Marchant                      Date: 15.3.74

SUMMARY

Logged by: M. J. Danielson  
 Results: C lens 45 - 54 m 9 m @ 0.96% WO<sub>3</sub>  
           Intersected No. 3 Fault 67.95 metres.

DRILLING

Driller / Contractor: A.D.D.  
 Date commenced: 11.3.74                      Date terminated: 15.3.74  
 Casing:    Size :                      -                      |                      |                      |                      |  
           Depth:                      -                      |                      |                      |                      |  
 Core:      Size :                      BQ                      |                      |                      |                      |  
           Depth:                      72.24                      |                      |                      |                      |

Wedge Runoff:

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

Extension: Nil                      Final depth: 72.24

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

Condition of hole on completion:

Casing : Nil  
 Cemented: Yes

Bore hole survey: Surveyed to 44.2 metres.

Water: Normal water return throughout.

Comments on drilling conditions: Hole caved at 44.2 metres.  
           Prevented complete bore hole survey.

GEOPEKO LIMITED - KING ISLANDSUMMARY BORE HOLE SURVEY DATAD.D.H. NO. D 080/3

Survey method : Multishot Camera

Depth surveyed to : 44.20 m

Final depth : 72.24 m

Date surveyed : 19.3.74

Casing depth : Nil

Surveyed by : V. Powell

Checked by : M. J. Danielson

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		E	W
15.2		349°		-11°	2.91	3.29	14.59
30.5		346°		-12°	6.05	6.80	29.08
44.2		345°		-13°15'	8.49	9.98	42.06

REMARKS

GEOPEKO LIMITED - KING ISLANDSUMMARY STRUCTURAL DATAD.D.H. NO. D 080/3

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 11.2		+20		0 - 3 pyrite Mostly clay.			19	
11.2 - 22.0		13		clay			44	15.8 - 16.5 shattered gr.
22.0 - 41.0		6		clay	31m 35°		82	37.5 - 38.0 shattered gr.
41.0 - 54.0		5					87	
54.0 - 63.0		12			57m 70° 60m 45°		58	
63.0 - 67.95		8					84	
67.95 - 72.24		+20					46	

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - DOLPHIN MINEASSAY DATAD.D.H. NO. D 080/3

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO <sub>3</sub>	Mo		CAD check Assays no. WO <sub>3</sub> Mo			
C 0888	41	42	1.0	1.0	0.07	0.01					
9	42	43	"	"	0.14	0.01					
90	43	44	"	"	0.40	0.10		C179	0.55	0.01	
1	44	45	"	"	0.22	0.01					
2	45	46	"	"	0.63	0.02					
3	46	47	"	"	2.43	0.11					
4	47	48	"	"	0.48	0.01					
5	48	49	"	"	0.18	0.01					
6	49	50	"	"	0.90	0.03				9.0m at 0.96% WO <sub>3</sub>	
7	50	51	"	"	0.62	0.02					
8	51	52	"	"	1.37	0.04					
9	52	53	"	"	1.37	0.05		C177	1.53	0.04	
C 0900	53	54	"	"	0.69	0.03					
C 1476	54	55	"	"	0.01	0.01					
7	55	56	"	"	0.01	0.01					
8	56	57	"	"	0.01	0.01					
9	57	58	"	"	0.01	0.01					
80	58	59	"	"	0.01	0.01					
1	59	60	"	"	0.02	0.01					
2	60	61	"	"	0.01	0.01					
3	61	62	"	"	0.01	0.01					
4	62	63	"	"	0.01	0.01					
5	63	64	"	"	0.03	0.01					
6	64	65	"	"	0.01	0.01					
C 1487	65	66	"	"	0.01	0.01					
C 1002	66	67	"	"	0.96	0.04				2m at 1.50% WO <sub>3</sub>	
3	67	68	"	"	2.05	0.08		C160	2.40	0.09	

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/3

LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.		
Original Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.
C 0890	0.40	0.01	D 2192	0.44	0.01	C 1754	0.55	0.01	D 2199	0.58	0.01
0899	1.37	0.05	2196	1.42	0.04	1747	1.53	0.04	2228	1.63	0.04
1003	2.05	0.08	2195	2.22	0.08	1760	2.40	0.09	2220	2.12	0.10
C 0890	0.40	0.01	D 2134	0.57	0.02	D 2406	0.58	0.02			
0899	1.37	0.05	2135	1.61	0.05	2407	1.58	0.06			
1003	2.05	0.08	2136	1.82	0.08	2408	2.45	0.09			

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/3

LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.			LAB.		
Original Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.
C 1003	2.05	0.08	D 0265	2.14	0.09	D 0266	1.58	0.048			

GEOPEKO LIMITED - KING ISLANDGEOLOGICAL LOGD.D.H. NO. D 080/3

0 - 41.10

## BIOTITE HORNFELS

Mostly a dark grey, massive, fine grained hornfels. No mineralisation.

0 - 3.0 m moderate pyrite on joint surfaces.

0 - 11.2 m core badly broken RQD = 18.7%.

15.8 - 16.5 m core badly broken.

17.2 - 18.0 m spotted with dark grey to black spots up to 2 mm dia. Similar in appearance to spotted volcanics.

22.20 - 28.75 m pale grey hornfels with flecks of biotite 0.5 mm dia.

Minor pyrrhotite at 39.7 m.

41.10 - 48.87

## PYROXENE GARNET HORNFELS

Minor disseminated scheelite throughout with some coarse grains up to 1 cm dia. Mostly barren 48.0 - 48.87 m where it is a pyroxene grossular hornfels.

48.87 - 53.45

## GARNET HORNFELS

Typical andradite garnet skarn. Good disseminated scheelite throughout.

53.45 - 63.0

## BIOTITE PYROXENE HORNFELS

Thinly banded biotite pyroxene hornfels. No mineralisation.

63.0 - 66.4

## BIOTITE HORNFELS

A massive pale purplish brown biotite hornfels. No mineralisation.

66.4 - 67.95

## PYROXENE SKARN

A pyroxene rich andradite skarn with good disseminated scheelite throughout.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. NO. D 080/3

67.95 - 72.24 QUARTZITE

Pale grey, badly broken. Typical of quartzite in mine area.

72.24 metres E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 080/2PLANNING

Proposer: M. J. Danielson                      Depth: 85 metres  
 Location: Dolphin Mine , 220080 E drill cuddy.

Purpose of hole: Oreblocking

Co-ordinates:      220080 E      564077 N

Inclination:      -79°                      Target depth:

Bearing:              360 °Grid                      °Magnetic

Target:                      E                      N

Approved by: M. C. Rogers                      Date: 20.11.73

SURVEY

Survey Co-ords:      220080 E      564077 N

Survey bearing:      340 °Grid                      °Magnetic

Surveyed in by:                      Date:

Actual Co-ords:      220079.0 E      564076.7 N

R.L. of collar:              -72.9                      Inclination of hole: -80°13'

Picked up by: M. G. Marchant                      Date: 1.4.74

SUMMARY

Logged by: M. J. Danielson

Results: C lens 48-50 m 2m @ 0.32%WO<sub>3</sub>

DRILLING

Driller / Contractor: A.D.D.

Date commenced: 28.3.74

Date terminated: 2.4.74

Casing:      Size : BX

                    Depth: 0.6

Core:              Size : NQ

                    Depth: 0.6

BQ

78.63

Wedge Runoff:

Wedge placed: Nil

Depth:

Proposed by:

Approved by:

Reason:

Extension:      Nil

Final depth: 78.63 m

Reason for termination: Hole passed into unmineralised footwall beds.

Condition of hole on completion:

Casing : 0.6 m BX remaining

Cemented: Cemented on completion

Bore hole survey: Surveyed to 76.2 m

Water: Normal water pressure throughout

Comments on drilling conditions:

GEOPEKO LIMITED - DOLPHIN MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO. D 080/2

Survey method : Multishot Camera  
 Final depth : 78.63 m  
 Casing depth : 0.60 m

Depth surveyed to : 76.20 m  
 Date surveyed : 2.4.74  
 Surveyed by : G. Buckland  
 Checked by : M. J. Danielson

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		W	N
15.2		338°30'		-79°30'	14.98	1.01	2.58
30.5		337°30'		-80°	29.99	2.02	5.02
45.7		336°30'		-80°	45.00	3.08	7.44
61.0		334°		-79°15'	59.97	4.32	10.00
76.2		333°		-80°	74.98	5.52	12.35

REMARKS

GEOPEKO LIMITED - KING ISLANDSUMMARY STRUCTURAL DATAD.D.H. NO. D 080/2

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 1.20								rubble
1.20 - 10.05		9		clay	8.3m 35°		52	
10.05 - 11.42						62%		
11.42 - 35.30		6		clay	19.3m 60° 20.5m 50°		77	
35.30 - 36.27		15		clay			30	
36.27 - 54.45		5		clay	48 m 58° 50.5m 48° 53m 55°		76	
54.45 - 62.17		10		chlorite			56	
62.17 - 78.63		7		clay	64m 45° 67m 45° 70m 65° 75m 75° 77m 80°	67.36- 69.49 43% recovered	87	

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - DOLPHIN MINEASSAY DATAD.D.H. NO. D 080/2

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS	
	From	To	Length	Length recovered	WO <sub>3</sub>	Mo						
C 1165	48	49	1.0	1.0	0.38	0.02						2 m at 0.32%WO <sub>3</sub> C lens
6	49	50	"	"	0.25	0.01						
7	50	51	"	0.80	0.10	0.01						
8	51	52	"	0.80	0.45	0.01						
C 1169	52	53	"	1.0	0.07	0.01						

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type :

S.G. :

GEOPEKO LIMITED - KING ISLANDGEOLOGICAL LOGD.D.H. NO. D 080/2

Core Size 0 - 0.6 NQ  
0.6 - 78.63 BQ

0 - 9.60

## BIOTITE HORNFELS

This unit is a pale brownish grey hornfels. No mineralization with no distinct bedding, although occasional fine interbeds of pyroxene hornfels eg. 8.30 indicate 35° L.A.O.C. Core is extremely broken 0 - 1.3 m.

9.60 - 19.00

## BIOTITE HORNFELS

9.60 - 12.90 grey bh with fine carbonate veining.  
12.90 - 13.70 pale green ph.  
13.70 - 19.00 mostly a grey bh with some fine irregular green inclusions of ph. Ph content increases down the hole and the contact with B lens hornfels is hazy.

Core is extremely broken between 10.05 - 11.42 with approximately 0.85m recovered.

19.00 - 24.50

## B LENS HORNFELS

This unit is a variable purplish brown (bh), green (ph) and mottled pinkish brown (grossular garnet skarn). The skarn is only very weakly developed with minor disseminated scheelite developed, 23.65 - 23.74, 24.27 - 23.74 m.

Bedding: 19.3 m 60° L.A.O.C.  
20.5 m 50° L.A.O.C.

24.50 - 30.70

## MARBLE

Typical dirty grey barren B lens marble.

GEOPEKO LIMITED - KING ISLANDGEOLOGICAL LOGD.D.H. NO.D 080/2

## 30.70 - 46.32 BIOTITE HORNFELS

30.70 - 35.30 mostly a flecked brown biotite hornfels with irregular variable green ph. No mineralization.

35.30 - 39.50 this is a mixture of purplish brown biotite hornfels and pale green ph sometimes in a disturbed bedded relationship (37.0 m) or a mottled brown/green texture (38.70) 36.6 - 36.9 a brecciated texture with partially rounded pale grey fragments of actinolite (?) hornfels enclosed within a purplish/brown biotite hornfels.

39.50 - 46.32 this is a more typical brownish grey massive fine grained hangingwall biotite hornfels.

## 46.32 - 46.40 FAULT (?)

Several fragments of breccia with angular fragments of bh enclosed in a grey white carbonate.

46.<sup>40</sup>~~32~~ - 53.70 BANDED C LENS SKARN

This banded unit has the appearance of the "lower C lens" mineral horizon. It is a banded ph/andradite garnet skarn and some unreplaced carbonate. The unit is variably mineralized between 48.0 and 52.0 m but is only low grade.

Bedding: 48 m 58° L.A.O.C.  
50.5 m 48° L.A.O.C.  
53.0 m 55° L.A.O.C.

## 53.70 - 62.17 BIOTITE HORNFELS/PYROXENE HORNFELS

This is a barren bh/ph with minor developments of grossular garnet and carbonate but no mineralization. This unit is NOT banded.

## 62.17 - 76.20 BANDED BIOTITE HORNFELS/PYROXENE HORNFELS

This is the more typical thinly banded bh/ph - unmineralized.

Bedding: 64.0 m 45° L.A.O.C.  
66.8 m 45° L.A.O.C.  
70.5 m 65° L.A.O.C.

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76.20 - 78.63 BANDED FOOTWALL BEDS

This unit is very similar to the banded bh/ph but some beds of a pale pink grossular garnet up to 3 cm wide are now developed. No mineralization.

Bedding: 75.0 m 75<sup>o</sup> L.A.O.C.  
77.5 m 80<sup>o</sup> L.A.O.C.

78.63 E.O.H.

GEOPEKO LIMITED - KING ISLANDLOG OF D.D.H. NO: D 080/1PLANNING

Proposer: M. J. Danielson                      Depth: 75 metres  
 Location: Dolphin Mine, 220080 E drill cuddy.

Purpose of hole: Oreblocking

Co-ordinates:      220080 E    564077 N  
 Inclination:      -44°                      Target depth:  
 Bearing:            360° Grid                      ° Magnetic  
 Target:                                      E                      N  
 Approved by: M. C. Rogers                      Date: 20/11/73

SURVEY

Survey Co-ords:    220080 E    564077 N  
 Survey bearing:    360° Grid                      ° Magnetic  
 Surveyed in by:                                      Date:  
 Actual Co-ords: 220079.0 E 564077.4 N  
 R.L. of collar: -72.5                      Inclination of hole: -43°  
 Picked up by: M. G. Marchant                      Date: 5.4.74

SUMMARY

Logged by: M.J. Danielson  
 Results: No. 3 Fault at 71.34 metres.  
           C lens 29 - 31 2 m @ 1.45% WO<sub>3</sub>  
                   34 - 42 8 m @ 1.48% " <sub>3</sub>  
                   44 - 53 9 m @ 0.76% "

DRILLING

Driller / Contractor: A.D.D.  
 Date commenced: 25.3.74                      Date terminated: 28.3.74

Casing:	Size :	BX				
	Depth:	1.06				
Core:	Size :	NQ	BQ			
	Depth:	1.06	77.42			

Wedge Runoff:

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

Extension: Nil                      Final depth: 77.42

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

Condition of hole on completion:

Casing : 1.06 m BX, casing remains.

Cemented: Cemented on completion

Bore hole survey: Surveyed to 70.71 m. General bearing of hole 355° grid.

Water: This hole made a little water 1g/5<sub>min</sub> between 37.5 - 40.2 m.

Comments on drilling conditions:

GEOPEKO LIMITED - DOLPHIN MINESUMMARY BORE HOLE SURVEY DATAD.D.H. NO. D 080/1

Survey method : Multishot Camera

Depth surveyed to : 70.71 m

Final depth : 77.42 m

Date surveyed : 28.3.74

Casing depth : 1.06 m

Surveyed by : G. Buckland

Checked by : M. J. Danielson

DEPTH (metres)	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		W	N
15.2		345°15'		- 43°	10.41	2.89	10.75
30.5		345°		- 43°15'	20.85	5.75	21.42
45.7		344°		- 43°	31.23	8.82	32.14
61.0		343°30'		- 43°15'	41.69	11.97	42.78
70.71		343°30'		- 43°15'	48.37	13.99	49.59

REMARKS

GEOPEKO LIMITED - KING ISLANDSUMMARY STRUCTURAL DATAD.D.H. NO. D 080/1

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
00 - 7.31	bh	14		clay			45	
7.31 - 14.50	bh/spotted bh	17		clay			24	
14.50 - 23.95	bh/ph	9		clay	18.5m 55° 20m 65° 23.3m 45°		53	20.5 - 21.6 Badly broken ground.
23.95 - 42.30	pgh/gh	6		clay	30m 62°	35.5-37.5 20% loss	90	
42.30 - 54.83	marker/ banded gh	7		clay	42.5m 50° 49m 45° 52m 27°		69	
54.83 - 71.54	bh/ph	7		clay	59m 50° 62m 63° 65m 50°	54.65 - 57.30 65% loss	79	Fault? 54.65 - 57.30
71.54 - 77.42	q	+20					25	

FURTHER DATA & REMARKS (Compression Tests)

37.5 - 40.2 m Water.

GEOPEKO LIMITED - DOLPHIN MINE

ASSAY DATA

D.D.H. NO. D 080/1

SAMPLE NO.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO <sub>3</sub>	Mo		<i>check assays</i> No. WO <sub>3</sub> Mo			
1576	27	28	1.0	1.0	<0.01	<0.01					
1577	28	29	"	"	<0.01	<0.01					
C 1045	29	30	"	"	2.40	0.16					
76	30	31	"	"	0.50	0.02		<i>2.75</i>	<i>0.46</i>	<i>0.01</i>	2m at 1.45% WO <sub>3</sub>
C 1471	31	32	"	"	<0.01	<0.01					
2	32	33	"	"	<0.01	<0.01					
3	33	34	"	"	0.02	<0.01					
C 1047	34	35	"	"	0.28	0.03					
8	35	36	"	"	2.30	0.09					
9	36	37	"	0.80	2.70	0.11					
C 1050	37	38	"	"	0.41	0.02					
C 1151	38	39	"	1.0	2.70	0.23					8m at 1.48% WO <sub>3</sub>
2	39	40	"	"	2.20	0.12					
3	40	41	"	"	0.54	0.02					
4	41	42	"	"	0.69	0.03					
C 1474	42	43	"	"	<0.01	<0.01					
5	43	44	"	"	<0.01	<0.01					
C 1155	44	45	"	"	1.10	0.05					
6	45	46	"	"	0.88	0.03					
7	46	47	"	"	0.70	0.03					
8	47	48	"	"	1.30	0.06					
9	48	49	"	"	0.34	0.02					
60	49	50	"	"	0.42	0.01					
1	50	51	"	"	0.58	0.02					
2	51	52	"	"	0.78	0.03					
C 1163	52	53	"	"	0.76	0.05					
1578	53	54	"	"	0.12	<0.01					
1579	54	55	"	"	0.01	<0.01					
C 1164	61	62	"	"	0.21	<0.01					

SPECIFIC GRAVITY

Determined by:

Depth (m) :

Rock Type

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 080/1

LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.			LAB. K.I.S.			
Original Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	
C 1046	0.50	0.02	D 2169	0.59	0.01	C 1759	0.46	0.01	D 2221	0.47	0.01	
C 1046	0.50	0.02	D 2133	0.58	0.03	D 2405	0.58	0.04				

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CHECK ASSAY DATA

D.D.H. D 080/1

LAB. K.I.S.			LAB. A.M.D.L.			LAB. A.C.S.L.			LAB.		
Original Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.	Check Sample No.	WO <sub>3</sub>	Mo.
C 1046	0.50	0.02	D 0263	0.52	0.035	D 0264	0.92	0.021			

GEOPEKO LIMITED - KING ISLANDGEOLOGICAL LOGD.D.H. NO.D 080/1

Core Size 0 - 1.06 NQ  
 1.06 - 77.42 BQ

0 - 7.31

## BIOTITE HORNFELS

Pale brown, massive, barren biotite hornfels. No apparent bedding.

7.31 - 11.00

## BIOTITE HORNFELS

Significant change in colour to a dark grey. Massive, fine grained, barren.

At 8.22 m a 5 cm carbonate vein containing a 1.5 cm wide vein of epidote.

11.00 - 14.50

## SPOTTED BIOTITE HORNFELS

Spotted dark grey biotite hornfels. Spots are black in colour approximately 4 mm diameter. No mineralization. No bedding.

14.50 - 21.64

## BIOTITE HORNFELS

Unspotted variable grey hornfels.

Bedding: 18.5 m 55° L.A.O.C.

20 m 65° L.A.O.C.

Minor 6 cm pyroxene bedding at 20 m. 0.75 m core loss 20.89 - 21.64.

21.64 - 23.95

## BANDED BIOTITE HORNFELS/PYROXENE HORNFELS

Common pyroxene hornfels bedding up to 10 - 12 cms wide in a purplish brown biotite hornfels.

Bedding: 23.30 m 45° L.A.O.C.

22.0 m 47° L.A.O.C.

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23.95 - 31.08

## PYROXENE GARNET HORNFELS

Mainly a green, fine grained pyroxene hornfels with interbedded pale pink grossular garnet, minor carbonate.

27.0 - 28.1 mottled appearance, dark brown green pyroxene hornfels.

28.85 - 30.75 minor andradite skarn with minor scheelite.

Bedding: 30 m 62° L.A.O.C.

31.08 - 33.75

## BIOTITE HORNFELS

Barren grey, green pyroxene hornfels/biotite hornfels.

33.75 - 42.30

## GARNET SKARN

Typical andradite skarn. Medium grained, good disseminated scheelite.

35.48 - 37.49 only 1.62 m recovered.

42.30 - 43.15

## BIOTITE HORNFELS

A purplish grey biotite hornfels with some interbedded green pyroxene hornfels. No mineralization.

Bedding: 42.5 m 50° L.A.O.C.

43.15 - 44.63

## MARBLE MARKER (?)

43.15 - 44.11 barren grey marble.

Bedding: 43.5 m 55° L.A.O.C.

44.11 - 44.63 bh/ph/gh/ch. Minor skarn developed at 44.45 - 44.52 with minor scheelite.

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44.63 - 54.85

## BANDED C LENS SKARN

Banded andradite skarn with interbedded green pyroxene hornfels, barren grey carbonate and pale grossular garnet.

Bedding: 49.5 m 45° L.A.O.C.  
52 m 27° L.A.O.C.

54.83 - 61.30

## BANDED BIOTITE HORNFELS/PYROXENE HORNFELS

Thinly banded barren bh/ph.

Bedding: 59 m 50° L.A.O.C.  
60 m 55° L.A.O.C.

FAULT(?) 56.45 - 57.30 only 0.30 m recovered.

Bedding: 62.5 m 63° L.A.O.C.  
64.8 m 50° L.A.O.C.

61.30 - 66.70

## BANDED PYROXENE HORNFELS/GARNET HORNFELS

Banded ph and grossular garnet with minor bh and carbonate. Very minor disseminated scheelite.

66.70 - 67.96

## BIOTITE HORNFELS

Purplish brown bh with visible flecks of biotite up to 1 mm long.

67.96 - 71.54

## MARBLE

Barren grey marble.

71.54 - 77.42

## QUARTZITE

Badly broken grey quartzite.

77.42 metres E.O.H.