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GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 400/14

PLANNING

PROPOSER: C. Kendall DEPTH: 57m

LOCATION: L40

PURPOSE OF HOLE: Test Granite Contact

PROPOSED CO-ORDS: 40 373 E, 10 400 N

INCLINATION: -60°

BEARING: 270° °Grid °Mag

TARGET: E N

DEPTH:

CHECKED BY: DATE:

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 273° 54' °Grid °Mag

SURVEYED IN BY: R. Howman DATE: 4.11.81

ACTUAL CO-ORDS: 40 372.38 E 10 399.94 N

R.L. OF COLLAR: 878.44

INCLINATION OF HOLE: -60° 17'

PICKED UP BY: B. Lennon DATE: 6.11.81

SUMMARY

LOGGED BY: C. Kendall

RESULTS:

DRILLING

DATE COMMENCED: 5.11.81 DATE TERMINATED: 12.11.81

DRILLER/CONTRACTOR: K.I.S.

CASING: SIZE:
DEPTH:

CORE: SIZE: 46TT
DEPTH: 55

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH:

REASON FOR TERMINATION:

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. 400/14

Surveyed method: M.S
Final depth: 55M
Casing depth: 0.5 M

Depth surveyed to: 55M
Date surveyed: 12.11.81
Surveyed by: C. O. B.
Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.			
4	268° 24'	240° 24'	30° 30'	149° 30'			
13	268.32	240.32	30.30	149.30			
22	268.35	240.35	30.00	150.00			
31	268.37	240.37	30.00	150.00			
40	268.37	240.37	30.00	150.00			
49	268.37	240.37	30.00	150.00			
55	268.45	240.45	30.00	150.00			

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No.BH 400/14

0.00 - 6.30 PYROXENE GARNET HORNFELS (MINERALISED)

Green to grey brown podded unit showing textural change with depth from sugary to very fine grained.

Garnet content also change from being a fine grossular groundmass to small crysalline garnet.

Mineralisation is very weak (0.1% WO_3) with fine scheelite grains weakly disseminated throughout.

Pods are mostly calcite showing dark rims of garnet and pyroxene.

Joints	25^{o}	LCA Chlorite filled
	60^{o}	LCA
	30^{o}	LCA
	90^{o}	LCA Calcite filled

6.30 - 7.0 m BIOTITE PYROXENE HORNFELS

A banded unit of biotite pyroxene hornfels showing some banding 65^{o} LCA.
Weakly podded - non mineralised.

7.00 - 16.4 m PYROXENE GARNET HORNFELS

A variable unit ranging from a mottled, medium grain sized grey green unit showing some banding to a fine grain, grained green, pyroxene rich podded unit. Mineralisation is confined to a narrow band from 10.7 to 11.8 which shows some skarmification.

From 12.7 to 15.8 m; rock type is dark grey in colour with numerous pods of calcite. The groundmass is fine grained calcite rich - showing no evidence of mineralisation or replacement.

From 15.8 to 16.4 m. Colour green to grey with garnets (mostly grossular) barren.

16.4 - 29.3 m MARBLE

Banded unit showing iron staining. Leach zones at 18.0 and 25.0 m.

Joints:	50^{o}	LCA
	55^{o}	LCA
	40^{o}	LCA
	23^{o}	LCA
	30^{o}	LCA

29.3 - 29.7 m BIOTITE HORNFELS

Banded biotie hornfels with minor pyroxene banding.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 400/14

29.7 - 30.3 m PYROXENE GARENET HORNFELS (MINERALISED)

Very weakly mineralised (2% WO_3) banded some bands showing distortions.

30.3 - 35.0 m BANDED FOOTWALL BEDS

Banded unit of marble and biotite hornfels from 30.3 to 32.3 - decomposed and distorted..
At 35.0 m possible fault zone.

35.0 - 46.3 m BIOTITE PYROXENE HORNFELS

Biotite rich banded unit with numerous calcite filled joints. Some iron staining visible.

Joints: 50° LCA
55° LCA
52° LCA
60° LCA
Banding 36°

46.3 - 48.3 m APLITE

Dark mafic rich coarse grained with large feldspars.
Broken at 47.0 m.

48.3 - 5.12 m BIOTITE PYROXENE HORNFELS

As above, granite inclusion at 49.2 m-pryoxene content increasing . Some grossulargarnets.

51.2 - 55.0 m GRANITE

Fine grained dark near contact grading to pink coarse grained feldspar rich.

No economic mineralisation.

EOH 51.2 m

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 400/14

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
00.0 - 2.8	2.5	2.80	89
2.8 - 5.3	2.4	2.50	96
5.3 - 7.2	1.9	1.9	100
7.2 - 9.4	2.3	2.2	105
9.4 - 11.4	2.1	2.0	105
11.4 - 13.6	2.1	2.2	95
13.6 - 15.8	2.3	2.2	105
15.8 - 18.7	2.8	2.9	97
18.7 - 20.7	1.9	2.0	95
20.7 - 22.6	2.1	1.9	111
22.6 - 25.1	2.1	2.5	84
25.1 - 27.2	2.2	2.1	105
27.2 - 29.7	2.4	2.5	96
29.7 - 32.3	2.6	2.6	100
32.3 - 35.0	2.7	2.7	100
35.0 - 38.4	3.5	3.4	103
38.4 - 41.3	2.9	2.9	100
41.3 - 41.1	1.9	1.8	106
43.1 - 46.1	3.1	3.0	103
46.1 - 49.0	2.9	2.9	100
49.0 - 5.17	2.9	2.7	107
51.7 - 54.6	3.8	2.9	97
54.6 - 55.0	0.5	0.4	125


DDH BH 400/14
0.00 — 15.08 m.


DDH BH 400/14
15.08 — 30.01 m.


DDH BH 400/14
30.01 — 44.54 m.


DDH BH 400/14
44.54 — 55.00 E.O.H. m.

O.C. to Grey

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 400/13

PLANNING

PROPOSER: C. Kendall DEPTH: 65 m

LOCATION: L40

PURPOSE OF HOLE: Test Granite Contact

PROPOSED CO-ORDS: 40 373 E 10 400 N

INCLINATION: -90°

BEARING: °Grid °Mag

TARGET: E N

DEPTH:

CHECKED BY: DATE:

SURVEY

SURVEY CO-ORDS: 40 373.1 E 10 399.92 N

SURVEYED BEARING: °Grid °Mag

SURVEYED IN BY: R. Howman DATE: 2.11.81

ACTUAL CO-ORDS: 40 373.10 E 10 399.92 N

R.L. OF COLLAR: 878.4

INCLINATION OF HOLE: -90°

PICKED UP BY: B. Lennon DATE: 13.11.81

SUMMARY

LOGGED BY: C. Kendall

RESULTS: 8.0 m at 0.14% WO_3

DRILLING

DATE COMMENCED: 12.11.81 DATE TERMINATED:

DRILLER/CONTRACTOR: KIS

CASING: SIZE:
DEPTH:

CORE: SIZE: 46TT
DEPTH:

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH:

REASON FOR TERMINATION:

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 400/13

Surveyed method: Multishot
Final depth: 59.5 m
Casing depth: 0.5 m

Depth surveyed to: 58.5 m
Date surveyed: 19.11.81
Surveyed by: R. Drake
Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		N	E
10	348.00	N40.00W	0° 45'	179.25	10	10399.9	40373.1
19	358.00	N30.00W	0° 45'	179.25	19	10400.0	40373.1
28	358.00	N30.00W	0° 45'	179.25	28	10400.2	40373.1
37	352.75	N35.15W	0° 37'	179.38	37	10400.4	40373.1
46	357.75	N30.15W	0° 55'	179.08	46	10400.4	40373.1
58	347.75	N40.15W	1.00	179.00	58	10400.6	40373.0

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 400/13

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.7 m	2.7	2.3	85
2.7 - 5.7	3.0	3.0	100
5.7 - 7.5	1.8	1.9	106
7.5 - 10.3	2.8	2.8	100
10.3 - 13.3	3.0	2.95	98
13.3 - 16.2	3.0	3.0	100
16.2 - 19.2	3.0	2.8	97
19.2 - 20.6	1.4	1.5	107
20.6 - 22.5	1.9	1.9	100
22.5 - 25.1	2.6	2.5	96
25.1 - 28.0	2.9	2.9	100
28.0 - 31.0	3.0	2.9	97
31.0 - 33.8	2.8	2.7	96
33.8 - 36.2	2.4	2.4	100
36.2 - 37.7	1.5	1.4	93
37.7 - 41.3	3.6	3.6	100
41.3 - 43.2	1.9	1.9	100
43.2 - 45.9	2.7	2.6	96
45.9 - 48.0	2.1	2.0	95
X 48.0 - 50.09	2.0	2.8	97
X 50.09 - 53.8	2.9	2.9	100
53.8 - 56.3	2.5	2.5	100
56.3 - 58.6	2.3	2.4	104
58.6 - 59.5	0.9	0.7	78
EOH			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 400/13

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 8664	0	1	1.0	1.0	0.17			
65	1	2	"	"	0.10			
66	2	3	"	"	0.08			
67	3	4	"	"	0.09			
68	4	5	"	"	0.17			
69	5	6	"	"	0.10			
70	8	9	"	"	0.09			
71	9	10	"	"	0.34			
72	39	40	"	"	0.15			
73	54	55	"	"				

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 400/13

0.0 - 6.3 m PYROXENE GARNET HORNFELS (PODDED)

A light green to grey brown coloured unit consisting of biotite, pyroxene groundmass with calcite pods randomly distributed. The calcite pods tend to have pyroxene rich rims and show some zoning.

Garnets present are small grossulars and tend to form part of the ground mass rather than individual crystals.

The unit is weakly mineralised with very fine scheelite grains disseminated throughout. Lamp estimate of 0.1% to 0.15% WO_3. There is no veining obvious, but there is one major joint from 3.7 m to 6.3 m.

Orientation 10° LCA. Th joint is chlorite filled.

Joint orientation 10° LCA
55° LCA
25° LCA
50° LCA

6.3 - 9.0 BIOTITE PYROXENE HORNFELS (PODDED)

Similar to the previous unit except there is no scheelite mineralisation.

9.0 - 10.0 PYROXENE GARNET HORNFELS (MINERALISED)

A very pyroxene rich unit showing strong scheelite mineralisation (lamp estimated 0.5% WO_3). Garnets are a mixture of andradite and grassular in about equal proportions.

10.0 - 13.6 MARBLE

This unit consists mostly of marble with small garnet crystals throughout. The groundmass is a very fine marble containing pods of coarse grained, apparently recrystallised marble. There are some areas which are pyroxene rich. The garnet concentration increase with depth. The unit is not mineralised.

Joint 55° LCA

13.6 - 22.3 MARBLE

Fine grained crystalline marble. Shows no replacement.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 400/13

22.3 - 29.0 BANDED BIOTITE PYROXENE GARNET MARBLE UNIT

This unit consists of repeated bands of biotite, pyroxene, garnet hornfels within a marble groundmass.

The marble is generally coarse grained, crystalline.

The bands vary from 1 cm to 7 cm wide and show varying degrees of mineralisation. The garnets (mostly grossular) are very small and form part of the groundmass down to 27 m, from 27 m to 28.4 m the garnets become larger and form individual crystals. There is only trace mineralisation associated with these garnets.

The bands show zoning inwards. There is one band from 26.8 m to 27.1 m which is strongly mineralised 0.5 and 0.6% WO_3, calcite filled joint at 25.2 m.

29.0 - 55.6 BIOTITE PYROXENE HORNFELS

This unit consists of small marble horizons, some of which are partially replaced and mineralised, as well as banded biotite pyroxene hornfels.

29.0 - 32.0 Mainly marble.
32.0 - 33.8 Biotite pyroxene hornfels - non mineralised - some banding, no garnets, very fine grained, strongly jointed 25° 45° 15° LCA broken ground at 33.8 m.
33.8 - 36.5 Partially replaced marble showing garnet hornfels replacement. Some biotite, pyroxene associated with the garnets. No mineralisation, Fault zone at 36.2 ground very broken and crumbly.
36.5 - 38.5 Biotite pyroxene hornfels
38.5 - 40.3 Pyroxene garnet hornfels ⇨ mineralised zone 0.1% - 0.2% WO_3
40.3 - 50.9 Banded biotite hornfels; fault zone at 45.9 m
50.9 - 54.6 Marble non mineralised; marble recrystallised at 53.9 Shows a definite red colour; ground very broken from 54.6 to 56.3 m.

EOH


DDH BH 400/13
0.00 — 15.00 m.


DDH BH 400/13
15.00 — 30.11 m.


DDH BH 400/13
30.11 — 40.05 m.


DDH BH 400/13
45.05 — 59.50 E.O.H m.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 400/11

PLANNING

PROPOSER: R. E. Sandell Davies — DEPTH: 35 m

LOCATION: Q42

PURPOSE OF HOLE: Test BF1

PROPOSED CO-ORDS: 40 394 E 10 400 N

INCLINATION: +70°

BEARING: 090° °GRID °MAG

TARGET: E N

DEPTH:

CHECKED BY: T. Potter — DATE: 1/4/80

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 88° 25' °GRID °MAG

SURVEYED IN BY: B. Lennon — DATE:

ACTUAL CO-ORDS: 40 395.2 E 10 399.8 N

R.L. OF COLLAR: 955.2

INCLINATION OF HOLE: +71° 24'

PICKED UP BY: B. Lennon — DATE: 11/4/80

SUMMARY

LOGGED BY: R. E. S. Davies

RESULTS: 6.0 - 21.0 m, 15 m @ 0.66 BF1
24.0 - 25.0 m, 1.0m @ 0.96 BF1
31.0 - 32.0 m, 1.0m @ 0.38 BF1

DRILLING

DATE COMMENCED: 8/4/80 DATE TERMINATED: 11/4/80

DRILLER/CONTRACTOR: S. Batchelor/A.D.D.

CASING: SIZE:
DEPTH:

CORE: SIZE: BQ
DEPTH: 39 m

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 39 m

REASON FOR TERMINATION: In quartzites

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY: Not Surveyed

WATER:

COMMENTS ON DRILLING CONDITIONS: Good

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 400/11

Surveyed method: N.S.
Final depth: 39.0 m
Casing depth: Nil

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

Projection from Collar Survey

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.			
10.0	88.4		71° 24'				
20.0	88.4		71° 24'				
30.0	88.4		71° 24'				
39.0	88.4		71° 24'				

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 400/11

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	2.9	97
3.0 - 5.7	2.7	2.7	100
5.7 - 6.6	0.9	0.80	89
6.6 - 9.6	3.0	3.0	100
9.6 - 12.6	3.0	3.0	100
12.6 - 15.0	2.4	2.3	96
15.0 - 18.0	3.0	3.0	100
18.0 - 21.0	3.0	3.0	100
21.0 - 22.5	1.5	1.5	100
22.5 - 25.5	3.0	3.0	100
25.5 - 28.5	3.0	3.0	100
28.5 - 31.3	2.8	2.8	100
31.3 - 33.7	2.4	2.4	100
33.7 - 36.4	2.7	2.5	96
36.4 - 39.0	2.6	2.6	100
EOH 39.0 m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 400/11

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 8201	0	1	1.0	1.0	0.13	0.02		
02	1	2	"	"	0.14	0.02		
03	2	3	"	"	0.01	0.01		
04	3	4	"	"	0.17	0.01		
04	4	5	"	"	0.01	0.01		
06	5	6	"	"	0.01	0.01		
07	6	7	"	"	0.63	0,04		
08	7	8	"	"	0.40	0.01		
09	8	9	"	"	0.03	0,01		
10	9	10	"	"	0.04	0,01		
11	10	11	"	"	1.24	0.05		
12	11	12	"	"	1.02	0.03		
13	12	13	"	"	0.29	0,01		
14	13	14	"	"	0.45	0.01		
15	14	15	"	"	0.52	0.01		
16	15	16	"	"	2.23	0,08		
17	16	17	"	"	0.95	0.18		
18	17	18	"	"	1.42	0.15		
19	18	19	"	"	0.33	0.04		
20	19	20	"	"	0.01	0.01		
78	20	21	"	"	0.41	0.05		
21	21	22	"	"	0.16	0.01		
22	22	23	"	"	0,01	0.01		
23	23	24	"	"	0.01	0.01		
24	24	25	"	"	0.96	0.18		
25	25	26	"	"	0.01	0.01		
76	26	27	"	"	0,01	0.01		
77	31	32	"	"	0.38	0.02		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 400/11

0.0 - 2.0 m **GARNET PYROXENE BIOTITE HORNFELS**

Poorly mineralised, disturbed biotite pyroxene hornfels. Bedding is good but disturbed, approximately parallel to long core areas.

2.0 - 4.2 **MARBLE**

Clean barren marble with some grossular garnet present, domformable contacts above and below.

4.2 - 6.0 **BIOTITE HORNFELS**

Well laminated biotite hornfels with some, marble present.

Bedding is at 13° to LCA @ 5.8 m

6.0 - 18.3 **GARNET SKARN**

Mostly massive good grade garnet skarn. Up to 15 m it is interbedded with pyrxoene hornfels and biotite hornfels. Bedding is disturbed @ 12 - 14 m.

Bedding is at 27° to LCA @ 19.3 m

18.3 - 24.0 **MARBLE**

Clean fresh C2 marble garnet skarn replacement at 20.73 - 21.2 m

24.0 - 25.2 **GARNET PYROXENE BIOTITE HORNFELS**

Mineralised garnet skarn from 24.0 - 24.85 m, the remainder is podded biotite hornfels

25.2 - 33.6 **BIOTITE PYROXENE HORNFELS**

Interbedded and disturbed biotite pyroxene hornfels. A scheelite vein is present @ 31.8 m

Bedding is @ 34° to LCA @ 28.2 m
" 34° 32.4 m

33.6 - 39.0 **QUARTZITES**

Dark grey fine grained silcieous rock with angular fracture and pyrite on joint planes..

The Boundary Fault is at assumed to be at 33.6 - 35.4 represented by some fractured and disturbed rehealed core.

EOH 39.0 m


DDH BH 400/11
0.00 — 15.26 m.


DDH BH 400/11
15.26 — 29.70 m.


DDH BH 400/11
29.70 — 39.00 m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 400/10

PLANNING

Proposer: J. M. Clark — Depth: 100 m

Location: R40

Purpose of hole: To test C_1 West C_2 West.

Co-ordinates: 40305 E 10400 N

Inclination: -72° — Magnetic:

Bearing: 090 Grid — Target depth:

Target: E N

Approved by: — Date:

SURVEY

Survey Co-ords: E N

Survey bearing 084 Grid — Magnetic:

Surveyed in by: — Date:

Actual Co-ords: 40310.2 E 10401.8 N

R.L. of collar: 941.06 — Inclination of hole: -72°

Picked up by: B. Lennon — Date: 4-4-78

SUMMARY

Logged by: J. M. Clark

Results: 78.73 m, 5m at 1.02% WO_3, 0.05% Mo

DRILLING

Driller/Contractor: A.D.D.

Date Commenced: 29-3-78 — Date Terminated: 12-4-78

Casing: Size : BQ

Depth : 1m

Core: Size : 46TT

Depth : 110.0

Wedge Runoff:

Wedge Placed: — Depth:

Proposed by: — Approved by:

Reason:

Extension:

Final depth: 110.0 m

Reason for termination: In adamellite

Condition of hole on completion:

Casing:

Cemented:

Bore hole survey: Multishot

Water:

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 400/10

Survey method: Multishot Camera
Final depth: 110.0 m
Casing depth: 1.0 m

Depth surveyed to: 110.0 m
Date surveyed: 7-4-78
Surveyed by: L. Denby
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	E
21	082	54	18°0'	-72.0°	19.97	0.90	6.43
51	082	54	17°45'	-72.25°	48.55	2.17	15.49
81	082	54	17°30'	-72.50°	77.16	3.43	24.42
110	082	54	17°15'	-72.75°	105.81	4.67	33.23

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 400/10

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.0	3.0	2.20	73
- 6.0	3.0	2.97	99
- 9.0	3.0	2.98	99
- 12.0	3.0	2.98	99
- 15.0	3.0	2.98	99
- 17.0	2.0	2.0	100
- 20.0	3.0	2.98	99
- 23.0	3.0	2.94	98
- 26.0	3.0	2.98	99
- 29.0	3.0	2.95	98
- 32.0	3.0	2.98	99
- 36.0	4.0	4.0	100
- 40.0	4.0	3.95	99
- 43.0	3.0	3.0	100
- 46.0	3.0	3.0	100
- 50.0	4.0	4.0	100
- 53.0	3.0	2.95	98
- 56.0	3.0	2.96	98
- 58.0	2.0	1.95	98
- 63.0	5.0	4.90	98
- 66.0	3.0	2.98	99
- 69.0	3.0	3.0	100
- 72.0	3.0	2.98	99
- 75.0	3.0	3.0	100
- 78.0	3.0	2.95	98
- 81.0	3.0	2.95	98
- 84.0	3.0	2.95	98
- 87.0	3.0	2.95	98
- 90.0	3.0	2.95	98
- 93.0	3.0	2.90	97
- 95.2	2.2	2.20	100
- 97.0	1.8	1.70	94
- 99.0	2.0	2.0	100
- 102.0	3.0	2.96	99
- 105.0	3.0	2.85	95
- 108.0	3.0	2.96	98
- 111.0	3.0	2.96	98

GEOPEKO LIMITED – KING ISLAND

ASSAY DATA

D.D.H. No. BH 400/10

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6245	62	63	1.0	1.0	< 0.01	<0.01		
46	63	64	"	"	< 0.01	<0.01		
47	64	65	"	"	0.02	<0.01		
48	65	66	"	"	0.03	<0.01		
49	66	67	"	"	<0.01	<0.01		
50	67	68	"	"	0.23	0.02		
51	68	69	"	"	0.22	0.01		
52	69	70	"	"	<0.01	<0.01		
53	70	71	"	"	0.10	0.01		
54	71	72	"	"	0.01	<0.01		
55	72	73	"	"	0.01	<0.01		
56	73	74	"	"	0.01	<0.01		
57	74	75	"	"	0.07	0.01		
58	75	76	"	"	0.02	<0.01		
59	76	77	"	"	<0.01	<0.01		
60	77	78	"	"	<0.01	<0.01		
61	78	79	"	"	0.30	0.01		
62	79	80	"	"	0.55	0.03		
63	80	81	"	"	0.66	0.03		
64	81	82	"	"	2.7	0.13		
65	82	83	"	"	0.91	0.05		
66	83	84	"	"	0.29	0.01		
67	84	85	"	"	< 0.01	<0.01		
68	85	86	"	"	<0.01	<0.01		
69	86	87	"	"	<0.01	<0.01		
70	87	88	"	"	0.12	<0.01		
71	88	89	"	"	<0.01	<0.01		
72	89	90	"	"	<0.01	<0.01		
73	90	91	"	"	<0.01	<0.01		
74	91	92	"	"	<0.01	<0.01		
75	92	93	"	"	0.01	<0.01		
76	93	94	"	"	<0.01	<0.01		
77	94	95	"	"	<0.01	<0.01		
78	95	96	"	"	0.01	<0.01		
79	96	97	"	"	0.60	0.02		
80	97	98	"	"	<0.01	<0.01		

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/10

0.00 - 27.90 m

MARBLE

Light grey fine grained marble with white calcite veinlets and small stringers of pyroxene.

The beginning of the unit (0.0 - 4.0 m) has irregular yellowish brown iron staining throughout. Several specks of scheelite are present at 0.4 m, and 4.0 m.

10.1m, 10.4m. Minor scheelite is present in pyroxene rich marble. Very minor ironstaining is present along fractures this section of core.

Pyroxene rich marble containing minor scheelite is also present at 27.3 - 27.6 m in pyroxene bearing marble. From 24.5m to 29.9m small fractures are filled with soft calcite.

At 7.0 m bedding is 55° to core axis.
27.0 m bedding is 57° to core axis.

Fractures / M = 5
Recovery = 99%

27.90 - 62.90 m

BIOTITE - PYROXENE HRONFELS

Purplish brown biotite hornfels and minor grey actinolite hornfels.

28.5 - 28.7 m. Broken core, with minor clay present and some fractures.

27.9 - 29.8 m. Angular rock fragments are present. These average 1cm but reach 7cm in width.

33.2 - 33.6 m.	Mildly broken core.
34.3 - 34.4 m.	Broken core.
37.8 - 38.0 m.	Broken core.

From S/M small rock and pyroxene fragments are present in the core. Pyroxene is considerably more abundant after 61.0 m.

60.7 - 61.0 m. Mildly broken core.

Fractures / M = 5
Recovery = 99%

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/10

62.90 - 76.50 m PYROXENE - GARNET HORNFELS

Fragments of calcite tend to be more rounded and of more even size than usual. They are often rimmed by grossular garnet and are set in a matrix of fine grained pyroxene, grossular and calcite.

Scheelite is very sparsely disseminated through the unit and only between 67.2 - 68.5 m does scheelite become possible ore grade.

66.3 - 67.0 m. Biotite hornfels.

Fractures / M = 7
Recovery = 99%

76.50 - 77.70 m PYROXENE BIOTITE HORNFELS

Pyroxene hornfels contains lenses and stringers of biotite hornfels, small rock fragments (average diameter 3mm) and small calcite fragments.

Fractures / M = 4
Recovery = 100%

77.70 - 83.40 m GARNET HORNFELS

Fine grained matrix of green pyroxene and brown grossular has large irregular shaped aggregates of dark green ? actinolite and calcite.

78.4 - 82.2 m. Medium grade, fine grained disseminated scheelite.

82.2 - 82.9 m. Pyroxene hornfels with minor grossular and small calcite fragments some of which are rimmed by grossular.

82.9 - 83.4 m. Garnet hornfels containing medium grade disseminated scheelite.

Fractures / M = 3
Recovery = 99%

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/10

83.40 - 97.30 m

BANDED FOOTWALL BEDS

Interbedded marble and pyroxene hornfels with biotite hornfels becoming more abundant towards the base of the unit. Grossular bands and lenses are common within marble, and where garnet - pyroxene calcite hornfels is present, there is usually fine grained disseminated scheelite (eg 87.3 m, 87.4 - 87.6 m, 93.3 m - 93.5 m and 96.0 - 96.5 m.

Yellowish brown ironstaining is common along fractures and in biotite hornfels. Short lengths of broken core and clay filled fractures are present at 84.6 m, 85.1 m, 88.1m, 88,6m, 88.8m, 94.2-94.5 m (major?).

Bedding is 65° to core axis.

Fractures / M = 4
Recovery = 99%

97.30 - 99.00 m

BIOTITE PYROXENE HORNFELS

Interbedded brown biotite hornfels and greyish green pyroxene hornfels.

Bedding is 70° to core axis.

Fractures / M = 10
Recovery = 99%

99.00 - 101.00 m

APLITE

Medium to coarse grained aplite with abundant finer grained biotite.

Fractures / M = 3
Recovery = 98%

101.00 - 105.70 m

BIOTITE-PYROXENE HORNFELS

Interbedded brown biotite hornfels and greyish green pyroxene hornfels. Bedding is 68° to core axis.

Fractures / M = 6
Recovery = 98%

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/10

105.70 - 111.00 m ADAMELLITE

Coarse grained adamellite containing large pink orthoclase crystals, with small quartz, plagioclase biotite and hornblende. There are short lengths which have concentrations of mafic minerals.

Fractures = 5
Recovery = 100%

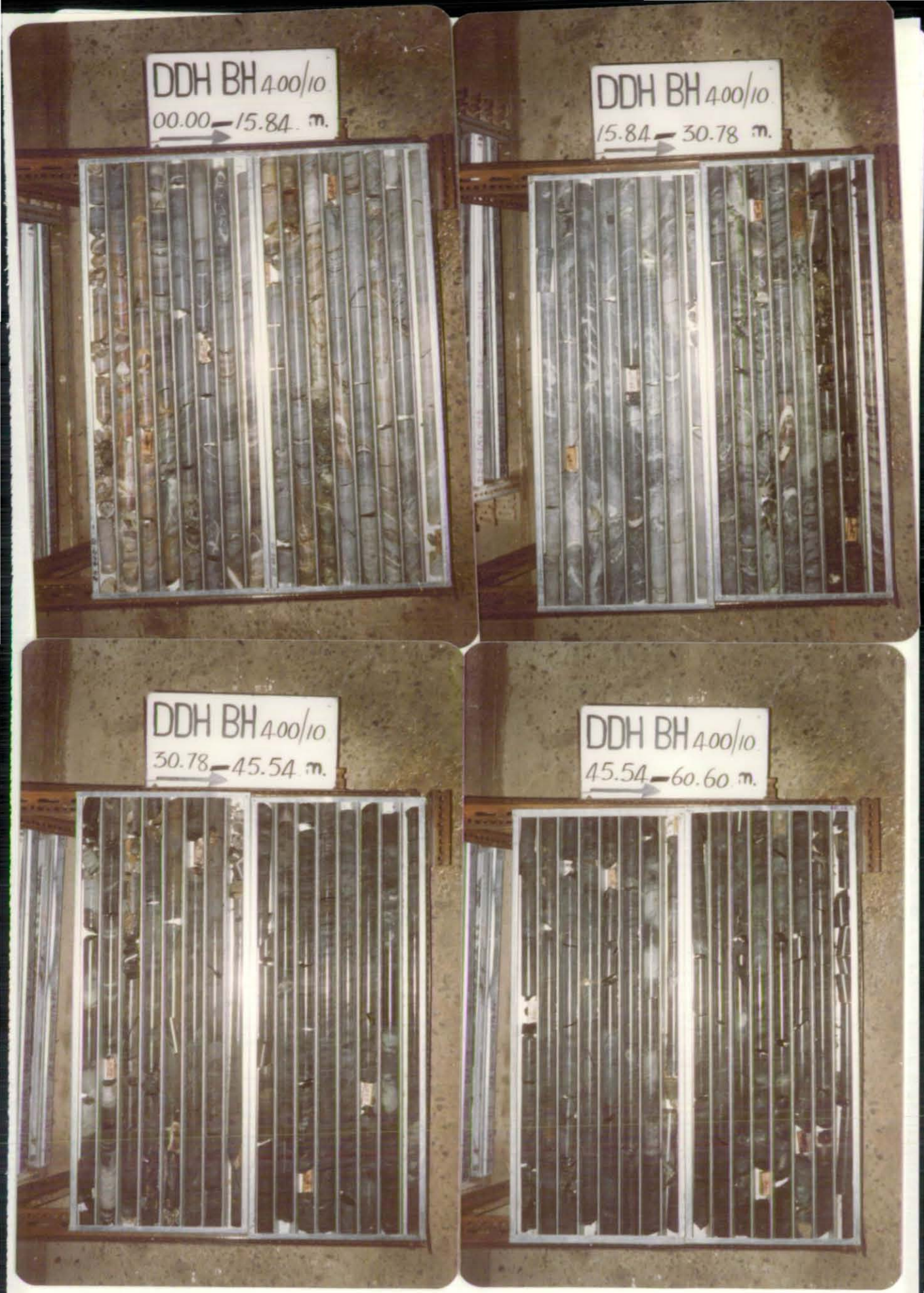
EOH 111.00 m.

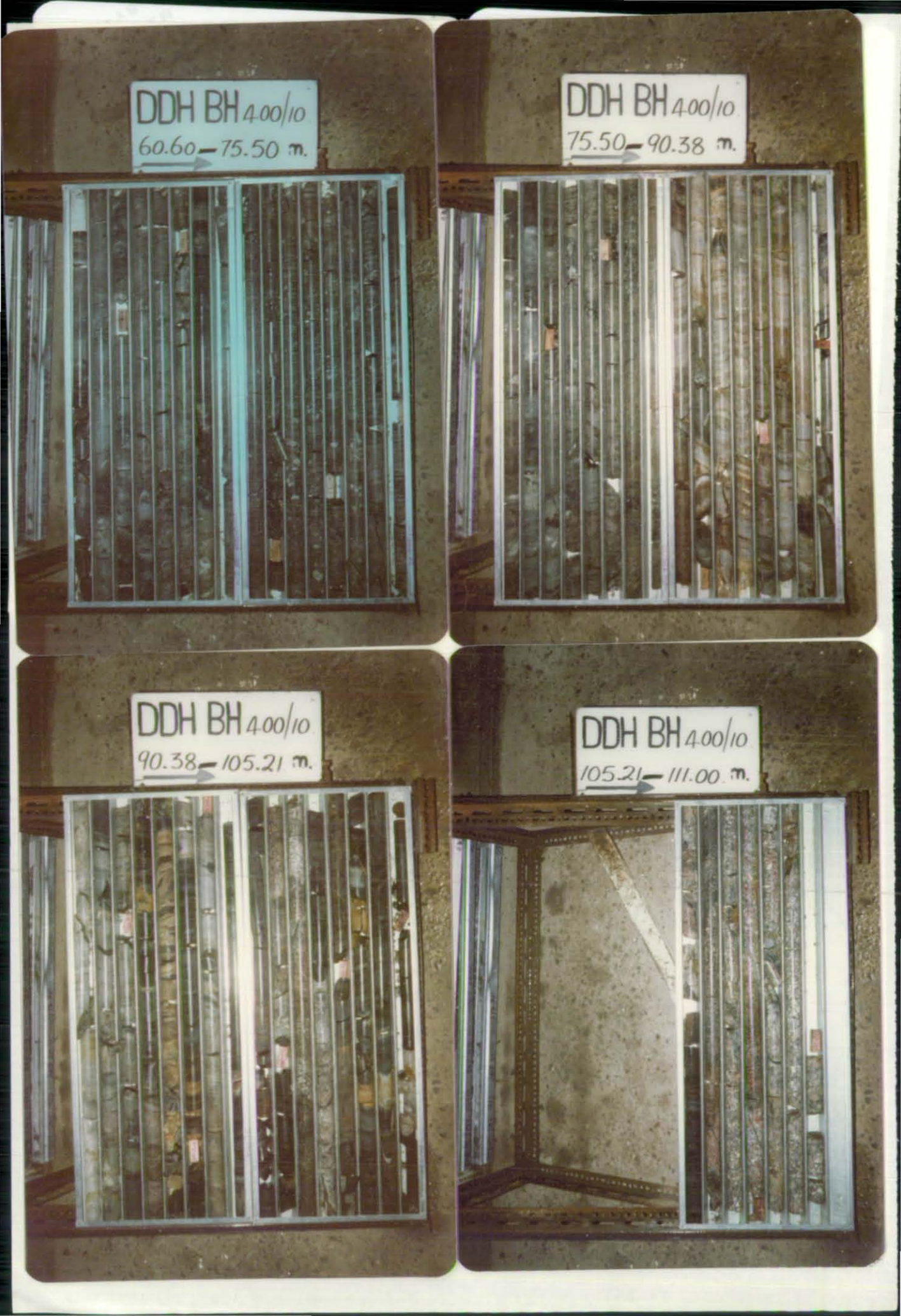
GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 400/10

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
6250	0.23	0.02	8084	0.31	<0.01	8085	0.355		8086	0.27		
6261	0.30	0.01	8087	0.42	<0.01	8088	0.355		8089	0.34		
6270	0.12	<0.01	8090	0.13	<0.01	8091	0.165		8092	0.13		
6279	0.60	0.02	8093	0.66	<0.01	8094	0.700		8095	0.62		


DDH BH 400/10
00.00 — 15.84 m.
DDH BH 400/10
15.84 — 30.78 m.
DDH BH 400/10
30.78 — 45.54 m.
DDH BH 400/10
45.54 — 60.60 m.


DDH BH 400/10
60.60 – 75.50 m.
DDH BH 400/10
75.50 – 90.38 m.
DDH BH 400/10
90.38 – 105.21 m.
DDH BH 400/10
105.21 – 111.00 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 400/9

PLANNING

Proposer: J. Clark — Depth: 90 m

Location: R40 Drive

Purpose of hole: To test C_1 West, C_2 West

Co-ordinates: 40305 E 10400 N

Inclination: -83° — Magnetic:

Bearing: 090 Grid — Target depth:

Target: E N

Approved by: — Date:

SURVEY

Survey Co-ords: E N

Survey bearing 090 Grid — Magnetic:

Surveyed in by: — Date:

Actual Co-ords: 40310.0 E 10401.8 N

R.L. of collar: 941.0 — Inclination of hole: -83°

Picked up by: B. Lennon — Date: 16-3-78

SUMMARY

Logged by: J. Clark

Results: 67 - 78 m, 11 m @ 1.54% WO_3, 0.07% Mo.

DRILLING

Driller/Contractor: A.D.D.

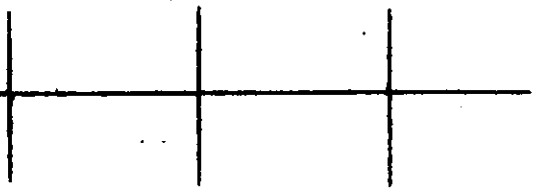
Date Commenced: 10-3-78 — Date Terminated: 29-3-78

Casing: Size : BQ

Depth : 1 m

Core: Size : 46TT

Depth : 110.0



Wedge Runoff:

Wedge Placed: — Depth:

Proposed by: — Approved by:

Reason:

Extension:

Final depth: 110.0 m

Reason for termination: Hole in unmineralized typical coarse grained adamellite.

Condition of hole on completion:

Casing:

Cemented:

Bore hole survey: Multishot to 110 m.

Water:

Comments on drilling conditions: Broken ground in aplite veins and adamellite.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 400/9

Survey method: Multishot Camera
Final depth: 110.0 m
Casing depth: 1.0 m

Depth surveyed to: 110.0 m
Date surveyed to: 28-3-78
Surveyed by: L. Denby
Checked by: A. Younger

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	E
3	082	054	6°45'	-83.25	2.98	0.05	0.35
18	080	052	6°45'	-83.25	17.88	0.32	2.10
42	078	050	6°45'	-83.25	41.72	0.88	4.85
63	079	051	4°45'	-85.25	62.63	1.28	6.66
78	076	048	4°45'	-85.25	77.58	1.57	7.86
93	074	046	4°45'	-85.25	92.53	1.91	9.05
110	074	046	5°00'	-85.00	109.46	2.29	10.48

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 400/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 4.0	4.0	3.7	93
4.0 - 6.0	2.0	1.95	98
6.0 - 9.0	3.0	2.95	98
9.0 - 12.0	3.0	2.98	99
12.0 - 15.0	3.0	2.98	99
15.0 - 18.0	3.0	2.95	98
18.0 - 21.0	3.0	2.95	98
21.0 - 26.0	5.0	2.98	99
26.0 - 29.0	3.0	2.98	99
29.0 - 32.0	3.0	2.98	99
32.0 - 34.7	2.7	2.70	100
34.7 - 37.0	2.3	2.24	97
37.0 - 39.2	2.9	2.90	100
39.2 - 42.0	2.8	2.80	100
42.0 - 45.0	3.0	2.94	98
45.0 - 46.6	1.6	1.50	94
46.6 - 49.0	2.4	2.4	100
49.0 - 52.0	3.0	2.92	97
52.0 - 54.1	2.1	2.1	100
54.1 - 57.0	2.9	2.80	97
57.0 - 60.0	3.0	2.90	97
60.0 - 64.0	4.0	3.98	99
64.0 - 67.0	3.0	2.92	97
67.0 - 71.0	4.0	3.95	99
71.0 - 74.0	3.0	2.98	99
74.0 - 77.0	3.0	2.97	99
77.0 - 79.0	2.0	1.98	99
79.0 - 80.0	1.0	1.0	100
80.0 - 83.0	3.0	2.90	97
83.0 - 87.0	3.0	2.95	98
87.0 - 90.0	3.0	2.92	97
90.0 - 93.0	3.0	2.80	93
93.0 - 96.0	3.0	2.90	97
96.0 - 98.0	2.0	1.93	97
98.0 - 101.0	3.0	2.92	97
101.0 - 104.0	3.0	2.96	98
104.0 - 107.0	3.0	3.0	100
107.0 - 110.0	3.0	2.95	98

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 400/9

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6141	61	62	1.0	1.0	<0.01	<0.01		
42	62	63	"	"	<0.01	<0.01		
43	63	64	"	"	0.01	<0.01		
44	64	65	"	"	0.01	<0.01		
45	65	66	"	"	0.01	<0.01		
46	66	67	"	"	0.01	<0.01		
47	67	68	"	"	0.46	0.02		
48	68	69	"	"	0.79	0.04		
49	69	70	"	"	1.65	0.08		
50	70	71	"	"	0.91	0.05		
51	71	72	"	"	0.18	0.02		
52	72	73	"	"	0.32	0.01		
53	73	74	"	"	1.24	0.06		
54	74	75	"	"	6.19	0.22		
55	75	76	"	"	1.91	0.13		
56	76	77	"	"	1.52	0.05		
57	77	78	"	"	1.77	0.04		
58	78	79	"	"	0.01	<0.01		
59	79	80	"	"	<0.01	<0.01		
60	80	81	"	"	<0.01	<0.01		
61	81	82	"	"	<0.01	<0.01		
62	82	83	"	"	<0.01	<0.01		
63	83	84	"	"	0.02	<0.01		
64	84	85	"	"	0.10	<0.01		
65	85	86	"	"	0.12	<0.01		
66	86	87	"	"	0.22	0.01		
67	87	88	"	"	0.06	0.03		
68	88	89	"	"	0.01	<0.01		
69	89	90	"	"	0.02	<0.01		
70	94	95	"	"	<0.01	<0.01		
71	95	96	"	"	0.14	<0.01		
72	96	97	"	"	0.23	<0.01		
73	97	98	"	"	0.54	0.03		
74	98	99	"	"	<0.01	<0.01		
75	99	100	"	"	<0.01	<0.01		
76	100	101	"	"	0.01	<0.01		
77	101	102	"	"	0.02	<0.01		
78	102	103	"	"	<0.01	0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/9

0.0 - 27.50 m **Marble**

Grey and white fine grained marble with occasional white calcite veins through out.

8.2 - 11.1 m. Fine grained pyroxene - calcite hornfels with very minor fine grained disseminated scheelite parts of this section are badly broken and have clay infillings along fractures.

11d - 15.0 m. Small bands of grossular are present in marble, some of which is coloured red.

16.0 - 18.0 m. Brecciated grey marble with light green pyroxene has been cemented by white calcite.

The remainder of the unit has a faint brecciated texture. From 23.2 m some red marble is present with minor epidote.

26.4 - 27.5 m. Marble with minor pyroxene has abundant iron oxide (limomite) stainings throughout. A thin vein of secondary calcite at 26.4 m may represent a fault zone.

Fractures / m = 4.

27.50 - 62.70 m **Biotite ± Pyroxene Hornfels**

Purplish brown biotite hornfels has lenses of light green pyroxene hornfels small rock and calcite fragments are occasionally present.

Zones of broken core are present at 29.1 - 29.2 m, 39.0 - 39.2 m, 52.0 - 52.1 m.

Pyroxene becomes slightly more abundant towards the end of the unit, but there is no increase in the amount of rock fragments present.

Depth	Bedding
31.9	80°
41.2	65°
55.7	55°

Fractures / m = 6 (au)

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/9

62.70 - 71.10 m Pyroxene - Garnet Hornfels

Fine grained pyroxene, grossular and calcite in which there are occasional small calcite fragments, and small irregular areas of coarse grained calcite/chlorite. The typical pgh texture is indistinct at the start of the unit and is almost completely obliterated by the end.

68.0 - 68.2 m. Quartz vein./Minor fine grained disseminated scheelite is present from 62.7 - 68.3 m. There is an abrupt change at 68.3 m to thickly disseminated scheelite and this continues to 71.10 m.

Fractures / m = 6

71.10 - 71.40 m Biotite Hornfels.

Purplish brown biotite hornfels. The boundaries of this unit are at opposite directions to the core axis.

71.40 - 72.95 m Pyroxene - Plagioclase - Quartz Rock.

The overall colour of the rock is light green. Slightly rounded white plagioclase, light green pyroxene and dark green chlorite are present in colourless quartz. The rock is barren of scheelite except for a short length at 72.7 m.

Fractures / m = 4

72.95 - 78.10 m Pyroxene - Quartz Rock.

This rock looks very similar to the unit above. Light green pyroxene (often well formed) is present in colourless quartz. Very fine grained andradite is locally concentrated (to the exclusion of quartz) with calcite and pyroxene. Minor white plagioclase is present with quartz.

Abundant scheelite is present as fine grained disseminated crystals, although there are short intervals from 77.2 - 78.1 m that are barren.

Fractures / m = 3.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/9

78.10 - 79.70 m "Aplite"

Coarse grained white to light green plagioclase, with lesser amounts of colourless quartz. The mafic mineral is a fine grained dark green amphibde. Most of the unit has dark red iron oxide skarning, and some fractures have thin clay infillings. Core is broken.

Fractures / m = 20

79.70 - 83.00 m Quartz - Pyroxene Rock

Clear quartz has abundant crystals of light green pyroxene (some of which are well formed) which range in size from 2 mm to 5 mm in diameter. The unit is barren of scheelite mineralization.

Fractures / m = 4

83.00 - 93.60 m Adamellite

White plagioclase and very light pink orthoclase, both with slightly indistinct margins, average about 0.8 mm in diameter. White to colourless quartz and fine grained pyroxene (average. 0.3 mm diameter). Several small crystals of ?andradite are present in the unit. Medium to coarse grained scheelite is scattered through the unit (frequency approximately 3 crystals / metre).

84.0 - 84.2 m. Minor ironoxide staining associated with broken core.

90.6 - 93.0 m. Very broken core which in places has disintergrated to sand. Several fractures have clay infillings. Brown and red ironoxide staining is present throughout.

Fractures / m aver. = 4

93.60 - 98.30 m Calcite - Muscovite - Quartz Rock

Small fragments of calcite (up to 1 cm in diameter, some of which have fine grossular rims, are distinctive in clear quartz and abundant fine grained muscovite. Epidote is irregularly distributed and fine grained dark green chlorite is also present.

Medium sized grains of scheelite are irregularly distributed (averaging 6 grains / metre).

Fractures / m = 3.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/9

98.30 - 101.90 m "Adamellite"

This appears to be a gradational unit. Feldspars and quartz are the major minerals present with lesser amounts of calcite, pyroxene, chlorite and ?garnet. Scheelite is present as individual irregularly distributed larger crystals, and as thickly disseminated fine grains over short lengths.

Fractures / m = 5

101.90 - 110.0 m Adamellite

This appears to be the typical Grassy Adamellite with large pink orthoclase crystals, smaller plagioclase and quartz, and mafic minerals being biotite and hornblende.

Fractures / m = 3.

EOH 110.0 m.

GEOLOGY - KING ISLAND SCHEELITE

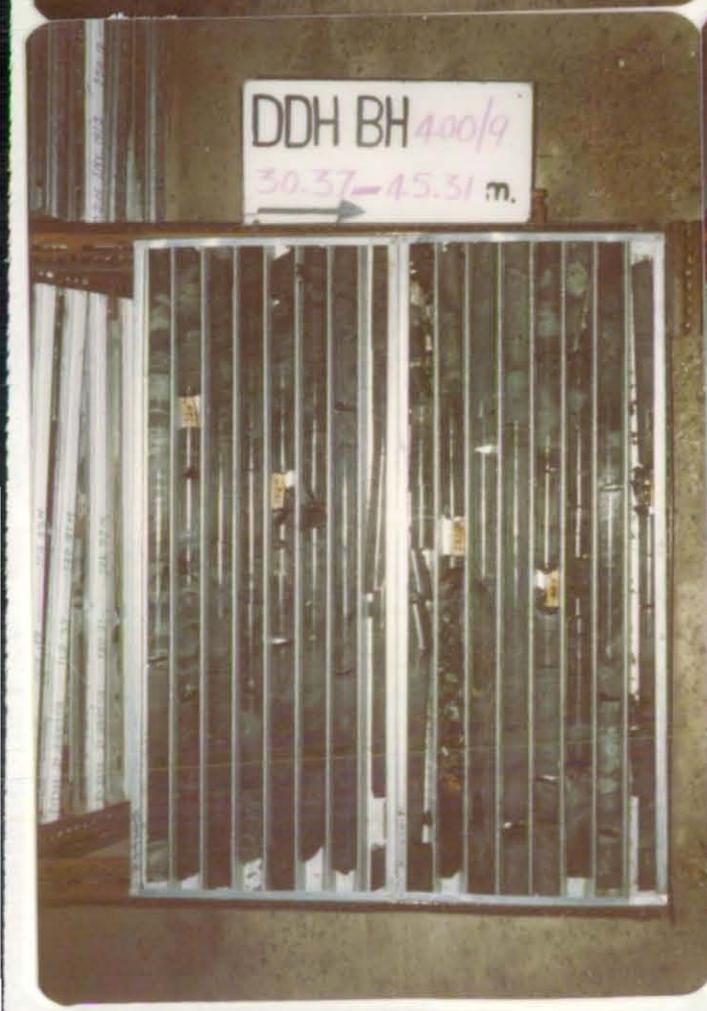
CHECK ASSAY DATA

D.D.H. No. BH 400/9

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
6147	0.46	0.02	8060	0.49	<0.01	8061	0.490		8062	0.41		
6166	0.22	0.01	8063	0.93	0.01	8064	0.340		8065	0.34		
6172	0.23	<0.01	8066	0.84	<0.01	8067	0.275		8068	0.23		


DDH BH 400/9
00.00 – 15.37 m.


DDH BH 400/9
15.37 – 30.37 m.


DDH BH 400/9
30.37 – 45.31 m.


DDH BH 400/9
45.31 – 60.35 m.


DDH BH 400/9
60.35 – 75.35 m.


DDH BH 400/9
75.35 – 90.00 m.


DDH BH 400/9
90.00 – 105.21 m.


DDH BH 400/9
105.21 – 110.00 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 400/8

PLANNING

Proposer: G. Brown — Depth: 110 m

Location: Q 42

Purpose of hole: Test C_1 C_2 + D lens

Co-ordinates: 40 393 E 10 400 N
Inclination: -79°
Bearing 090 Grid — Magnetic:
Target: E — Target Depth:
Approved by: M.C.R. — N — Date: 1-7-77

SURVEY

Survey Co-ords: E — N
Survey bearing: 80° 46' Grid — Magnetic:
Surveyed in by: — Date:
Actual Co-ords: 40 393.65 E 10 400.36 N
R.L. of Collar: 951.41 — Inclination of Hole: -78° 24'
Picked up by: A. Grigulis — Date: 10-11-77

SUMMARY

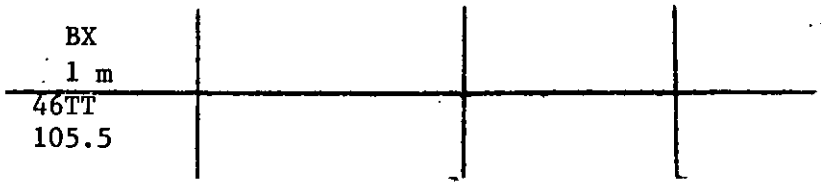
Logged by: M. Danielson
Results: 0 - 2 m 2 m @ 0.91% WO_3 33 - 38 m 5 m @ 0.70% WO_3
63 - 65 m 2 m @ 0.39% WO_3 81 - 83 m 2m @ 1.39% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 24-10-77 — Date terminated: 3-11-77

Casing: Size: BX
Depth: 1 m
Core: Size: 46TT
Depth: 105.5



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

Extension: Nil

Reason for termination: Hole in very poor ground Fault Zone (?)

Condition of hole on completion: — Final depth: 105.5
Casing: Nil
Cemented: No

Bore hole survey: Multishot to 102.0 m

Water: Nil

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 400/8

Survey method: Multishot Camera

Final depth : 105.5

Casing depth : 1 m

Depth surveyed to: 102.0

Date surveyed: 3-11-77

Surveyed by : L. Denby

Checked by : M. Danielson

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
30	082	054	10	-80	29.54	3.06	4.20
60	082	054	9.5	-80.5	59.11	6.05	8.24
90	078	050	9	-81	88.75	8.94	11.94
105.5	080	052	8.75	-81.25	104.~~40~~07	10.40	13.80

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No.B 400/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.9	2.9	2.8	97
3.9	1.0	1.0	100
4.7	0.8	0.8	100
8.2	3.5	3.5	100
9.5	1.3	1.4	108
12.5	3.0	3.0	100
15.0	2.5	2.4	96
17.0	2.0	1.95	98
20.0	3.0	2.9	97
23.5	3.5	3.6	103
25.7	2.2	2.2	100
28.6	2.9	2.9	100
31.6	3.0	2.9	97
34.0	3.0	~~3.0~~ 2.4	100
37.0	3.0	2.9	97
40.0	3.0	3.0	100
43.0	3.0	3.0	100
46.0	3.0	3.0	100
49.0	3.0	3.0	100
57.8	8.8	8.8	100
59.1	1.3	1.3	100
62.0	2.9	3.1	107
65.2	3.2	3.0	94
68.0	2.8	3.0	107
71.3	3.3	3.1	94
74.3	3.0	3.0	100
77.3	3.0	3.0	100
80.3	3.0	3.0	100
80.9	0.6	0.8	133
83.6	2.7	2.7	100
86.0	2.4	2.4	100
87.7	1.7	1.7	100
87.9	0.2	0.15	75
88.6	0.7	0.6	86
91.0	2.4	2.2	92
93.8	2.8	2.5	89
96.6	2.8	2.8	100
99.6	3.0	3.0	100
102.6	3.0	3.0	100
103.0	0.4	0.5	125
104.0	1.0	0.8	80
104.8	0.8	0.4	50
105.5	0.7	0.5	71
EOH			

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 400/8

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
B 5530	0	1	1.0	0.9	1.56	0.08	2 m	
1	1	2	"	1.0	0.27	0.01	@	
2	2	3	"	"	<0.01	<0.01	0.91% WO_3	
3	3	4	"	"	<0.01	<0.01		
4	4	5	"	"	<0.01	<0.01		
5	5	6	"	"	0.52	0.03		
6	6	7	"	"	0.25	0.01		
B 5537	7	8	"	"	0.21	0.01		
B 5538	11	12	1.0	1.0	0.46	0.02		
9	12	13	"	"	<0.01	<0.01		
40	13	14	"	"	0.17	0.01		
1	14	15	"	"	0.20	<0.01		
2	15	16	"	"	0.26	0.01		
B 5543	16	17	"	"	0.18	0.02		
B 5544	22	23	1.0	1.0	0.21	0.01		
5	23	24	"	"	0.19	<0.01		
B 5546	27	28	1.0	1.0	0.04	<0.01		
7	28	29	"	"	0.16	0.01		
8	29	30	"	"	<0.01	<0.01		
9	30	31	"	"	0.54	0.04		
50	31	32	"	"	0.08	<0.01		
1	32	33	"	"	<0.01	<0.01		
2	33	34	"	"	1.12	0.06		
3	34	35	"	"	0.48	0.02	5 m	
4	35	36	"	"	0.37	0.02	@	
5	36	37	"	"	0.62	0.04	0.70% WO_3	
6	37	38	"	"	0.92	0.04		
7	38	39	"	"	0.06	<0.01		
B 5558	39	40	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 400/8

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
B 5425	62	63	1.0	1.0	<0.01	<0.01		
6	63	64	"	"	0.48	0.01	2 m @	
7	64	65	"	"	0.30	0.01	0.39% WO_3	
5428	65	66	"	"	0.09	0.01		
B 5429	80	81	1.0	1.0	<0.01	<0.01		
30	81	82	"	"	1.13	0.03	2 m	
1	82	83	"	"	1.66	0.09	@ 1.39% WO_3	
B 5432	83	84	"	"	0.21	0.01		
B 5433	93	94	1.0	1.0	<0.01	<0.01		
4	94	95	"	"	0.13	<0.01		
5	95	96	"	"	0.17	<0.01		
6	96	97	"	"	<0.01	<0.01		
B 5437	97	98	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/8

0 - 8.0 — Garnet Pyroxene Hornfels

Weakly disseminated scheelite throughout a fine grained pyroxene andradite skarn. Generally massive with no apparent bedding.

8.0 - 10.8 — Biotite Hornfels

Barren grey bh, minor pyroxene. Bedding 9 m 50° L.A.O.C.

10.8 - 16.8 — Banded Garnet Pyroxene Hornfels

Banded pyroxene andradite skarn containing minor disseminated scheelite.
Bedding 19 m 60° L.A.O.C.

16.8 - 27.9 — Unmineralized Banded Footwall Beds

Barren interbedded bh, ch and minor grossular and pyroxene.

Minor disseminiated scheelite 22.8 - 23.5 m

27.9 - 38.7 — Banded Garnet Pyroxene Hornfels

Weakly mineralized, strongly bedded pyroxene andradite skarn. Typical mineralized banded footwall beds.

38.7 - 43.0 — Unmineralized Banded Footwall Beds

Barren ph, mostly white ch and minor black bh.

43.0 - 59.8 — Biotite Pyroxene Hornfels

Barren interbedded grey bh and pale green ph.
Bedding 44 m 70° L.A.O.C.
48 m 55° L.A.O.C.
Fold axis at 48.8 metres
Bedding sub parallel to core axis between 9 - 53 m.
57 metres 40° L.A.O.C.

Fault 59.8 - 60.0 pug zone N° 2 FAULT

60.0 - 61.0 — Biotite hornfels

Barren grey bh. Some oxidation due to proximity of fault.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/8

61.0 - 70.4 Podded Biotite Pyroxene Hornfels

Dominantly barren black biotite hornfels groundmass containing white carbonate pods rimmed by green ph and brown grossulat garnet.

Between 63.0 - 66.0 metres unit is more pyroxene rich in groundmass, contains minor disseminated scheelite and resembles normal pgh.

70.4 - 80.8 Biotite Pyroxene Hornfels

Thinly bedded barren grey bh and pale green ph
Bedding 77 metres 65° L.A.O.C.

80.8 - 83.1 Garnet Pyroxene Hornfels

Fine to medium grained andradite pyroxene skarn containing moderate disseminated scheelite.

83.1 - 94.4 Marble

Barren grey ch Bedding strongly developed averaging 70° to L.A.O.C. There is some lost core in this section and there is a Probable Fault 88.5 - 88.7 which is a pug and rubble zone.

94.4 - 96.6 Banded Garnet Pyroxene Hornfels

Moderate disseminated scheelite in a well bedded garnet pyroxene skarn.

96.6 - 105.5 Marble

Dominantly a barren grey marble but interbedded bh and ph between 99.1 and 101.3 metres.

Below 103 metre core is rubbly and severely leached and hole probably ended in a fault zone bedding
104 metres 70° L.A.O.C.

105.5 metres EOH.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 400/8

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
5530	1.56	0.08	7458	1.10	< 0.01	7459	1.59		7460	1:28		
5540	0.17	0.01	7461	0.22	< 0.01	7462	0.215		7463	0.19		
5549	0.54	0.04	7464	0.57	< 0.01	7465	0.510		7466	0.39		
55561	0.92	0.04	7467	0.97	< 0.01	7468	1.19		7469	1.01		


DDH BH 400/8
58.22 – 72.43 m.


DDH BH 400/8
72.43 – 86.34 m.


DDH BH 400/8
86.34 – 100.89 m.


DDH BH 400/8
100.89 – 105.50m.


DDH BH 400/8
00.00 – 14.34 m.


DDH BH 400/8
14.34 – 28.60 m.


DDH BH 400/8
28.60 – 43.52 m.


DDH BH 400/8
43.52 – 58.22 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. Bold Head 400/7

PLANNING

Proposer: S.G. Brown. Depth: 110m

Location: N53 drive

Purpose of Hole: To test B lens East and C_1 and C_2 lens.

Co-ordinates: 10380 E 10402 N
Inclination: -67°
Bearing 270 Grid Magnetic:
Target: Target Depth:
E N
Approved by: M.C. Rogers Date: 27/9/76

SURVEY

Survey Co-ords: 40 378.96 E 10401.43 N
Survey bearing: 273° 37' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: E N
R.L. of Collar: 957.63 Inclination of Hole: -64° 23'
Picked up by: A. Grigulis Date: 10/11/76

SUMMARY

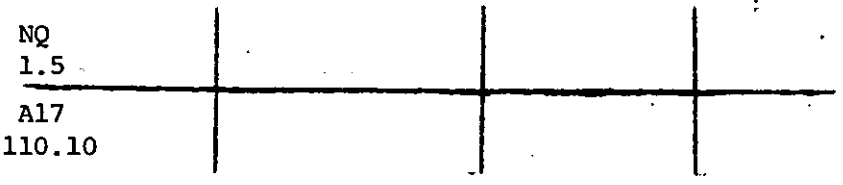
Logged by: R. van den Bogaart
Results: 12.0-25.0m 13m @ 0.80% WO_3
78.0- 81.0m 3m @ 1.88% WO_3

DRILLING

Driller/Contractor: A.D.D

Date commenced: 28/10/76 Date terminated: 8/11/76

Casing: Size: NQ
Depth: 1.5
Core: Size: A17
Depth: 110.10



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

Extension: Nil

Reason for termination: Entered pgh beyond mineralised zone

Condition of hole on completion: Final depth: 110.10m
Casing: pulled
Cemented: NO

Bore hole survey: Multishot camera

Water: Minor

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. Bold Head 400/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
B/H 0.00-3.6	3.6	2.72	76
6.6	3.0	2.98	99
9.6	3.0	2.97	99
11.7	2.10	2.14	102
14.2	2.50	2.51	100
17.2	3.0	2.93	98
20.2	3.0	3.00	100
23.2	3.0	3.02	101
24.9	1.70	1.64	96
27.9	3.0	3.03	101
30.9	3.0	2.95	98
33.9	3.0	2.96	99
36.9	3.0	3.00	100
39.9	3.0	3.02	101
42.9	3.0	2.92	97
45.9	3.0	2.98	99
47.7	1.80	1.79	99
50.7	3.0	3.04	101
53.7	3.0	3.01	100
56.7	3.0	3.06	102
59.7	3.0	3.02	101
62.7	3.0	2.96	99
65.7	3.0	2.97	99
67.5	1.80	1.76	98
70.5	3.0	2.99	100
73.5	3.0	2.96	99
76.5	3.0	2.94	98
79.5	3.0	3.00	100
81.3	1.80	1.77	98
84.3	3.0	3.01	100
87.3	3.0	3.00	100
90.3	3.0	3.02	101
93.3	3.0	2.93	98
96.3	3.0	2.97	99
98.1	1.80	1.84	102
101.3	3.20	3.00	94
104.3	3.00	3.03	101
107.1	2.80	2.96	106
110.1	3.0	3.02	101
E.O.H			

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 400/7

Survey method: Multishot camera
Final depth : 110.10m
Casing depth : 1.5m

Depth surveyed to: 108m
Date surveyed: 8/11/76
Surveyed by : R. Bogaart
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
6	264° 00'	236° oo'	24° 00'	-66° 00'	5.48	1.36	2.02
15	273° 00'	245° 00'	24° 00'	-66° 00'	13.70	2.91	5.34
27	274° 00'	246° 00'	23° 30'	-66° 30'	24.69	4.81	9.76
42	275° 00'	247° 00'	23° 15'	-66° 45'	38.47	7.13	15.21
57	277° 00'	249° 00'	22° 45'	-67° 15'	52.30	9.21	20.62
72	281° 00'	253° 00'	22° 00'	-68° 00'	66.21	10.85	25.99
87	281° 00'	253° 00'	21° 45'	-68° 15'	80.13	12.49	31.35
102	281° 00'	253° 00'	22° 00'	-68° 00'	94.04	14.14	36.72
108	282° 00'	254° 00'	21° 45'	-68° 15'	99.61	14.75	38.85

REMARKS:

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 400/7

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH4075	9.0	10.0	1.0	1.0	0.19	<0.01		
6	10.0	11.0	1.0	1.0	<0.01	<0.01		
7	11.0	12.0	1.0	1.0	0.11	<0.01		
8	12.0	13.0	1.0	1.0	0.73	0.03		
9	13.0	14.0	1.0	1.0	0.29	<0.01		
4080	14.0	15.0	1.0	1.0	0.70	0.02	12.0 - 25.0m	
1	15.0	16.0	1.0	1.0	0.05	<0.01		
2	16.0	17.0	1.0	1.0	1.20	0.05	13m @ .80% WO_3	
3	17.0	18.0	1.0	1.0	1.44	0.06		
4	18.0	19.0	1.0	1.0	0.43	0.02		
5	19.0	20.0	1.0	1.0	0.38	0.01		
6	20.0	21.0	1.0	1.0	2.07	0.12		
7	21.0	22.0	1.0	1.0	0.81	0.05		
8	22.0	23.0	1.0	1.0	1.22	0.07		
9	23.0	24.0	1.0	1.0	0.75	0.03		
4090	24.0	25.0	1.0	1.0	0.38	0.02		
1	25.0	26.0	1.0	1.0	0.04	<0.01		
2	29.0	30.0	1.0	1.0	<0.01	<0.01		
3	30.0	31.0	1.0	1.0	0.03	<0.01		
4	31.0	32.0	1.0	1.0	0.17	0.01		
5	32.0	33.0	1.0	1.0	<0.01	<0.01		
6	36.0	37.0	1.0	1.0m	0.01	<0.01		
7	37.0	38.0	1.0	1.0	0.07	<0.01		
8	38.0	39.0	1.0	1.0	0.03	<0.01		
9	39.0	40.0	1.0	1.0	0.06	<0.01		
4100	40.0	41.0	1.0	1.0	0.25	0.02		
1	41.0	42.0	1.0	1.0	<0.01	<0.01		
4114	78.0	79.0	1.0	1.0	0.39	0.01		
5	79.0	80.0	1.0	1.0	3.22	0.19	78.0-81.0	
6	80.0	81.0	1.0	1.0	2.03	0.11	3m @ 1.88% WO_3	
7	81.0	82.0	1.0	1.0	0.21	0.01		
8	82.0	83.0	1.0	1.0	0.29	0.01		
9	83.0	84.0	1.0	1.0	0.12	0.01		
4120	84.0	85.0	1.0	1.0	0.21	0.01		
1	85.0	86.0	1.0	1.0	0.15	0.01		
2	86.0	87.0	1.0	1.0	0.29	0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - Bold Head Mine

ASSAY DATA

D.D.H. No. BH 400/7

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
3	87.0	88.0	1.0	1.0	0.18	0.01		
4	88.0	89.0	1.0	1.0	0.03	< 0.01		
5	89.0	90.0	1.0	1.0	0.01	< 0.01		
6	90.0	91.0	1.0	1.0	0.13	0.01		
7	91.0	92.0	1.0	1.0	0.01	< 0.01		
8	92.0	93.0	1.0	1.0	0.01	< 0.01		
9	93.0	94.0	1.0	1.0	0.01	< 0.01		
4130	94.0	95.0	1.0	1.0	0.01	< 0.01		
1	95.0	96.0	1.0	1.0	0.01	< 0.01		
2	96.0	97.0	1.0	1.0	0.07	< 0.01		
3	97.0	98.0	1.0	1.0	0.03	< 0.01		
4	98.0	99.0	1.0	1.0	0.01	< 0.01		
5	102.0	103.0	1.0	1.0	0.01	< 0.01		
6	103.0	104.0	1.0	1.0	0.03	< 0.01		
7	104.0	105.0	1.0	1.0	0.88	0.03		
4138	105.0	106.0	1.0	1.0	0.01	< 0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - Bold Head

ASSAY DATA

D.D.H. No. Bold Head 400/7

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
1	25.0	26.0	1.0	1.0	0.04	< 0.01		
2	29.0	30.0	1.0	1.0	<0.01	< 0.01		
3	30.0	31.0	1.0	1.0	0.03	< 0.01		
4	31.0	32.0	1.0	1.0	0.17	0.01		
5	32.0	33.0	1.0	1.0	0.01	< 0.01		
6	36.0	37.0	1.0	1.0	0.01	< 0.01		
7	37.0	38.0	1.0	1.0	0.07	< 0.01		
8	38.0	39.0	1.0	1.0	0.03	< 0.01		
9	39.0	40.0	1.0	1.0	0.06	< 0.01		
4110	40.0	41.0	1.0	1.0	0.25	0.02		
1	41.0	42.0	1.0	1.0	0.01	< 0.01		
4114	78.0	79.0	1.0	1.0	0.39	0.01		
5	79.0	80.0	1.0	1.0	3.22	0.19	78-81.0	
6	80.0	81.0	1.0	1.0	2.03	0.11	3m @ 1.88% WO_3	
7	81.0	82.0	1.0	1.0	0.21	0.01		
8	82.0	83.0	1.0	1.0	0.29	0.01		
9	83.0	84.0	1.0	1.0	0.12	0.01		
4120	84.0	85.0	1.0	1.0	0.21	0.01		
1	85.0	86.0	1.0	1.0	0.15	0.01		
2	86.0	87.0	1.0	1.0	0.29	0.01		
3	87.0	88.0	1.0	1.0	0.18	0.01		
4	88.0	89.0	1.0	1.0	0.03	< 0.01		
5	89.0	90.0	1.0	1.0	< 0.01	< 0.01		
6	90.0	91.0m	1.0	1.0	0.13	0.01		
7	91.0	92.0	1.0	1.0	< 0.01	< 0.01		
8	92.0	93.0	1.0	1.0	< 0.01	< 0.01		
9	93.0	94.0	1.0	1.0	< 0.01	< 0.01		
4130	94.0	95.0	1.0	1.0	< 0.01	< 0.01		
1	95.0	96.0	1.0	1.0	< 0.01	< 0.01		
2	96.0	97.0	1.0	1.0	0.07	< 0.01		
3	97.0	98.0	1.0	1.0	0.03	< 0.01		
4	98.0	99.0	1.0	1.0	0.01	< 0.01		
5	102.0	103.0	1.0	1.0	0.01	< 0.01		
6	103.0	104.0	1.0	1.0	0.03	<00.01		
7	104.0	105.0	1.0	1.0	0.88	0.03		
4138	105.0	106.0	1.0	1.0	0.01	< 0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Bold Head 400/7

0.00 - 10.85	MARBLE

A greyish-white unit of recrystallised marble with remnant bedding. The unit contains some minor bands of biotite hornfels. No scheelite mineralisation occurs in this unit.
Remnant bedding is at:
- 35° LCA @ 1.40m
- 37° LCA @ 3.26m
- 25° LCA @ 6.96m
- 36° LCA @ 10.02m

10.85 - 23.98	PYROXENE GARNET SKARN (BF1 lens)

A brownish-green unit of pyroxene-garnet skarn with minor bands of biotite and pyroxene hornfels. The unit consists essentially of pyroxene, andradite and calcite with minor pyrite, quartz molybdenite, grossularite and actinolite. The unit contains fine to medium grained scheelite throughout and is expected to reach medium to high grade ore.
Bedding is at:
- 41° LCA @ 14.0m
- 26° LCA @ 19.30m

The unit is terminated against No2 Fault @ 23.98m.

23.98 - 25.45	PYROXENE GARNET SKARN (B LENS EAST)

A small unit of pyroxene garnet skarn adjacent No.2 Fault. The unit is disturbed and contain numerous fractures. The fracture planes contain slickenslides. The unit has been moderately leached.
Fine grained scheelite occurs throughout and is expected to reach ore grade.

25.45 - 30.26	MARBLE:-

A greyish-white bedded unit of marble with minor bands of pyroxene and garnet. The unit contains numerous minor fractures infilled with carbonate and chlorite. The unit contains only minor grains of scheelite associated with the pyroxene and garnet rich bands.
Bedding is at:
- 52° LCA @ 26.0m
- 53° LCA @ 28.78m
- 51° LCA @ 29.52m

A major fracture containing carbonate and chlorite 34° LCA occurs at 25.44m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Bold Head 400/7

30.26 - 32.08 MINERALISED MARBLE

A greyish-green recrystallised unit of marble containing abundant pyroxene and garnet. The unit contains fine to medium grained scheelite which is expected to reach ore grade. Some remnant bedding is noted, and is at:
≈48° LCA @ 30.73m
≈46° LCA @ 31.0m

32.08 - 37.53 MARBLE:

As above; i.e; a well bedded greyish unit of marble with minor bands of pyroxene and garnet. The unit contains only minor grains of scheelite associated with the pyroxene and garnet rich bands. Core is incompetent between 34.85 - 35.0m due to puggy bands of calcite or wollastonite?
Bedding is at:
≈57° LCA @ 33.60m
≈50° LCA @ 34.57m
≈67° LCA @ 36.70m
A major fracture or possible fault in filled with calcite 23° LCA, occurs at 36.90m.

37.53 - 40.48 MINERALISED MARBLE

A small unit of greyish-green marble containing abundant pyroxene and garnet. The unit contains fine to medium grained scheelite and may reach ore grade.
Remnant Bedding is at:
≈42° LCA @ 39.60m

40.48 - 43.85 MARBLE

A greyish-white bedded unit of marble with minor patches of pyroxene and garnet. Calcite rich bands occur at 40.76, 41.25, 41.52 and 51.54m. Minor grains of scheelite are associated with the pyroxene and garnet rich areas.
Bedding is at:
≈58° LCA @ 40.53m
≈61° LCA @ 41.67m
Major calcite filled fractures or minor faults occur at 42.22m (27° LCA)
42.40m (72° LCA) and
43.26m (26° LCA)

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Bold Head 400/7

43.85 - 78.27 BIOTITE PYROXENE HORNFELS

A disturbed brownish-green unit of banded biotite pyroxene hornfels containing some angular to sub-angular pods of pyroxene or calcite. The initial 5 metres of this unit is very disturbed and the banding has been somewhat distrupted.

The angular pods are pyroxene rich; the subangular pods are calcite rich and are rimmed by epidote, pyroxene and grossularite. Some of the biotite rich bands show a spotted texture possibly due to growth of andalusite or similar minerals. A small aplite dyke 2cm thick and $\approx 60^{\circ}$ LCA occurs at 75.7cm

Minor faults $\approx 56^{\circ}$ LCA and $\approx 51^{\circ}$ LCA occur at 73.30m and 75.53m respectively.

Banding is at:

$\approx 66^{\circ}$ LCA @ 44.36m
$\approx 54^{\circ}$ LCA @ 52.45m
$\approx 56^{\circ}$ LCA @ 57.10m
$\approx 47^{\circ}$ LCA @ 74.84m

78.27 - 97.88 PODDED PYROXENE GARNET HORNFELS

A brownish-green unit of pyroxene garnet hornfels containing numerous angular and sub-angular pods. The pods are mainly of calcite rich, rimmed by pyroxene, grossularite and epidote. Some pods are rich in calcite and actinolite. Between 92.90 - 93.58 numerous angular pyrrohotite rich pods occur in a pyroxene rich groundmass. The unit has an erratic scheelite content and is only expected to reach good ore grade between 78.83 - 81.0m. Some scheelite mineralisation may reach ore graded outside that mentioned above, but is only expected to be low grade or sub grade.

The unit is terminated by a fault represented by a fault represented by a 6cm calcite filled fault plane $\approx 20^{\circ}$ LCA.

Calcite filled fractures occur at 89.10m, 91.25m, and 97.17m.

97.88 - 103.05 MARBLE

A very disturbed greyish-white recrystallised marble containing numerous angular and sub angular pod of marble in a marble groundmass. The unit contains some minor spots of grossularite and epidote. The unit is barren of scheelite mineralisation.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Bold Head 400/7

103.05 - 104.96 PYROXENE GARNET HORNFELS

A small unit of brownish greenish pyroxene garnet hornfels. The unit contains some biotite and pyroxene rich bands and grades into the banded footwall beds described below. This unit contains fine to medium grained scheelite throughout and is expected to reach ore grade.
Bedding is at $\approx 52^{\circ}$ LCA @ 104.75m

104.96 - 110.10 EOH BANDED FOOTWALL BEDS:

A unit consisting of alternate bands of biotite pyroxene, grossularite and calcite hornfels. Calcite hornfels dominates. Some of the calcite bands are rich in wollastonite. Only minor specks of scheelite are associated with the grossularite rich bands, and is subgrade. A major fracture or minor fault 43° LCA occurs at 109.66m.
Bedding is at: $\approx 52^{\circ}$ LCA @ 105.39m
$\approx 56^{\circ}$ LCA @ 106.55m
$\approx 58^{\circ}$ LCA @ 107.80m

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 400/7

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4080	.70	.02	BH 2226	0.65		BH 2227	0.74		BH 2228	0.83		
BH 4090	.38	.02	BH 2229	0.32		BH 2230	0.45		BH 2231	0.39		
BH 4100	.25	.02	BH 2232	0.22		BH 2233	0.34		BH 2234	0.30		
BH 4120	.21	.01	BH 2235	0.17		BH 2236	0.25		BH 2237	0.26		

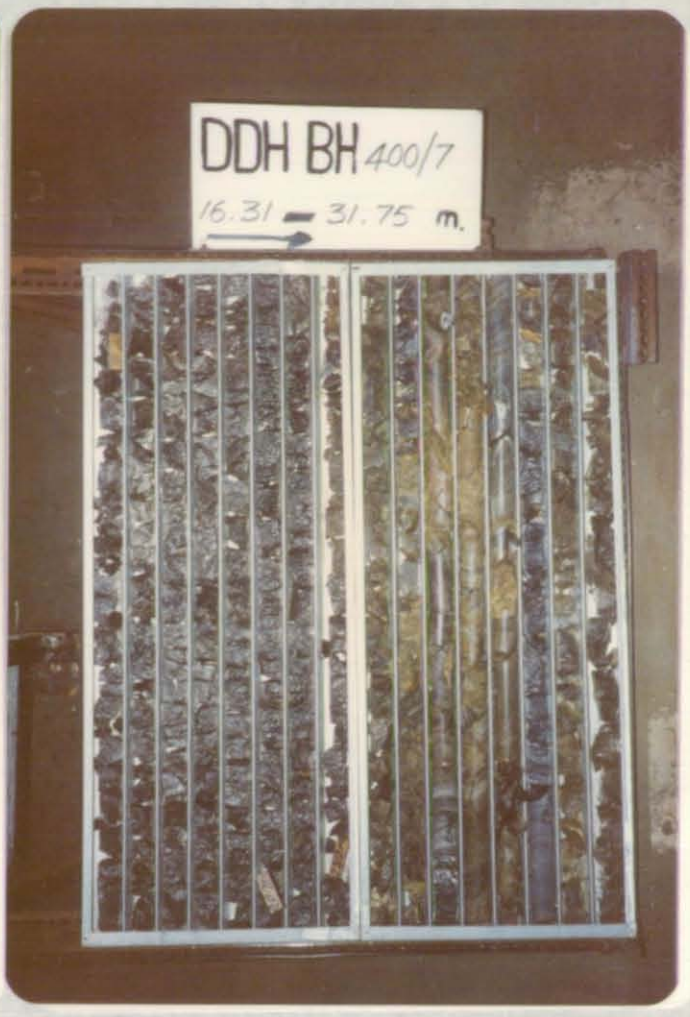
GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

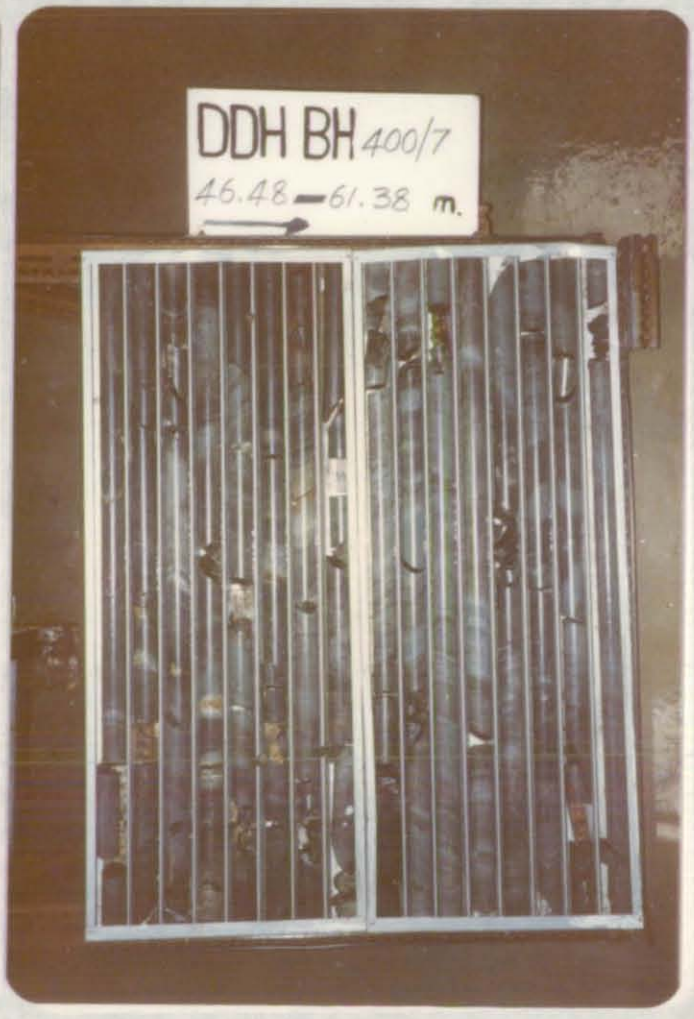
D.D.H. BH 400/7

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4080	0.70		BH 2226			BH 2227			BH 2228			
4090	0.38		2229			2230			2231			
4100	0.25		2232			2233			2234			
4120	0.21		2235			2236			2237			
4130	0.01		2238	<0.01		2239	0.038		2240	0.026		


DDH BH 400/7
0.00 — 16.31 m.

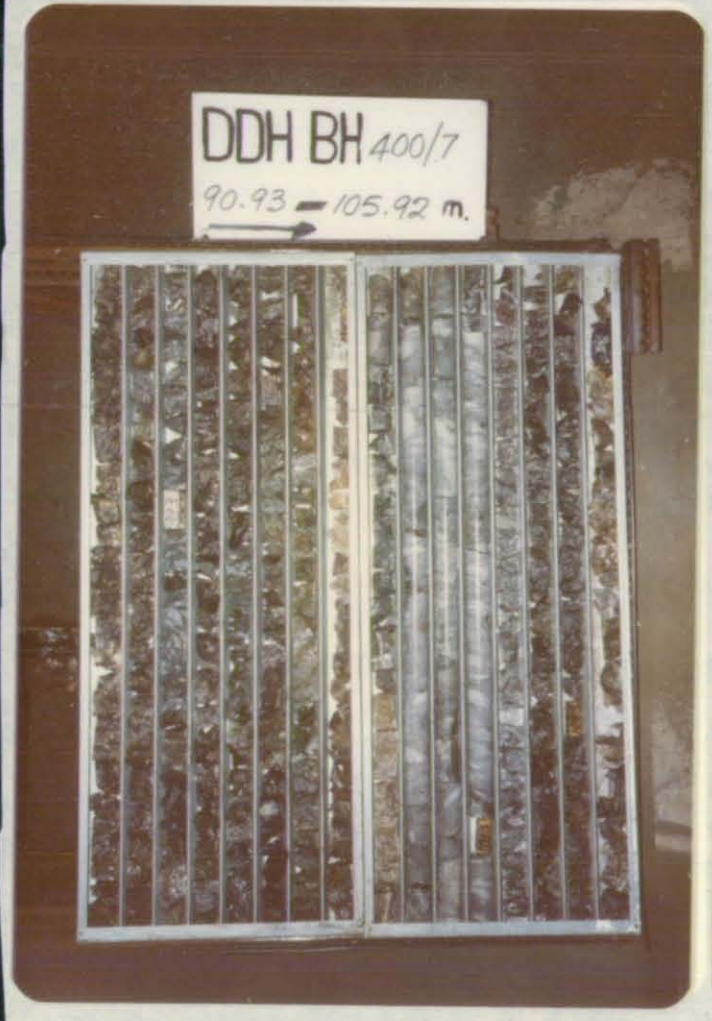

DDH BH 400/7
16.31 — 31.75 m.

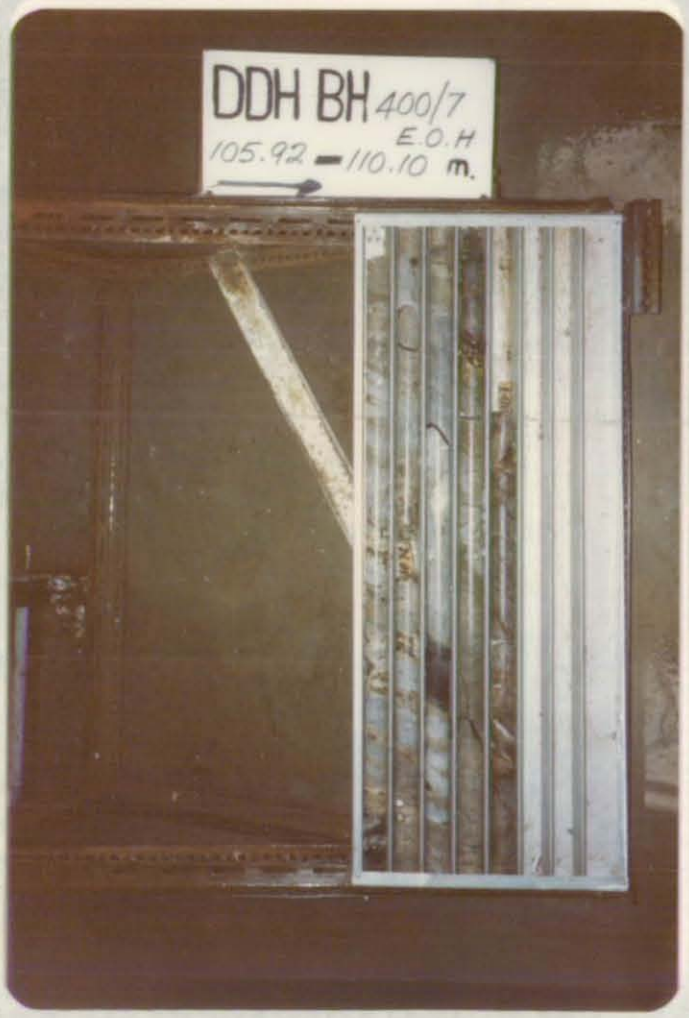

DDH BH 400/7
31.75 — 46.48 m.


DDH BH 400/7
46.48 — 61.38 m.


DDH BH 400/7
61.38 — 76.11 m.


DDH BH 400/7
76.11 — 90.93 m.


DDH BH 400/7
90.93 — 105.92 m.


DDH BH 400/7
105.92 — 110.10 m.
E.O.H

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. Bold Head 400/6

PLANNING

Proposer: S.G. Brown — Depth: 60m

Location: N53 drive

Purpose of hole: To test BF_2 lens.

Co-ordinates: 10381 E 10402 N
Inclination: -72° Magnetic:
Bearing 090 Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 27/9/76

SURVEY

Survey Co-ords: 10 379.66 E 10 401.77 N
Survey bearing: 87° 26' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: E N
R.L. of Collar: 957.70 Inclination of Hole: -71° 13'
Picked up by: A. Grigulis Date: 10/11/76

SUMMARY

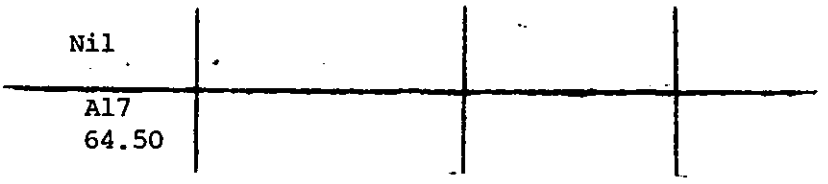
Logged by: S. Grieve Brown
Results: 9.0 - 15.0m 6m @ 0.62% WO_3
35.0 - 42.0m 7m @ 0.64% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 26/10/76 Date terminated: 28/10/76

Casing: Size: Nil
Depth:
Core: Size: A17
Depth: 64.50



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

Extension:

Reason for termination: Below mineral zone

Condition of hole on completion: Final depth: 64.50
Casing: Nil
Cemented: No

Bore hole survey: Multishot

Water: Minor

Comments on drilling conditions: Good

GEOPEKO LIMITED - BOLD HEAD

ASSAY DATA

D.D.H. No. BH 400/6

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH4034	4.0	5.0	1.0	1.0	< 0.01	< 0.01		
5	5.0	6.0	1.0	1.0	< 0.01	< 0.01		
6	6.0	7.0	1.0	1.0	0.90	0.05		
7	7.0	8.0	1.0	1.0	0.19	< 0.01		
8	8.0	9.0	1.0	1.0	0.14	< 0.01		
9	9.0	10.0	1.0	1.0	0.47	0.02		
4040	10.0	11.0	1.0	1.0	0.19	0.01		
1	11.0	12.0	1.0	1.0	0.88	0.04		9.0 - 15.0
2	12.0	13.0	1.0	1.0	1.11	0.05		
3	13.0	14.0	1.0	1.0	0.62	0.03		6m @ 0.62% WO_3
4	14.0	15.0	1.0	1.0	0.42	0.01		
5	15.0	16.0	1.0	1.0	0.02	< 0.01		
6	16.0	17.0	1.0	1.0	0.01	"		
7	17.0	18.0	1.0	1.0	0.18	"		
8	18.0	19.0	1.0	1.0	< 0.01	"		
9	19.0	20.0	1.0	1.0	< 0.01	"		
4050	20.0	21.0	1.0	1.0	< 0.01	"		
1	21.0	22.0	1.0	1.0	0.06	"		
2	22.0	23.0	1.0	1.0	0.29	0.01		
3	23.0	24.0	1.0	1.0	0.15	< 0.01		
4	24.0	25.0	1.0	1.0	0.22	"		
5	25.0	26.0	1.0	1.0	0.01	"		
6	34.0	35.0	1.0	1.0	0.05	< 0.01		
7	35.0	36.0	1.0	1.0	0.61	0.02		
8	36.0	37.0	1.0	1.0	0.94	0.04		35.0 - 42.0
9	37.0	38.0	1.0	1.0	0.65	0.02		
4060	38.0	39.0	1.0	1.0	0.32	< 0.01		7m @ 0.64% WO_3
1	39.0	40.0	1.0	1.0	0.44	< 0.01		
2	40.0	41.0	1.0	1.0	1.06	0.05		
3	41.0	42.0	1.0	1.0	0.45	< 0.02		
4	42.0	43.0	1.0	1.0	0.11	< 0.01		
5	43.0	44.0	1.0	1.0	0.23	0.01		
6	44.0	45.0	1.0	1.0	0.08	< 0.01		
7	45.0	46.0	1.0	1.0	< 0.01	"		
8	46.0	47.0	1.0	1.0	< 0.01	"		
9	47.0	48.0	1.0	1.0	0.04	"		
4070	48.0	49.0	1.0	1.0	0.07	"		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - Bold Head

ASSAY DATA

D.D.H. No. BH 400/6

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
4071	57.0	58.0	1.0	1.0	0.01	0.01		
2	58.0	59.0	1.0	1.0	0.25	0.01		
3	59.0	60.0	1.0	1.0	0.81	0.05		
4	60.0	61.0	1.0	1.0	0.16	0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BOLD HEAD 400/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.70	3.70	3.10	83.78
6.70	3.00	2.99	99.67
6.90	0.20	0.24	120.00
9.80	3.00	2.79	93.00
12.80	3.00	3.03	101.00
15.80	3.00	2.98	99.33
18.80	3.00	2.95	98.33
21.80	3.00	3.02	100.67
24.80	3.00	2.98	99.33
27.80	3.00	3.02	100.67
30.80	3.00	3.02	100.67
33.80	3.00	3.01	100.33
36.80	3.00	2.98	99.33
39.80	3.00	2.98	99.33
42.80	3.00	3.00	100
45.80	3.00	2.99	99.67
48.80	3.00	3.01	100.33
51.80	3.00	3.00	100
53.90	2.10	2.04	97.14
56.90	3.00	3.04	101.33
59.90	3.00	3.02	100.67
62.10	2.20	1.98	90.00
64.50	2.40	2.38	99.17

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. 400/6

0.00 - 6.33m — MARBLE

From 0.00-0.80 only minor core recovered, cased to this depth.

This unit consists of barren grey marble with some remnant bedding apparant in places.

A small unit of mineralised marble occurs between 4.93-5.15 metres but otherwise this unit is barren.
Bedding is at 62° LCA at 5.65m.

6.33- 7.23 — GARNET SKARN

A small unit of coursely crystline garnet skarn containing high grade scheelite present as finely disseminated crystals occuring around the garnet.

7.23 - 19.01 — MINERALISED BANDED FOOTWALL BEDS

The main scheelite bearing area is between 7.23 - 15.70m below which the scheelite is present in trace to minor amounts.

This unit is essentially a banded pyroxene garnet calcite hornfels. Initially the garnet and pyroxene bands are dominant but the amount of garnet decreases until below 15.70m the pyroxene and calcite are dominant.

Moderate to good grade scheelite is present between 7.23 - 15.70m in the garnet rich bands.
Bedding is present at 57° LCA at 7.80m
55° LCA at 10.10m
57° LCA at 12.60m
59° LCA at 18.65m

19.01 - 20.87 — BIOTITE HORNFELS

This is essentially a banded unit of biotite pyroxene hornfels unit and is probably part of the banded footwall beds underlying it.
Bedding is at 64° LCA at 19.90m . This unit is barren.

20.87 - 34.68 — BANDED FOOTWALL BEDS

This unit consists of alternating bands of calcite, garnet, pyroxene and biotite hornfels. Some scheelite mineralisation is present in the garnet rich areas between 21.50m and 24.32m. Below this only minor garnet is present and the marble horizons are largely unaltered.
Bedding is well developed through out this unit.
68° LCA at 21.48m
63° LCA at 25.10m
56° LCA at 28.95m
63° LCA at 32.65m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Bold Head 400/6

34.68 - 44.41 MINERALISED BANDED FOOTWALL BEDS

This is a similar banded unit to that above but with only minor calcite beds and large numbers of garnet rich horizons. The garnet rich areas are due to replacement of the marble horizons of the above unit.

Some barren units are present below the 40m mark and these usually consist of biotite hornfels.

Bedding is apparant through out 60° LCA @ 37.5m
60° LCA @ 39.0m
77° LCA @ 42.47m

44.41 - 48.60 BANDED FOOTWALL BEDS

A finely banded unit of alternating bands of biotite calcite, garnet, pyroxene hornfels. The garnet bands have minor scheelite mineralisation and are present between 48.30 - 48.61m.

Bedding 25° LCA @ 45.60m
60° LCA @ 47.50m

48.60 - 57.54 BANDED BIOTITE PYROXENE HORNFELS

A finely banded unit of brown purple biotite hornfels and light grey pyroxene hornfels.

This unit appears quite disturbed in the lower portion.

Bedding is at 21° LCA @ 49.4m
35° LCA @ 52.0m
21° LCA @ 54.7m

57.54 - 60.41m PYROXENE GARNET HORNFELS

This appears to be a disturbed banded unit with pyroxene and garnet hornfels present as the dominant members. This unit is extremely disturbed and has a podded appearance.

Scheelite mineralisation is present throughout at minor to moderate grade.

The last 20cm are very pale green in colour similar to that found adjacent to the Boundary Fault.

60.41 - 62.00 SPOTTED BIOTITE HORNFELS

A spotted grey block unit of what is presumably biotite hornfels.

62.00 - 62.20 POSSIBLE FAULT

A small area of broken and chlorite material.

62.20 - 64.50 E.O.H PODDED BIOTITE PYROXENE HORNFELS

A disturbed podded unit of biotite pyroxene hornfels with irregular fragments of apparently siliceous material.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 400/6

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4040	0.19		BH 2214	0.20		BH 2215	0.24		BH 2216	0.23		
4050	< 0.01		2217	< 0.01		2218	0.016		2219	0.018		
4060	0.32		2220	0.42		2221	0.43		2222	0.42		
4070	0.07		2223	0.01		2224	0.125		2225	0.10		


DDH BH 4-00/6
0000 - 15.65 m.


DDH BH 4-00/6
15.65 - 30.35 m.


DDH BH 4-00/6
30.35 - 45.09 m.


DDH BH 4-00/6
45.09 - 59.81 m.


DDH BH 4-0016
49.81 - 64.50 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 400/5

PLANNING

Proposer: S.G. Brown — Depth: 45m.

Location: N 53 drive

Purpose of hole: To locate No.2 Fault and test B lens Main.

Co-ordinates:	10 379	E	10 402	N
Inclination:	-40°			Magnetic:
Bearing	270°	Grid		Target Depth:
Target:		E		N
Approved by:	M.C. Rogers			Date: 27/9/76

SURVEY

Survey Co-ords:	10 378.10	E	10 401.40	N
Survey bearing:	269°44'	Grid		Magnetic:
Surveyed in by:				Date:
Actual Co-ords:		E		N
R.L. of Collar:	957.76			Inclination of Hole: -37°00'
Picked up by:	A.G.			Date: 10/11/76

SUMMARY

Logged by: S.G. Brown

Results:
11.0m - 18.0m 7m @ 1.48% (WO 3)
28.0m - 34.0m 6m @ 1.27% (WO 3)

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 23/10/76 — Date terminated: 26/10/76

Casing:	Size:	NQ
	Depth:	1.0
Core:	Size:	A 17
	Depth:	40.0

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

Extension: Nil

Reason for termination: Entered barren marble below B lens Main.

Condition of hole on completion: — Final depth: 41.0
Casing: Pulled
Cemented: No

Bore hole survey: Multishot Camera

Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 400/5

Survey method: Multishot Camera
Final depth : 41.0m
Casing depth : 1.0m

Depth surveyed to: 41.0
Date surveyed:26/10/76
Surveyed by :V.Powell
Checked by :R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
6m	259 00'	231 00'	52 00'	-38 00'	3.69	2.98	3.68
18m	269 30'	241 30'	50 45'	-39 15'	11.25	7.43	11.88
30m	272 00'	244 00'	50 00'	-40 00'	18.95	11.46	20.15
41m	272 30'	244 30'	49 00'	-41 00'	26.13	15.09	27.65

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 400/5

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.1	3.1	1.98	64
6.1	3.0	2.99	100
9.1	3.0	3.03	101
12.1	3.0	1.88	63
15.1	3.0	3.00	100
18.1	3.0	3.02	101
19.0	0.90	1.03	114
21.4	2.40	2.33	97
24.4	3.0	2.98	99
27.4	3.0	2.98	99
29.0	1.60	1.71	107
32.0	3.00	3.01	100
35.0	3.00	3.03	101
38.0	3.00	3.01	100
41.0	3.00	3.00	100
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 400/5

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH 4018	11.0	12.0	1.0	1.0	0.79	0.03	
4019	12.0	13.0	1.0	1.0	0.77	0.04	
4020	13.0	14.0	1.0	1.0	0.42	0.02	
4021	14.0	15.0	1.0	1.0	0.28	0.01	11.0 - 18.0
4022	15.0	16.0	1.0	1.0	3.40	0.21	7m @ 1.48 (WO 3
4023	16.0	17.0	1.0	1.0	3.82	0.24	
4024	17.0	18.0	1.0	1.0	0.88	0.04	
4025	18.0	19.0	1.0	1.0	0.23	< 0.01	
4026	27.0	28.0	1.0	1.0	0.21	< 0.01	
4027	28.0	29.0	1.0	1.0	0.90	0.02	
4028	29.0	30.0	1.0	1.0	1.36	0.07	
4029	30.0	31.0	1.0	1.0	0.08	0.01	28.0 - 34.0
4030	31.0	32.0	1.0	1.0	2.05	0.10	6m @ 1.27 (WO 3
4031	32.0	33.0	1.0	1.0	1.76	0.09	
4032	33.0	34.0	1.0	1.0	1.44	0.08	
4033	34.0	35.0	1.0	1.0	< 0.01	< 0.01	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/5

0.0 - 9.10m MARBLE

A barren grey marble with quite well developed bedding apparant in some areas. This unit is completely barren and the marble does not contain any pyroxene or garnet.
Bedding is at 23° LCA @ 4.0m.
24° LCA @ 7.88m.
11° LCA @ 8.79m.

9.10 - 10.7 FAULT

Only 45cm of core recovered here. The core consists of sheared and broken marble for the most part and appears to dip at 18° LCA.

10.70 - 11.22 MARBLE

As above shows signs of brecciation.

11.22 - 17.40 GARNET SKARN

This is a solid garnet skarn containing high grade scheelite throughout. Only minor calcite and pyroxene are apparant in this unit.

No. 2 Fault appears to be located at 16.31 - 16.38m where a calcite and pyrite filled fault is located. It is however possible that No.2 Fault may occur at 18.1m.

17.40 - 28.62 BIOTITE PYROXENE HORNFELS

Essentially this is a disturbed and banded unit of biotite pyroxene hornfels with minor bands of garnet and calcite present throughout.

Due to the presence of this unit the hangingwall of B lens Main is difficult to pin down accurately. A definite fault zone with leaching of surrounding rocks is apparant between 18.05 - 18.21m the core continues broken to about 20m.

Between 23.57 - 23.89m there is a small aplite dyke present.

Possible major fractures occur at 24.40m and 25.25m where broken chlorite rich core occurs.

28.62 - 34.20 PYROXENE GARNET HORNFELS

Between 28.62 - 31.70 the pyroxene is dominant with moderate amounts of garnet and lesser amounts of biotite. Mineralisation is present in this unit between 28.91 and 29.96 and occurs as large crystals and disseminated grains.

Only minor scheelite is present between 30.86 and 31.70m in a pyroxene garnet hornfels.
Between 31.70 - 34.20m good grade scheelite is present in a garnet skarn unit which grades down into mineralised marble over the last metre.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/5

34.20 - 41.0	MARBLE

Essentially a barren marble with well developed bedding. Some minor areas of mineralised marble are present, as between 38.89 - 39.74m.

41.0 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 400/5

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4020	0.42		BH 2208	0.40		BH 2209	0.44		BH 2210	0.44		
4030	2.05		2211	1.42		2212	1.98		2213	2.02		


DDH BH 400/5
00.00 - 16.57 m.


DDH BH 400/5
16.57 - 30.34 m.


DDH BH 400/5
30.34 - 41.00m.
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 400/4

PLANNING

Proposer: S.G. Brown — Depth: 55m

Location: N 53 drive 10400 N Cuddy.

Purpose of hole: To test BF2 lens.

Co-ordinates: 10381.0 E 10402.0 N
Inclination: -36° Magnetic:
Bearing 090 Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 27/9/76

SURVEY

Survey Co-ords: 10 380.60 E 10 401.72 N
Survey bearing: 90°06' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: E N
R.L. of Collar: 957.83 Inclination of Hole: -35°17'
Picked up by: A.G. Date: 10/11/76

SUMMARY

Logged by: R. van den Bogaart.
Results: 3.0 - 15.0m, 12.0m @ 0.84% WO_3.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 20/10/76 Date terminated: 22/10/76

Casing:	Size:	NQ
	Depth:	1.0
Core:	Size:	A 17
	Depth:	55.7

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

Extension: Nil
Reason for termination: Entered quartzites.

Condition of hole on completion: Final depth: 55.7m.
Casing: Pulled
Cemented: No
Bore hole survey: Multishot Camera.
Water: Minor

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 400/4

Survey method: Multishot camera
Final depth : 55.7m
Casing depth : 1.0m

Depth surveyed to: 55.0m
Date surveyed: 22/10/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
6m	98°30'	70°30'	53°45'	-36°15'	3.55	1.62	4.56
18m	95°00'	67°00'	53°15'	-36°45'	10.71	5.23	13.49
30m	89°00'	61°00'	53°45'	-36°15'	17.79	9.71	22.08
42m	89°00'	61°00'	54°00'	-36°00'	24.89	14.47	30.49
55m	92°00'	64°00'	53°45'	-36°15'	32.54	19.19	39.88

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 400/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.7	2.7	2.54	94
4.7	2.0	1.98	99
7.7	3.0	2.95	98
10.7	3.0	3.0	100
13.7	3.0	2.98	99
16.7	3.0	2.93	98
14.7	3.0	3.05	102
22.7	3.0	2.99	100
25.7	3.0	2.98	99
28.7	3.0	2.98	99
31.7	3.0	3.00	100
34.7	3.0	3.01	100
37.7	3.0	2.96	99
40.7	3.0	2.95	98
43.7	3.0	3.02	101
46.7	3.0	2.96	99
49.7	3.0	2.95	98
52.7	3.0	3.02	101
55.7	3.0	3.06	102
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No: B 400/4

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo	COMMENTS
BH 4000	2.0	3.0	1.0	1.0	<0.01	<0.01	
1	3.0	4.0	1.0	1.0	1.09	0.05	
2	4.0	5.0	1.0	1.0	1.46	0.07	
3	5.0	6.0	1.0	1.0	0.63	0.03	
4	6.0	7.0	1.0	1.0	0.51	0.03	
5	7.0	8.0	1.0	1.0	0.04	<0.01	3.0 - 15.0m,
6	8.0	9.0	1.0	1.0	0.95	0.03	12.0m @ 0.84% WO_3
7	9.0	10.0	1.0	1.0	0.71	0.03	
8	10.0	11.0	1.0	1.0	0.51	0.02	
9	11.0	12.0	1.0	1.0	0.98	0.03	
4010	12.0	13.0	1.0	1.0	1.73	0.08	
1	13.0	14.0	1.0	1.0	1.23	0.08	
2	14.0	15.0	1.0	1.0	0.25	<0.01	
3	15.0	16.0	1.0	1.0	<0.01	<0.01	
4	16.0	17.0	1.0	1.0	0.02	<0.01	
5	17.0	18.0	1.0	1.0	0.34	0.01	
6	18.0	19.0	1.0	1.0	0.01	0.01	
7	19.0	20.0	1.0	1.0	0.01	0.01	

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/4

0.00 - 3.22 MARBLE

A recrystallised greyish - white marble showing remnant bedding. The unit is devoid of scheelite mineralisation. Remnant bedding is at:

≃66° LCA @ 0.78m.
≃34° LCA @ 2.62m.

3.22 - 7.09 PYROXENE GARNET SKARN (BF 1 LENS)

A brownish - green unit of pyroxene - garnet skarn consisting of andradite, pyroxene and calcite with minor amounts of grossularite, actinolite and pyrite. The unit contains fine grained scheelite throughout, and is expected to reach high ore grade.

7.09 - 14.03 MINERALISED BANDED FOOTWALL BEDS

A unit consisting of alternate bands of biotite, pyroxene and pyroxene-garnet-calcite hornfels. Pyroxene - garnet-calcite hornfels dominates, followed by pyroxene and biotite hornfels in decreasing order of abundance. The pyroxene-garnet-calcite hornfels bands consist of pyroxene, calcite and andradite and grossularite garnet in variable amounts. The unit contains minor quartz, pyrite and some flakes of molybdenite (e.g. 13.50m). The unit contains fine to medium grained scheelite in the pyroxene-garnet-calcite hornfels, and is expected to reach ore grade.

Bedding is at:

≃49° LCA @ 7.50m.
≃35° LCA @ 8.72m.
≃55° LCA @ 11.57m.

14.03 - 19.35 MINERALISED MARBLE

This is probably a continuation of the unit above, the individual units, however, are larger. Essentially it is a greyish - green marble with abundant pyroxene and minor amounts of grossularite, andradite and some small flakes of molybdenite. Some minor bands of biotite and pyroxene hornfels occur in this unit. Fine to medium grained scheelite occurs between 16.96 - 18.41m and is expected to reach ore grade.

Bedding is at:

≃57° LCA @ 16.50m.

19.35 - 39.73 BANDED FOOTWALL BEDS

A disturbed unit consisting of alternate bands of biotite, pyroxene, garnet and calcite hornfels. Calcite hornfels dominates, followed by pyroxene, biotite and garnet bands in decreasing order of abundance. The calcite rich bands show remnant bedding and contain variable amounts of wollastonite with bands and spots of grossularite, pyroxene and epidote. The wallastonite is puggy when wet, but forms

a white powder when dry. Only minor grains of scheelite are associated with the grossularite.

Bedding is at
≃36° LCA @ 23.40m.
≃52° LCA @ 26.17m.
≃66° LCA @ 27.16m.
≃43° LCA @ 30.79m.
≃22° LCA @ 34.50m.
≃29° LCA @ 39.43m.

39.73 - 53.04 DISTURBED BIOTITE PYROXENE HORNFELS

A disturbed brownish - green unit of biotite pyroxene hornfels containing subangular pods of calcite and grossularite. Initially the unit is banded, but between 41 - 53m the banding has been disrupted and has become silicified in some places. Pyrrhotite occurs as flakes and irregular bands throughout the unit. A band of pyrrhotite 0.15m thich occurs between 42.43 - 42.58m. The unit is truncated by the Boundary Fault is represented by a 8cm thich calcite filled fault plane ≃ 32° LCA @ 53.04m. The unit contains only minor grains of scheelite associated with the calcite and grossularite pods.

Banding is at:
≃28° LCA @ 40.10m.
≃27° LCA @ 41.45m.

53.04 - 55.7 QUARTZITES

A fine grained unit of grey quartzites with some darker bands of siltstones. Pyrite occurs along the bedding planes.

55.7 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 400/4

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4000	<0.01		BH 2202	<0.01		BH 2203	.006		BH 2204	.0035		
4010	1.73		2205	1.38		2206	1.48		2207	1.48		

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO BH 400/3

PLANNING

Proposer: S.G. Brown — Depth: 100 m

Location: N 53 drive 10400N cuddy

Purpose of hole: To test BP2 ad C, and C2 lens

Co-ordinates: 10380 E 10402.0 N

Inclination: -90° Magnetic:

Bearing Grid Target Depth:

Target: E N

Approved by: M.C. Rogers Date: 27/9/76

SURVEY

Survey Co-ords: 10 379.24 E 10401.74 N

Survey bearing: 355° 35' Grid Magnetic:

Surveyed in by: Date:

Actual Co-ords: E N

R.L. of Collar: 957.83 Inclination of Hole: -86° 46'

Picked up by: A. Grigulis Date: 16.11.76

SUMMARY

Logged by: R. van den Bogaart

Results: 10.0 - 13.0, 3m @ 0.50% WO3 16.0 - 18.0, 2m @ 0.38% WO3

22.0 - 24.0, 2m @ 1.29% WO3 35.0 - 37.0, 2m @ 0.33% WO3

69.0 - 71.0, 2m @ 0.82% WO3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 14/10/76 Date terminated 20/10/76

Casing: Size: NQ

Depth: 1.0

Core: Size: A 17

Depth: 101.3

Wedge Runoff:

Wedge placed: Depth:

Proposed by: Approved by:

Reason:

Extension: Nil

Reason for termination: entered barren marble below mineralised zone

Condition of hole on completion: Final depth: 101.3

Casing: pulled

Cemented: No

Bore hole survey: Multishot camera

Water: yes

Comments on drilling conditions: good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 400/3

Survey method: Multishot camera
Final depth : 101.3m
Casing depth : 1.0m

Depth surveyed to: 101
Date surveyed: 20/10/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
6m	226°00'	198°00'	2°37'	-87°23'	5.99	0.04	0.02
18m	229°00'	201°00'	2°30'	-87°30'	17.97	0.52	0.20
36m	227°00'	199°00'	3°00'	-87°00'	35.94	1.33	0.49
54m	253°00'	225°00'	4°15'	-85°45'	53.89	2.20	1.27
72m	264°00'	236°00'	5°30'	-84°30'	71.81	3.17	2.65
90m	264°00'	236°00'	5°45'	-84°15'	89.73	4.16	4.10
101m	269°00'	241°00'	6°30'	-83°30'	100.66	4.76	5.20

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 400/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.7	3.7	2.83	76
6.7	3.0	2.97	99
9.7	3.0	2.93	98
11.4	1.7	1.69	99
14.4	3.0	2.96	99
17.7	3.3	2.89	88
20.7	3.0	2.97	99
23.7	3.0	2.97	99
26.7	3.0	3.02	101
28.2	1.5	1.76	117
31.2	3.0	2.96	99
34.2	3.0	2.98	99
37.2	3.0	2.93	98
40.2	3.0	2.97	99
43.2	3.0	2.94	98
46.2	3.0	2.95	98
48.0	1.8	1.78	99
50.2	2.2	2.04	93
52.5	2.3	2.37	103
55.5	3.0	2.89	96
58.5	3.0	2.99	100
61.5	3.0	2.98	99
64.5	3.0	3.03	101
66.3	1.8	1.82	101
69.3	3.0	2.95	98
72.4	3.1	3.14	101
75.4	3.0	3.01	100
78.5	3.1	3.02	97
81.5	3.0	2.97	99
83.1	1.6	1.74	109
86.1	3.0	2.89	96
89.1	3.0	3.00	100
92.1	3.0	2.99	100
93.8	1.7	1.79	105
96.8	3.0	2.97	99
98.3	1.5	1.52	101
101.3	3.0	2.82	94

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 400/3

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo	COMMENTS
BH							
3946	8.0	9.0	1.0	1.0	< 0.01	< 0.01	
7	9.0	10.0	1.0	1.0	0.18	< 0.01	
8	10.0	11.0	1.0	1.0	0.59	0.02	10.0 - 13.0, 3m @ 0.50%WO_3
9	11.0	12.0	1.0	1.0	0.41	0.01	
3950	12.0	13.0	1.0	1.0	0.49	0.02	
1	13.0	14.0	1.0	1.0	0.12	< 0.01	
2	14.0	15.0	1.0	1.0	< 0.01	< 0.01	
3	15.0	16.0	1.0	1.0	< 0.01	< 0.01	
4	16.0	17.0	1.0	1.0	0.34	0.01	
5	17.0	18.0	1.0	1.0	0.42	0.01	16.0 - 18.0, 2m @ 0.38%WO_3
6	18.0	19.0	1.0	1.0	< 0.01	< 0.01	
7	19.0	20.0	1.0	1.0	< 0.01	< 0.01	
8	20.0	21.0	1.0	1.0	0.02	< 0.01	
9	21.0	22.0	1.0	1.0	0.18	< 0.01	
3960	22.0	23.0	1.0	1.0	1.64	0.07	22.0 - 24.0, 2m @ 1.29% WO_3
1	23.0	24.0	1.0	1.0	0.93	0.04	
2	24.0	25.0	1.0	1.0	0.18	< 0.01	
3	25.0	26.0	1.0	1.0	0.20	< 0.01	
4	26.0	27.0	1.0	1.0	< 0.01	< 0.01	
5	27.0	28.0	1.0	1.0	< 0.01	< 0.01	
6	28.0	29.0	1.0	1.0	0.05	< 0.01	
7	29.0	30.0	1.0	1.0	0.06	< 0.01	
8	30.0	31.0	1.0	1.0	< 0.01	< 0.01	
9	31.0	32.0	1.0	1.0	< 0.01	< 0.01	
3970	32.0	33.0	1.0	1.0	< 0.01	< 0.01	
1	33.0	34.0	1.0	1.0	< 0.01	< 0.01	
2	34.0	35.0	1.0	1.0	< 0.01	< 0.01	
3	35.0	36.0	1.0	1.0	0.36	0.01	
4	36.0	37.0	1.0	1.0	0.30	0.01	
5	37.0	38.0	1.0	1.0	0.19	< 0.01	35.0-37.0
6	38.0	39.0	1.0	1.0	0.29	0.01	2m @ 0.38% WO3
7	39.0	40.0	1.0	1.0	< 0.01	< 0.01	
8	40.0	41.0	1.0	1.0	< 0.01	< 0.01	
9	41.0	42.0	1.0	1.0	< 0.01	< 0.01	
3980	67.0	68.0	1.0	1.0	< 0.01	< 0.01	
1	68.0	69.0	1.0	1.0	0.08	< 0.01	
2	69.0	70.0	1.0	1.0	0.58	0.02	69.0 - 71.0
3	70.0	71.0	1.0	1.0	1.06	0.04	2m @ 0.82% WO 3
4	71.0	72.0	1.0	1.0	0.05	< 0.01	
5	72.0	73.0	1.0	1.0	0.08	< 0.01	
6	73.0	74.0	1.0	1.0	0.07	< 0.01	
7	74.0	75.0	1.0	1.0	0.17	< 0.01	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 400/3

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
8	75.0	76.0	1.0	1.0	0.27	0.01		
9	76.0	77.0	1.0	1.0	< 0.01	< 0.01		
3990	77.0	78.0	1.0	1.0	0.14	< 0.01		
1	78.0	79.0	1.0	1.0	0.08	< 0.01		
2	79.0	80.0	1.0	1.0	0.03	< 0.01		
3	80.0	81.0	1.0	1.0	0.04	< 0.01		
4	81.0	82.0	1.0	1.0	0.63	0.02		
5	82.0	83.0	1.0	1.0	< 0.01	< 0.01		
6	83.0	84.0	1.0	1.0	< 0.01	< 0.01		
7	84.0	85.0	1.0	1.0	< 0.01	< 0.01		
8	85.0	86.0	1.0	1.0	< 0.01	< 0.01		
3999	86.0	87.0	1.0	1.0	< 0.01	< 0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/3

0.00 - 8.15 MARBLE

A recrystallised greyish - white marble showing remnant bedding. The unit is devoid of scheelite mineralisation.

Remnant bedding is at:
≃55° LCA @ 3.17m.
≃55° LCA @ 5.87m.

8.15 - 10.22 BANDED FOOTWALL BEDS

A unit consisting of alternate bands of biotite, pyroxene and pyroxene garnet hornfels. Biotite and pyroxene bands dominate. Minor scheelite is associated with the pyroxene - garnet rich bands.

Bedding is at:
≃54° LCA @ 8.37m.
≃52° LCA @ 9.90m

10.22 - 13.17 MINERALISED BANDED FOOTWALL BEDS.

A unit consisting of alternate bands of biotite, pyroxene and pyroxene - garnet - calcite hornfels. The pyroxene - garnet - calcite hornfels bands dominate. The unit could be described as a banded pyroxene garnet hornfels. The pyroxene - garnet - calcite hornfels consists mainly of coarse grained andradite and calcite, with finer grained pyroxene, grossularite and pyrite. The unit contains fine to medium grained scheelite in the garnet rich area and is expected to reach ore grade.

Bedding is at:
≃52° LCA @ 11.2m.
≃61° LCA @ 12.32m.

13.17 - 22.79 BANDED FOOTWALL BEDS

A unit consisting of alternate bands of biotite, pyroxene, pyroxene - garnet and calcite hornfels. Pyroxene - garnet hornfels dominates, however, differs from the unit described above in that the unit is finer grained and that andradite and calcite are minor and grossularite and pyroxene is more dominant. The unit contains only minor scheelite in the pyroxene - garnet rich bands, but is expected to be subgrade.

Bedding is at:
≃68° LCA @ 17.46m.
≃60° LCA @ 20.70m.

A major calcite and chlorite filled fracture ≃13° LCA occurs at 14.25m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/3

22.79 - 26.70 MINERALISED BANDED FOOTWALL BEDS

A unit consisting of alternate bands of biotite pyroxene, pyroxene - garnet - calcite, and calcite hornfels. Pyroxene-garnet - calcite hornfels dominares, followed by in decreasing order of abundance, pyroxene, biotite and calcite hornfels. The unit contains fine to medium grained scheelite in the pyroxene - garnet - calcite rich bands and is expected to reach ore grade.

Bedding is at:
≈54° LCA @ 23.57m.
≈48° LCA @ 24.44m.
≈59° LCA @ 26.40m.

26.70 - 35.63 BANDED FOOTWALL BEDS

Similar to the unit described above i.e. a unit consisting of biotite, pyroxene, pyroxene garnet and calcite hornfels. Biotite and pyroxene hornfels bands dominate; pyroxene - garnet and calcite hornfels bands are minor. Scheelite mineralisation is minor except between 28.34 @ 28.93m; and is associated with the pyroxene - garnet rich bands. Bedding has been disturbed and the majority of the biotite pyroxene bands are parallel to the LCA.

Bedding is at:
≈55° LCA @ 27.0m.
≈57° LCA @ 28.0m.
≈25° LCA @ 29.65m.
≈4° LCA @ 30.80m.

35.63 - 39.10 PYROXENE GARNET SKARN

A mixed unit consisting mainly of pyroxene garnet skarn with minor bands of marble between 36.72 - 37.26m and 38.41 - 38.67m. The unit contains fine to medium grained scheelite in the pyroxene - garnet rich areas and is expected to reach ore grade. The unit is moderately leached. The unit is terminated against No.2 Fault which is represented by a 5cm calcite filled fault plane ≃27° LCA @ 39.10m.

39.10 - 40.74 MARBLE

A small unit of marble adjacent No.2 Fault. The marble is a recrystallised greyish - white to greenish marble containing abundant pyroxene in some places. The unit is leached and the core is rubble adjacent the No.2 Fault. The unit contains only minor scheelite and is subgrade.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/3

40.74 - 68.36 DISTURBED BIOTITE PYROXENE HORNFELS

A podded unit of biotite pyroxene hornfels with minor crystals and veins of pyrite throughout. Initially the unit contains subangular to pods of pyroxene, and pods of the same original unaltered biotite pyroxene hornfels. The last 4 metres of this unit contains calcite rich pods rimmed by pyroxene, grossularite and epidote. The unit is barren of scheelite mineralisation. A possible fault occurs at 55.5m. A major calcite and chlorite filled fracture $\measuredangle 35^{\circ}$ LCA occurs at 46.68m.

68.36 - 70.48 PYROXENE GARNET SKARN

A small unit of pyroxene garnet skarn consisting mainly of pyroxene, calcite and andradite with minor grossularite, actinolite and pyrite. The unit contains variable medium grained scheelite but is expected to reach ore grade only between 69.90 - 70.48m.

70.48 - 72.15 DISTURBED BIOTITE PYROXENE HORNFELS

A similar unit to that described above; i.e. a podded biotite pyroxene hornfels. Pods are of two types, an angular to subangular pyroxene rich pod and rounded calcite rich pods rimmed by pyroxene and grossularite. The unit is devoid of scheelite mineralisation.

72.15 - 86.56 PODDED PYROXENE GARNET HORNFELS

A podded unit of pyroxene garnet hornfels containing variable biotite and pyroxene rich areas. The unit contains numerous subangular carbonate rich pods. Scheelite mineralisation is erratic and is only expected to reach low to medium grade ore between 72.72 - 77.16m. The area containing the possible ore grade scheelite is characterised by andradite and actinolite with minor pyroxene, calcite and pyrite. The rest of the unit is expected to be subgrade and is characterised by areas rich in pyroxene and grossularite.

86.56 - 101.3 MARBLE

A recrystallised greyish - white marble with minor bands of biotite and pyroxene and irregular patches rich in grossularite. Initially the unit is disturbed and consists of sub - angular marble pods in a marble groundmass. Between 89.2 - 101.3m the podded unit grades into a marble unit, showing remnant bedding. The unit contains minor grains of scheelite associated with the grossularite rich patches.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/3

Remnant bedding is at:

≃76° LCA @ 91.5m
≃72° LCA @ 93.67m
≃74° LCA @ 96.85m
≃62° LCA @ 99.38m

A major fracture and possible fault (minor) ≃67° LCA occurs at 98m. Minor leaching is associated with the major fracture or possible fault.

101.3 E.O.H.

OPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 400/3

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 3950	0.49		BH 2190	0.81		BH 2191	1.04		BH 2192	0.20		
3960	1.64		2193	0.15		2194	0.235		2195	0.88		
3970	<0.01		2196	<0.01		2197	0.012		2198	0.0075		
3980	<0.01		2199	<0.01		2200	0.03		2201	.0025		

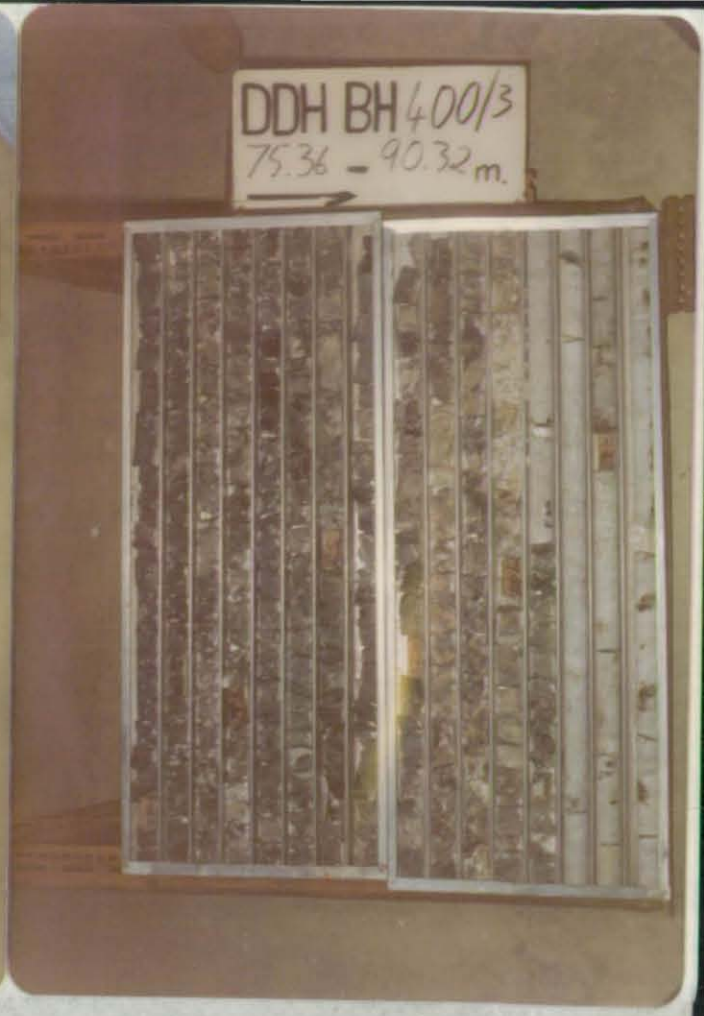

DDH BH 400/3
0000 - 15.98 m.

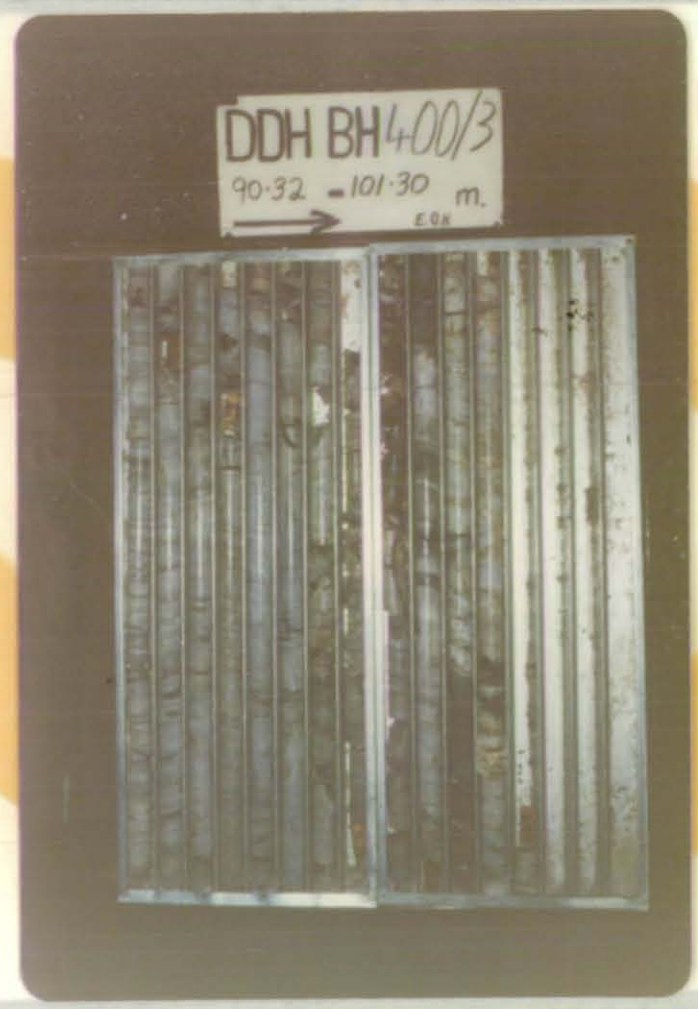

DDH BH 400/3
15.98 - 31.14 m.


DDH BH 400/3
31.14 - 45.77 m.


DDH BH 400/3
45.77 - 60.36 m.


DDH BH 400/3
60.36 - 75.36 m.


DDH BH 400/3
75.36 - 90.32 m.


DDH BH 400/3
90.32 - 101.30 m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 400/2

PLANNING

Proposer: S.G. Brown — Depth: 40m

Location: N 53 drive

Purpose of hole: To test BF2 and locate Boundary Fault.

Co-ordinates:	10381 E	10402 N	
Inclination:	-14	Magnetic:	
Bearing 090	Grid	Target Depth:	
Target:	E	N	
Approved by:	M.C. Rogers	Date: 27/9/76	

SURVEY

Survey Co-ords:	10 380.89 E	10 401.72 N	
Survey bearing:	89°58' Grid	Magnetic:	
Surveyed in by:		Date:	
Actual Co-ords:	E	N	
R.L. of Collar:	958.37	Inclination of Hole:	-14°41'
Picked up by:	A.G.	Date:	10/11/76

SUMMARY

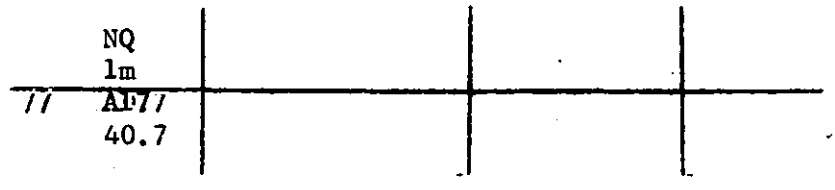
Logged by: R. van den Bogaart.
Results: 3.0 - 15.0m, 12.0m @ 0.69% WO_3 (BF1)

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 13/10/76 — Date terminated: 14/10/76

Casing:	Size:	NQ
	Depth:	1m
Core:	Size:	// AT//
	Depth:	40.7



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

Extension: Nil
Reason for termination: Entered quartzites.

Condition of hole on completion: — Final depth: 40.7m.
Casing: Pulled
Cemented: No
Bore hole survey: Multishot Camera
Water: Minor

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 400/2

Survey method: Multishot camera
Final depth : 40.7m
Casing depth : 1.0m

Depth surveyed to:40m
Date surveyed:15/10/76
Surveyed by :S.G. Brown
Checked by :R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
6m	94 00'	66 00'	75 00'	-15 00'	1.55	2.36	5.30
18m	92 00'	64 00'	74 37'	-15 23'	4.74	7.23	15.79
30m	92 00'	64 00'	74 45'	-15 15'	7.70	12.49	26.10
40m	92 00'	64 00'	74 45'	-15 15'	10.23	16.72	34.77

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 400/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.5	2.5	2.5	100
5.5	3.0	3.0	100
7.7	2.2	2.10	95
10.7	3.0	3.02	1010
13.7	3.0	2.98	99
16.7	3.0	2.92	97
19.7	3.0	2.85	95
22.7	3.0	3.07	102
25.7	3.0	2.96	99
28.7	3.0	3.03	101
31.7	3.0	2.96	99
34.7	3.0	3.05	102
36.8	2.10	2.13	101
39.7	2.9	2.74	94
40.7	1.0	1.02	102
E.O.H.			

GEOPEKO LIMITED – BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 400/2

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo	COMMENTS
BH 3932	2.0	3.0	1.0	1.0	<0.01	<0.01	
3	3.0	4.0	1.0	1.0	0.59	0.02	
4	4.0	5.0	1.0	1.0	0.94	0.04	
5	5.0	6.0	1.0	1.0	1.00	0.05	
6	6.0	7.0	1.0	1.0	0.61	0.03	
7	7.0	8.0	1.0	1.0	0.75	0.04	
8	8.0	9.0	1.0	1.0	0.96	0.03	3.0 - 15.0m, 12.0m
9	9.0	10.0	1.0	1.0	0.16	<0.01	@ 0.69% WO_3
3940	10.0	11.0	1.0	1.0	1.41	0.08	
1	11.0	12.0	1.0	1.0	0.30	0.02	
2	12.0	13.0	1.0	1.0	0.59	0.02	
3	13.0	14.0	1.0	1.0	0.56	0.01	
4	14.0	15.0	1.0	1.0	0.44	0.01	
3945	15.0	16.0	1.0	1.0	<0.01	<0.01	

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 400/2

0.00 - 3.34 MARBLE

A greyish white, recrystallised marble showing some remnant bedding. The unit is devoid of scheelite mineralisation.

Remnant bedding is at:
≈ 37° LCA @ 1.24m.
≈ 33° LCA @ 2.12m.

3.34 - 8.77 PYROXENE GARNET SKARN (BF1 LENS)

A brownish - green unit of pyroxene garnet skarn consisting mainly of andradite and pyroxene with a variable carbonate content in the groundmass. The unit contains fine grained scheelite throughout and is expected to be ore grade. A major calcite filled fracture ≈ 13° LCA occurs at 7.6m.

8.77 - 14.52 MINERALISED BANDED FOOTWALL BEDS

A unit consisting of alternate bands of biotite, pyroxene and pyroxene garnet hornfels. The pyroxene garnet bands contain abundant calcite. The unit contains fine to coarse grained scheelite associated with the pyroxene garnet rich bands, some of which may reach ore grade. Bedding has been somewhat disturbed the more reliable readings are at:
≈ 75° LCA @ 9.40m.
≈ 63° LCA @ 11.09m.

14.52 - 30.63 BANDED FOOTWALL BEDS

A unit consisting of alternate bands of biotite, pyroxene, garnet and calcite hornfels. Calcite hornfels is the dominant unit. Some spotted and puggy bands of Wallastonite and green diopside is associated with the calcite - grossularite rich bands. The unit contains only minor scheelite associated with the grossularite rich bands and spots. The unit is subgrade.

Bedding has been disturbed. Bedding is at
≈ 76° LCA @ 16.17m.
≈ 81° LCA @ 19.54m.
≈ 73° LCA @ 22.90m.
≈ 43° LCA @ 29.0m.

30.63 - 35.36 DISTURBED BIOTITE PYROXENE HORNFELS

The initial 0.8m of this unit is banded. (Banding is at ≈ 55° LCA @ 30.80m), after which the unit becomes very disturbed. Between 31.70 - 34.43m the disturbed zone contains patches of marble and pyroxene garnet hornfels. Some minor grains of scheelite is associated with the pyroxene garnet rich patches. Mear the Boundary Fault

the biotite pyroxene hornfels shows a mottled texture with the development of chlorite (?). The biotite pyroxene hornfels is terminated against the Boundary Fault which is represented by a 2cm carbonate filled fault plane $\simeq 87^{\circ}$ LCA @ 35.36m.

35.36 - 40.7 QUARTZITES

Initially the quartzites are somewhat disturbed and silicified, after which the unit becomes a typical medium grained quartzite with minor dark bands of siltstones. Pyrite and pyrrhotite are associated with the quartzites.

40.7 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 400/2

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 3935	1.00		BH 2184	0.88		BH 2185	1.04		BH 2186	0.98		
3945	<0.01		2187	<0.01		2188	0.02		2189	0.025		


DDH BH 400/2
0·0 -14·86 m


DDH BH 400/2
14·86 -30·13 m


DDH BH 400/2
30·13 -40·70 m

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 400/1

PLANNING

Proposer: S.G. Brown — Depth: 65m

Location: N 53 drive,

Purpose of hole: To test BF2 mineralisation.

Co-ordinates:	10381	E	10402	N
Inclination:	-55			Magnetic:
Bearing 090		Grid		Target Depth:
Target:		E		N
Approved by:	M.C. Rogers			Date: 27/9/76

SURVEY

Survey Co-ords:	10 380.00	E	10 401.68	N
Survey bearing:	93°01'	Grid		Magnetic:
Surveyed in by:				Date:
Actual Co-ords:		E		N
R.L. of Collar:	957.83			Inclination of Hole: -55°45'
Picked up by:	A.G.			Date: 16/11/76

SUMMARY

Logged by: R. van den Bogaart

Results: 4.0 - 15.0m, 11.0m @ 0.67% WO_3
37.0 - 48.0m, 11.0m @ 0.54% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 2/10/76 — Date terminated: 14/10/76

Casing:	Size:	NQ
	Depth:	2.0
Core:	Size:	A 17
	Depth:	65.6

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

Extension: Nil

Reason for termination: Entered biotite pyroxene hornfels.

Condition of hole on completion: — Final depth: 65.6
Casing: Pulled
Cemented: No

Bore hole survey: Multishot Camera

Water: Minor

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 400/1

Survey method: Multishot camera
Final depth : 65.6m
Casing depth : 2m

Depth surveyed to: 65m
Date surveyed: 13/10/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
12	93 30'	65 30'	35 00'	-55 00'	9.81	2.87	6.28
24	92 30'	64 30'	35 00'	-55 00'	19.63	5.83	12.50
36	92 30'	64 30'	35 00'	-55 00'	29.45	8.79	18.72
48	92 30'	64 30'	34 45'	-55 15'	39.29	11.77	24.90
60	92 30'	64 30'	33 45'	-56 15'	49.21	14.62	31.02
65	92 30'	64 30'	33 15'	-56 45'	53.40	15.80	33.49

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 400/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.5	2.5	1.78	71
5.5	3.0	2.71	90
7.8	2.3	2.26	98
9.3	1.5	1.45	97
12.3	3.0	2.99	100
15.1	2.8	2.48	89
15.5	0.4	0.52	130
18.5	3.0	3.00	100
20.0	1.5	1.43	95
21.9	1.9	1.72	91
23.3	1.4	1.45	104
26.0	2.7	2.60	96
29.0	3.0	2.94	98
32.0	3.0	2.97	99
35.0	3.0	3.06	102
38.0	3.0	2.94	98
41.0	3.0	3.00	100
44.0	3.0	2.96	99
46.2	2.2	2.34	106
48.7	2.5	2.58	103
51.7	3.0	3.0	100
54.7	3.0	2.97	99
57.7	3.0	2.90	97
60.7	3.0	2.95	98
62.7	2.0	1.82	91
65.6	2.9	2.86	99
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 400/1

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo	COMMENTS
BH 3891	3.0	4.0	1.0	1.0	0.14	<0.01	
2	4.0	5.0	1.0	1.0	0.84	0.04	
3	5.0	6.0	1.0	1.0	1.38	0.08	
4	6.0	7.0	1.0	1.0	0.44	0.02	
5	7.0	8.0	1.0	1.0	0.05	<0.01	4.0 - 15.0m, 11.0m
6	8.0	9.0	1.0	1.0	1.10	0.09	@ 0.67% WO_3
7	9.0	10.0	1.0	1.0	0.39	0.03	
8	10.0	11.0	1.0	1.0	0.46	0.02	
9	11.0	12.0	1.0	1.0	0.52	0.03	
3900	12.0	13.0	1.0	1.0	1.09	0.04	
1	13.0	14.0	1.0	1.0	0.80	0.04	
2	14.0	15.0	1.0	1.0	0.27	<0.01	
3	15.0	16.0	1.0	1.0	<0.01	<0.01	
4	16.0	17.0	1.0	1.0	<0.01	<0.01	
5	17.0	18.0	1.0	1.0	0.10	<0.01	
6	18.0	19.0	1.0	1.0	0.08	<0.01	
7	19.0	20.0	1.0	1.0	<0.01	<0.01	
8	22.0	23.0	1.0	1.0	<0.01	<0.01	
9	23.0	24.0	1.0	1.0	<0.01	<0.01	
3910	24.0	25.0	1.0	1.0	0.26	<0.01	
1	25.0	26.0	1.0	1.0	0.08	<0.01	
2	26.0	27.0	1.0	1.0	0.40	0.02	
3	27.0	28.0	1.0	1.0	0.13	<0.01	
4	28.0	29.0	1.0	1.0	<0.01	<0.01	
5	33.0	34.0	1.0	1.0	0.07	<0.01	
6	34.0	35.0	1.0	1.0	0.68	0.02	
7	35.0	36.0	1.0	1.0	<0.01	<0.01	
8	36.0	37.0	1.0	1.0	0.09	<0.01	
9	37.0	38.0	1.0	1.0	0.51	0.03	
3920	38.0	39.0	1.0	1.0	0.76	0.04	
1	39.0	40.0	1.0	1.0	0.94	0.05	
2	40.0	41.0	1.0	1.0	0.06	<0.01	
3	41.0	42.0	1.0	1.0	0.71	0.03	
4	42.0	43.0	1.0	1.0	0.24	<0.01	
5	43.0	44.0	1.0	1.0	0.07	<0.01	
6	44.0	45.0	1.0	1.0	0.52	0.02	
7	45.0	46.0	1.0	1.0	0.53	0.02	37.0 - 48.0m, 11.0m
8	46.0	47.0	1.0	1.0	1.26	0.06	@ 0.54% WO_3
9	47.0	48.0	1.0	1.0	0.35	0.01	
3930	48.0	49.0	1.0	1.0	0.14	<0.01	
3931	49.0	50.0	1.0	1.0	<0.01	<0.01	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No: BH 400/1

0.0 - 3.64 MARBLE

A greyish-white recrystallised marble showing remnant bedding, and pods of the original unaltered marble (at 2.10m). This unit is barren.

Bedding is at α 46° LCA @ 3.05m.

3.64 - 7.10 GARNET SKARN (BF1 lens)

A brownish-green unit of garnet skarn consist of andradite, with grossularite, pyroxene, pyrite and calcite. Calcite is evenly distributed in the groundmass. Fine grained scheelite occurs throughout this unit, and is expected to reach ore grade.

7.10 - 14.76m MINERALISED BANDED FOOTWALL BEDS:-

A unit consisting of alternate bands of biotite, pyroxene, garnet and calcite hornfels. Garnet - pyroxene bands dominant with in decreasing order of occurrence pyroxene, hiatite and calcite hornfels. Fine to coarse grained scheelite is associated with the garnet-pyroxene rich bands and is expected to reach grade in some areas. The garnet-pyroxene bands contain andradite, grossularite, pyroxene, calcite, epidote, pyrite and minor pyrrhotite and molybdenite. Bedding is at

.76° LCA @ 7.85m
48° " @ 10.87m
54° " @ 11.75m
46° " @ 13.82m

A major fracture (possible fault) is $\simeq$ 53° LCA at 14.76m and forms the contact between the mineralised banded footwall beds and the banded footwall beds described below.

14.76 -19.12 BANDED FOOTWALL BEDS

A mixed unit consisting dominately of pyroxene hornfels, but containing smaller units as follows:-

14.76 - 16.37 Pyroxene Hornfels:

A greyish-green unit of pyroxene hornfels with minor bands of biotite and has a variable carbonate content in the groundmass.

16.37 - 16.90 Biotite Hornfels:-

A purple-brown unit of banded biotie with some minor patches of pyroxene.

16.90 - 17.32 Marble:

A recrystallised greenish marble rich in pyroxene and grossularite garnet. The unit contains minor scheelite.

17.32 - 18.74 Pyroxene Garnet Hornfels:

A unit of pyroxene garnet hornfels varying in pyroxene, garnet and calcite content. Scheelite mineralisaton is erratic but may reach ore grade.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/1

18.74 - 19.12 Biotite Pyroxene Hornfels:-
A banded unit of biotite pyroxene hornfels. The unit is devoid of scheelite mineralisation.
Bedding is at:-

51	LCA	@	16.90m
66	LCA	@	17.32m

19.12 - 22.35 BIOTITE HORNFELS

A purple brown unit of Biotite Hornfels with minor bands of pyroxene. At 20.35m the banding has been severely disturbed. This unit is barren of scheelite mineralisation.

22.35 - 36.95 BANDED FOOTWALL BEDS

A unit consisting of alternating bands of biotite, pyroxene, biotite pyroxene, pyroxene garnetand calcite hornfels. In the first six metres pyroxene garnet hornfels bands dominate, after which the unit becomes richer in calcite and biotite pyroxene hornfels bands. Scheelite mineralisation is associated with the pyroxene garnet rich areas, some of which may reach ore grade.
Bedding is at:-

43	LCA	@	23.94m
54	"	@	25.96m
50	"	@	27.98m
18	"	@	29.30m
62	"	@	32.14m
67	"	@	34.80m

36.95 - 48.16 MINERALISED BANDED FOOTWALL BEDS.

A unit consisting of alternate bands of biotite, pyroxene and pyroxene garnet hornfels. Pyroxene garnet hornfels dominates. This unit grades into the units described above and below with a decrease in pyroxene-garnet content. The unit contains fine to medium grained scheelite in the pyroxene-garnet rich bands, same of which is expected to reach ore grade.
Bedding is at:-

64	LCA	@	42.40m
67	LCA	@	47.24m

48.46 - 53.58 BANDED FOOTWALL BEDS

A unit consisting of alternate bands of biotite, pyroxene-garnet, and calcite hornfels. Calcite hornfels dominates. The unit contains only minor scheelite associated with the garnet rich bands. Bedding has been disturbed and some pod development has occurred.
Bedding is at:-

75	LCA	@	57.8m
65	LCA	@	52.87m
74	LCA	@	53.58m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 400/1

A puggy wollastonite band 0.25cm thick occurs at 51.25m.

53.58 - 65.6E.O.H. Disturbed Biotite Pyroxene Hornfels:-

An extremely disturbed unit of biotite pyroxene hornfels. The unit is barren. A major fracture or possible fault 20 LCA occurs at 59.36m. Banding in this unit shows well developed kinks and some banding has been disrupted.

Banding is at:-

≈ 30°	LCA	@	56.57m
≈ 41°	LCA	@	58.43m
≈ 18°	LCA	@	61.30m

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 400/1

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 3900	1.09		BH 2172	1.32		BH 2173	1.36		BH 2174	1.11		
3910	0.26		2175	0.36		2176	0.46		2177	0.54		
3920	0.76		2178	0.70		2179	0.85		2180	0.72		
3930	0.14		2181	0.18		2182	0.27		2183	0.20		


DDH BH400/1
0·0 - 15·74 m


DDH BH400/1
15·74 - 29·00 m


DDH BH400/1
29·00 - 43·86 m


DDH BH400/1
43·86 - 58·13 m


DDH BH 400/1
29.00 - 43.85 m.


DDH BH400/1
58·13 - 65·60 m.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 375/11

PLANNING

PROPOSER: B. Crossley & T. Potter DEPTH: 15 m max.

LOCATION: K39 Pump Cuddy off Decline

PURPOSE OF HOLE: To Locate Fault as Intersect with Rock Bolting in Main Decline at 375 N

PROPOSED CO-ORDS: 40 340 E 10 388 N

INCLINATION: +70° (approx.)

BEARING: 180° °GRID °MAG

TARGET: E N

DEPTH:

CHECKED BY: DATE:

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 173° 47' °GRID °MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40 333.8 E 10 387.7 N

R.L. OF COLLAR: 877.2

INCLINATION OF HOLE: 68° 54'

PICKED UP BY: R. Howman DATE: 18/11/80

SUMMARY

LOGGED BY: T. F. POTTER.

RESULTS: No FAULT.

DRILLING

DATE COMMENCED: DATE TERMINATED:

DRILLER/CONTRACTOR:

CASING: SIZE:
DEPTH:

CORE: SIZE:
DEPTH:

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH:

REASON FOR TERMINATION:

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 375/11

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.40	3.4	3.4	100
3.4 - 4.9	1.5	1.5	100
4.9 - 7.0	2.1	2.1	100
7.0 - 9.0	2.0	2.0	100
9.0 - 10.2	1.2	1.2	100
10.2 - 11.2	1.0	1.0	100
11.2 - 14.5	3.3	3.3	100

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 375/11

0.0 - 2.4 m BIOTITE PYROXENE HORNFELS

With large calcite pods some show minor garnet not mineralised.

Bedding 70° to core axis.

2.4 - 14.5 BIOTITE HORNFELS

Biotite hornfels with very rare blobs of pyroxene.
10.66 - 10.70 broken core the core in general is very solid with joints greater than 10 cm apart sticks of core over 20 cm long is common.

EOH 14.5 m

NOTE This hole was planned to intersect the 0.5 to 1 m pug zone overlying the main decline as inferred by the drilling of the rock-bolt holes. N42 has shown a bedded pug-fault zone and because the pug was intersected in "most of the 60" rock-bolt holes in the Decline it was assumed likewise. However this hole shows this not to be so.


DDH BH 375/11
E.O.H
0.00 — 14.50 m.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 375/10

PLANNING

PROPOSER: T. F. Potter — DEPTH: 20 m

LOCATION: K 39 Pump Cuddy off Main Decline

PURPOSE OF HOLE: Confirm Location of Western Fault

PROPOSED CO-ORDS: 40 337 E 10 388 N

INCLINATION: -30^{o}

BEARING: 270^{o} ^{o}GRID ^{o}MAG

TARGET: E N

DEPTH:

CHECKED BY: S. G. Brown — DATE: 10/11/80

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 273^{o} 40' ^{o}GRID ^{o}MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40 332.0 E 10 388.4 N

R.L. OF COLLAR: 873.6

INCLINATION OF HOLE: -28^{o} 40'

PICKED UP BY: R. Howman — DATE: 12/11/80

SUMMARY

LOGGED BY: T. F. Potter

RESULTS: 19 - 22 m 3 m @ 2.08%

DRILLING

DATE COMMENCED: 12/11/80 DATE TERMINATED: 14/11/80

DRILLER/CONTRACTOR: K.I.S

CASING: SIZE:
DEPTH:

CORE: SIZE: 46TT
DEPTH: 28.3

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 28.3 m

REASON FOR TERMINATION: Granite

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 375/10

Surveyed method: Single shot
Final depth: 28.30 m
Casing depth: -

Depth surveyed to: 26.60 m
Date surveyed: 13/11/80
Surveyed by: R. Drake
Checked by:

DOWN HOLE

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		S	W
13.0	272°	244°	59° 45'	-30° 15'	6.61	4.91	10.06
26.6	272°	244°	59° 45'	-30° 15'	13.52	10.04	20.29

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 375/10

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.20 m	2.2	2.2	100
2.2 - 3.4	1.2	1.2	100
3.4 - 6.0	2.6	2.6	100
6.0 - 9.0	3.0	3.0	100
9.0 - 12.0	3.0	3.0	100
12.0 - 15.0	3.0	3.0	100
15.0 - 18.0	3.0	3.0	100
18.0 - 20.6	2.6	2.6	100
20.6 - 23.6	3.0	3.0	100
23.6 - 26.6	3.0	3. 0	100
26.6 - 28.3	1.7	1.7	100

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 375/10

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 - 3.85		3.85			2.26	59		
3.85 - 15.00		11.15			7.5	67		
15.0 - 19.5		4.5			3.37	75		
19.5 - 21.43		1.93			1.2	62		
21.43 - 26.2		4.77			3.15	66		
26.2 - 28.3		2.1			0.57	27		

FURTHER DATA & REMARKS

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

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 375/10

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 8503	18	19	1.0	1.0	0.03			
04	19	20	"	"	0.54			
05	20	21	"	"	2.40			
06	21	22	"	"	3.30			

SPECIFIC GRAVITY

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

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 375/10

0.0 - 3.85 m BIOTITE PYROXENE HORNFELS (PODDED)

0.0 - 2.0 m proxene rich unit with occassional pods of calcite.
2.0 - 3.4 m biotite rich unit
3.4 - 3.85 m pyroxene rich unit.

3.85 - 15.00 PYROXENE GARNET HORNFELS

Lithology - not the typical podded unit as the pods are scarce and are diffused. Unit is reasonably rich in garnet.
Structure - 7.1 - 7.7 leached area with calcite & breccia 7.36 to 7.5 m
8.15 - 8.18 minor shear 90° to axis
9.25 - 10.80 core is leached and contains 4 shear zones. Maybe the Western Fault
9.3 - 9.34 moderate shear zone 45° to core axis.
9.9 - 9.94 calcite and crud, broken zone.
10.15 - 10.20 shows moderate shearing with calcite vein at 60°
10.25 - 10.29 moderate shear with some biotite.
10.75 2 one cm calcite veins. 50° & 30° to core axis.
Mineralisation - the pyroxene garnet hornfels contains the odd scheelite crystal but overall the grade would be less than 0.05%.
At 8.3 m a joint at 30° is bordered by scheelite crystals up to 2 mm.

15.00 - 19.50 GARNET PYROXENE HORNFELS

Very fine grained and rather rich in pyroxene. Contains no pods of calcite. Mineralisation is shown as very sparse scheelite crystal or aggregate but overall well below ore grade.
16.0 2 cm calcite vein 30° to axis.

19.50 - 21.43 QUARTZ - BIOTITE - GARNET - HORNFELS

Solid quartz 19.5 - 19.62 and 21.0 to 21.43 m.
19.62 - 21.0 contains strong scheelite.

21.43 - 26.20 PYROXENE QUARTZ GARNET

Fine grained rock with silicious zones.

Lithology - 23.9 - 24.35 the unit is rich in quartz and felspar.
24.35 - 26.2 contains areas showing felspar development with iron-staining becoming moderate towards 26.2 m
Structure - 25.8 - 26.2 strongly leached and partly sheared with 5 cm crud at 26.0 m

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 375/10

26.20 - 27.60 m GRANITISED MINE SERIES

Contains felspar and quartz crystals but is dark coloured due to biotite and garnets?
Not mineralised.

27.60 - 28.10 PYROXENE GARNET HORNFELS

Grading from the granitised form to a fine grained form with a corresponding decrease in iron-staining.
No mineralisation.

28.10 - 28.30 PYROXENE CALCITE HORNFELS

No mineralisation.

EOH


DDH BH 375/10
0.00 — 15.00 m.


DDH BH 375/10
15.00 — 28.30 m.
E.O.H.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 375/9

PLANNING

PROPOSER: R. E. Sandell Davies DEPTH: 80 m

LOCATION: L 41

PURPOSE OF HOLE: Define C Lens Adjacent to Granite

PROPOSED CO-ORDS: 40311 E 10377 N

INCLINATION: -85°

BEARING: 270° °GRID °MAG

TARGET: E N

DEPTH: 70 m

CHECKED BY: S. G. Brown DATE: 16/10/79

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 284° 47' °GRID °MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40310.0 E 10376.8 N

R.L. OF COLLAR: R+932.6

INCLINATION OF HOLE: -84° 27'

PICKED UP BY: R. Howman DATE: 10/1/80

SUMMARY

LOGGED BY: R. E. Sandell Davies

RESULTS: No Economic Mineralisation

DRILLING

DATE COMMENCED: 3/1/80 DATE TERMINATED: 22/1/80

DRILLER/CONTRACTOR: K.I.S./ Joe Penna

CASING: SIZE:
DEPTH:

CORE: SIZE: BQ
DEPTH:

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 80 m

REASON FOR TERMINATION: In granite

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY: Multishot

WATER:

COMMENTS ON DRILLING CONDITIONS: Good

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 375/9

Surveyed method: Multishot
Final depth: 80.00 m
Casing depth: 1 m

Depth surveyed to: 80.00 m
Date surveyed: 22/1/80
Surveyed by: R. Drake
Checked by: L. Denby

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		N	W
16.00	288°	260°	6°	-74°	15.91	.52	1.59
34.00	288°	260°	6° 15'	-73° 45'	33.80	1.13	3.45
52.00	291°	263°	7°	-73°	51.67	1.91	5.49
64.00	291°	263°	7°	-73°	63.58	2.43	6.85
80.00	291°	263°	7°	-73°	79.46	3.13	8.67

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 375/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 4.1 m	4.1	3.7	90
4.1 - 6.1	2.0	2.0	100
6.1 - 9.1	3.0	3.0	100
9.1 - 12.1	3.0	3.0	100
12.1 - 15.1	3.0	3.0	100
15.1 - 18.1	3.0	3.0	100
18.1 - 21.1	3.0	3.0	100
21.1 - 23.6	2.5	2.4	96
23.6 - 26.6	3.0	3.0	100
26.6 - 29.6	3.0	3.0	100
29.6 - 32.6	3.0	3.0	100
32.6 - 34.4	1.8	1.7	94
34.4 - 36.5	2.1	2.1	100
36.5 - 38.6	2.1	2.0	95
38.6 - 41.4	2.8	2.8	100
41.4 - 43.2	1.8	1.7	94
43.2 - 45.0	1.8	1.8	100
45.0 - 47.7	2.7	2.7	100
47.7 - 50.7	3.0	3.0	100
50.7 - 52.2	1.8	1.5	83
52.5 - 54.4	1.9	1.8	95
54.4 - 54.9	0.5	0.4	80
54.9 - 56.1	1.2	1.0	83
56.1 - 57.4	1.3	1.3	100
57.4 - 59.6	2.2	2.2	100
59.6 - 61.7	2.1	2.1	100
61.7 - 64.5	2.8	2.8	100
64.5 - 65.3	0.8	0.7	88
65.3 - 65.7	0.4	0.3	75
65.7 - 68.0	2.3	2.2	96
68.0 - 68.6	0.7	0.7	100
68.7 - 71.7	3.0	2.9	97
71.7 - 73.2	1.5	1.5	100
73.2 - 76.2	3.0	2.9	97
76.2 - 78.7	2.5	2.5	100
78.7 - 80.0	1.3	1.3	100
EOH 80.0 m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 375/9

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 7326	0	1	1.0	1.0	0.24	0.02		
27	1	2	"	"	1.01	0.04		
28	8	9	"	"	<0.01	0.02		
29	9	10	"	"	<0.01	0.01		
30	16	17	"	"	<0.01	0.01		
31	17	18	"	"	0.22	0.03		
32	18	19	"	"	<0.01	0.02		
33	19	20	"	"	<0.01	0.02		
34	20	21	"	"	<0.01	0.02		
35	21	22	"	"	0.09	0.02		
36	22	23	"	"	<0.01	002		
37	61	62	"	"	<0.01	0.03		
38	62	63	"	"	<0.01	0.02		
39	63	64	"	"	0.03	0.02		
40	64	65	"	"	<0.01	0.01		
41	65	66	"	"	0.01	0.03		
42	66	67	"	"	0.08	0.02		
43	67	68	"	"	0.01	0.01		
44	68	69	"	"	0.12	0.02		
45	69	70	"	"	<0.01	0.02		
46	70	71	"	"	0.01	0.01		
47	71	72	"	"	<0.01	0.01		
48	72	73	"	"	<0.01	0.01		
49	73	74	"	"	<0.01	0.03		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 375/9

0.0 - 30.66 m **B LENS MARBLE**

A light grey, fresh well bedded marble. Mineralisation is present from: 1.0 - 2.0 m associated with a small fracture, @ 8.3 m as disseminated grains,

Intermitantly from 15.0 - 23.0 m associated with fracturing of the marble. The marble is quite disturbed @ 18.0 - 21.0 m, with pyroxene hornfels present from 17.5 - 18.4 m. @ 23.5 m is a small brecciated zone 5 cm wide of rubbly clay.

Bedding	is	52°	to LCA @ 3 m
Bedding		55°	7 m
Bedding		52°	10.4 m
Bedding		47°	14.7 m
Bedding		45°	19.0 m
Bedding		57°	22.5 m
Bedding		50	25.5 m
Bedding		60	29.5

30.66 - 33.1 **B LENS MARBLE**

Fresh grey marble, commonly disturbed, iron stained @ 31 m ; possible bedding 70° to LCA @ 31.7 m.

33.1 - 60.14 **BIOTITE HORNFELS**

Massive, black biotite hornfels. Thin (1 cm) interbeds of pyroxene hornfels present from 33.1 - 36.4 m

Bedding 64° to LCA @ 37 m

Some bedding present within the biotite hornfels @ 43.0 - 50.0 m

Bedding 58° to LCA @ 45 m.

The unit starts to become slightly podded from about 53 m. Pods are of pyroxene hornfels and generally about 1 cm diameter. From 54.4 - 56.0 m is a zone of brecciated and broken core, fragments recemented with quartz and calcite.

Bedding is 52° to LCA @ 59.3 m

60.14 - 61.7 **BIOTITE HORNFELS**

As above, black fine grained metasediments, with a 15 cm aplite from 61.4 m.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 375/9

61.7 - 73.35 PYROXENE GARNET HORNFELS

There is an abrubt change from the biotite hornfels to pyroxene garnet hornfels wich has a podded texture for the first 1.3 m then becomes a garnet skarn. However, this only carries poor, probably subgrade, scheelite. From 64.8 - 66.0 m the core is broken into pieces of about 5 cm. An aplite 60 cm thick occurs from 65.2 m. Towards the base, garnet hornfels becomes less dominant and more biotite hornfels with pyroxene hornfels and marble pods are seen.

Aplite is present from 73 m.

73.35 - 80.0 ADAMELLITE

Typical biotite hornfels adamellite, pink and coarse grained. It is unmineralised

EOH 80.0 m


DDH BH 375/9
0.00 — 15.64 m.
DDH BH 375/9
15.64 — 30.66 m.
DDH BH 375/9
30.66 — 45.53 m.
DDH BH 375/9
45.53 — 60.15 m.


DDH BH 375/9
60.15 — 73.35 m.


DDH BH 375/9
73.35 — 80.00 m.
E.O.H

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 375/8

PLANNING

PROPOSER: R. E. Sandell Davies DEPTH: 100 m

LOCATION: L41

PURPOSE OF HOLE: Define C lens

PROPOSED CO-ORDS: 40311 E 10377 N

INCLINATION: -78°

BEARING: 090 °GRID °MAG

TARGET: E N

DEPTH: 70 m

CHECKED BY: S. G. Brown DATE: 16/10/79

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 81° 15' °GRID °MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40312.3 E 10377.6 N

R.L. OF COLLAR: 932.4

INCLINATION OF HOLE: -76° 46'

PICKED UP BY: B. Lennon DATE: 26/10/79

SUMMARY

LOGGED BY: R. E. Sandell Davies

RESULTS: 72 - 91 m, 19 m @ 0.65% WO_3

DRILLING

DATE COMMENCED: 25/10/79 DATE TERMINATED: 13/11/79

DRILLER/CONTRACTOR: K.I.S.

CASING: SIZE:
DEPTH:

CORE: SIZE: BQ
DEPTH:

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 96 m

REASON FOR TERMINATION: Finished in Granite

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY: Mulitshot

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 375/8

Surveyed method: Multishot
Final depth: 96.00 m
Casing depth: 1.00 m

Depth surveyed to: 96.00 m
Date surveyed: 13/11/79
Surveyed by: L. Denby
Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		N	E
13.00	80°	52°	12° 30'	-77° 30'	12.69	.49	2.77
34.00	78°	50°	12°	-78°	33.23	1.40	4.17
49.00	78°	50°	12°	-78°	47.90	2.05	6.22
70.00	77°	49°	11° 30'	-78° 30'	68.48	2.99	9.21
83.00	77°	49°	11° 15'	-78° 45'	81.23	3.56	12.77
96.00	77°	49°	11°	-79°	93.99	4.12	16.89

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 375/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0. - 2.8 m	2.8	2.6	93
2.8 - 5.8	3.0	3.0	100
5.8 - 8.8	3.0	3.0	100
8.8 - 11.8	2.0	2.0	100
11.8 - 14.7	2.9	2.9	100
14.7 - 16.8	2.1	2.1	100
16.8 - 19.7	2.9	2.6	90
19.7 - 21.3	1.6	1.6	100
21.3 - 23.5	2.2	2.2	100
23.5 - 26.3	2.8	2.8	100
26.3 - 28.6	2.3	2.1	91
28.6 - 31.2	2.6	2.6	100
31.2 - 33.2	2.0	2.1	105
33.2 - 35.9	2.7	2.2	81
35.9 - 37.0	1.1	1.1	100
37.0 - 38.4	1.4	1.4	100
38.4 - 40.1	1.7	1.7	100
40.1 - 42.9	2.8	2.8	100
42.9 - 45.8	2.9	2.9	100
45.8 - 48.8	3.0	3.0	100
48.8 - 50.8	2.0	2.0	100
50.8 - 53.8	3.0	3.0	100
53.8 - 55.3	1.5	1.5	100
55.3 - 57.8	2.5	2.3	92
57.8 - 59.1	1,3	1.2	92
59.1 - 60.0	0.9	0.8	89
60.0 - 63.0	3.0	2.9	97
63.0 - 63.9	0.9	0.8	89
63.9 - 66.0	2.1	2.1	100
66.0 - 69.0	3.0	3.0	100
69.0 - 72.0	3.0	3.0	100
72.0 - 74.8	2.8	2.8	100
74.8 - 77.4	2.6	2.6	100
77.4 - 80.4	3.0	3.0	100
80.4 - 83.4	3.0	3.0	100
83.4 - 86.3	2.9	2.9	100
86.3 - 87.7	1.4	1.2	86
87.7 - 90.4	2.7	2.4	89
90.4 - 91.6	1.2	1.2	100
91.6 - 92.2	0.6	0.6	100
92.2 - 93.5	1.3	1.3	100
93.5 - 96.0	2.5	2.5	100
EOH 96.0 m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 375/8

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 7259	0	1	1.0	1.0	2.52	0.06		
60	1	2	"	"	0.18	0.01		
62	60	61	"	"	0.10	0.01		
63	61	62	"	"	0.04	<0.01		
64	62	63	"	"	0.05	<0.01		
65	63	64	"	"	0.10	0.01		
66	64	65	"	"	0.03	<0.01		
67	65	66	"	"	<0.01	<0.01		
68	66	67	"	"	0.13	<0.01		
69	67	68	"	"	0.01	<0.01		
70	68	69	"	"	0.07	<0.01		
71	69	70	"	"	0.03	<0.01		
72	70	71	"	"	0.02	<0.01		
73	71	72	"	"	0.22	0.01		
74	72	73	"	"	0.88	0.02		
75	73	74	"	"	0.31	<0.01		
76	74	75	"	"	0.31	<0.01		
77	75	76	"	"	0.25	<0.01		
78	76	77	"	"	0.87	0.01		
79	77	78	"	"	0.69	0.01		
80	78	79	"	"	0.87	0.01		
81	79	80	"	"	1.72	0.02		
82	80	81	"	"	0.45	0.01		
83	81	82	"	"	0.52	<0.01		
84	82	83	"	"	0.05	<0.01		
85	83	84	"	"	0.30	<0.01		
86	84	85	"	"	0.93	0.01		
87	85	86	"	"	0.15	0.01		
88	86	87	"	"	0.30	0.01		
89	87	88	"	"	1.87	0.04		
90	88	89	"	"	0.95	0.02		
91	89	90	"	"	0.46	<0.01		
92	90	91	"	"	0.40	0.01		
93	91	92	"	"	0.02	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 375/8

0.0 - 1.25 m **GARNET SKARN**

Khaki brown/green andradite garnet skarn in replaced marble. Typical B Lens grade is probably about 0.7% WO_3.

7.25 - 32.4 **MARBLE**

This is B Lens marble, light grey colour, moderate grain size and well bedded. Minor faulting is suspected @

6.8 m
11.7 - 12.0 m
19.6 - 19.7 m

From 28.8 - 29.8 m is a region of interbedded marble and biotite hornfels.

Bedding is disturbed @ 20.1 m but otherwise it is regular.

Bedding	50°	@ 4.9 m
	47°	9.2 m
	60°	13.5 m
	40°	17.8 m
	45°	29.7 m

The based 15 cm of the unit is pyroxene rich.

32.4 - 58.76 **BIOTITE HORNFELS**

This unit is mostly massive, dark grey/black and fine grained. In some places thin interbeds are present and small pods in others. From 33.2 - 34.4 m a number of thin (1 - 3 cm) beds of pyroxene hornfels occur. From 45.8 m to the end of the unit small pods of pyroxene hornfels and occassional marble are intermitantly present. The pods are 0.5 - 3 cm in diameter.

Bedding	is	74°	@ 33.5 m
		72°	42.8 m
		55°	48.6 m

58.76 - 60.6 **FAULT ZONE**

Sections of whole core are disturbed and the remainder consists of rubble some with iron staining and clay and others with shear zones lined with Talc.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 375/8

60.6 - 71.5 PYROXENE GARNET HORNFELS

This unit does not appear to be typical pyroxene garnet hornfels. Since it is more homogeneous and has few pods. However the matrix is essentially pyroxene hornfels and garnet and scheelite are also present. Grade is probably 0.4 - 0.6% WO_3.

From 63.25 - 63.9 m the core is brecciated and has clay with it. Some of the breccia is partly recemented by calcite. This is probably a small fault.

The region from 69.0 - 72.35 m is one of extensive deformation of the core. 69.0 - 69.8 m is soft, friable, and leached. 70.2 - 71.5 m is disturbed and rehealed, together with some areas of soft, friable, leached core.

71.5 - 82.4 GARNET SKARN

This core is mostly homogeneous andradite/scheelite skarn, probably about 0.8% WO_3. Small clay beds are present @ 72.22 - 72.35 m and @ 77.4 - 77.5 m.

82.4 - 91.9 BANDED FOOTWALL BEDS/(MINERALISED)

Typical well bedded Banded Footwall Beds, lithologies are garnet hornfels, biotite hornfels, pyroxene hornfels and rare Marble. Garnet hornfels beds are up to 50 cm thick, but the rest are commonly 5 - 10 cm thick.

Average grade is proably 0.6% WO_3.

Bedding is 60^o to LCA @ 85 m
36^o 90.3 m

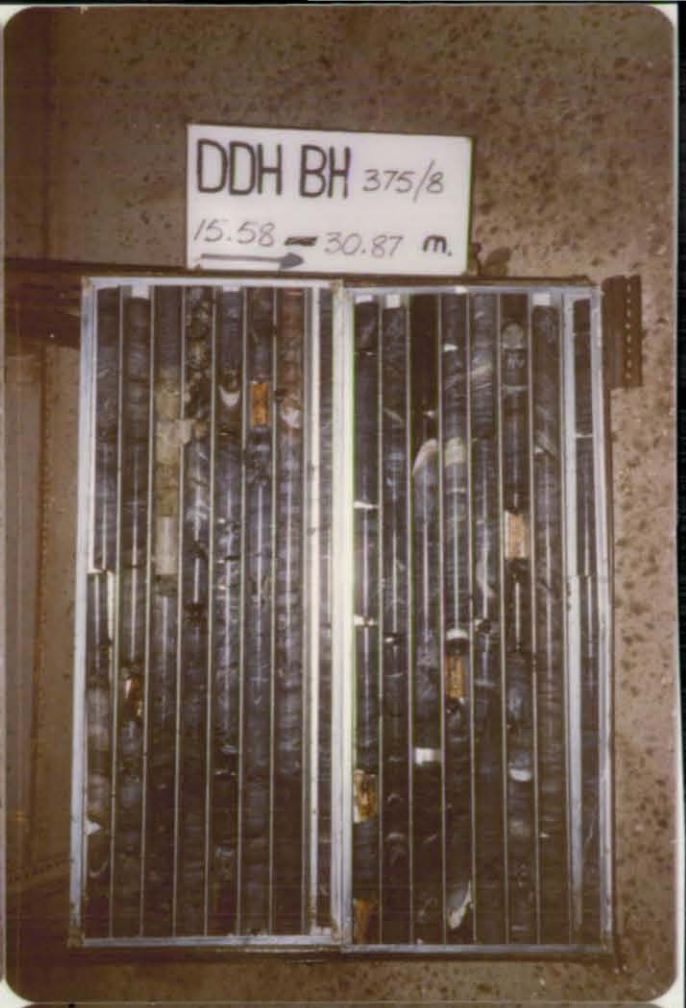
Rubbly core from 86.4 - 87.4 plus poor recovery and change in dip indicates faulting here.

91.9 - 96.0 ADAMELLITE

Typical coarse grained, pink Bold Head Adamellites.

EOH 96.0 m


DDH BH 375/8
0.00 — 15.58 m.


DDH BH 375/8
15.58 — 30.87 m.


DDH BH 375/8
30.87 — 45.80 m.


DDH BH 375/8
45.80 — 60.60 m.

GEOLOGY - KING ISLAND SCHEELITE

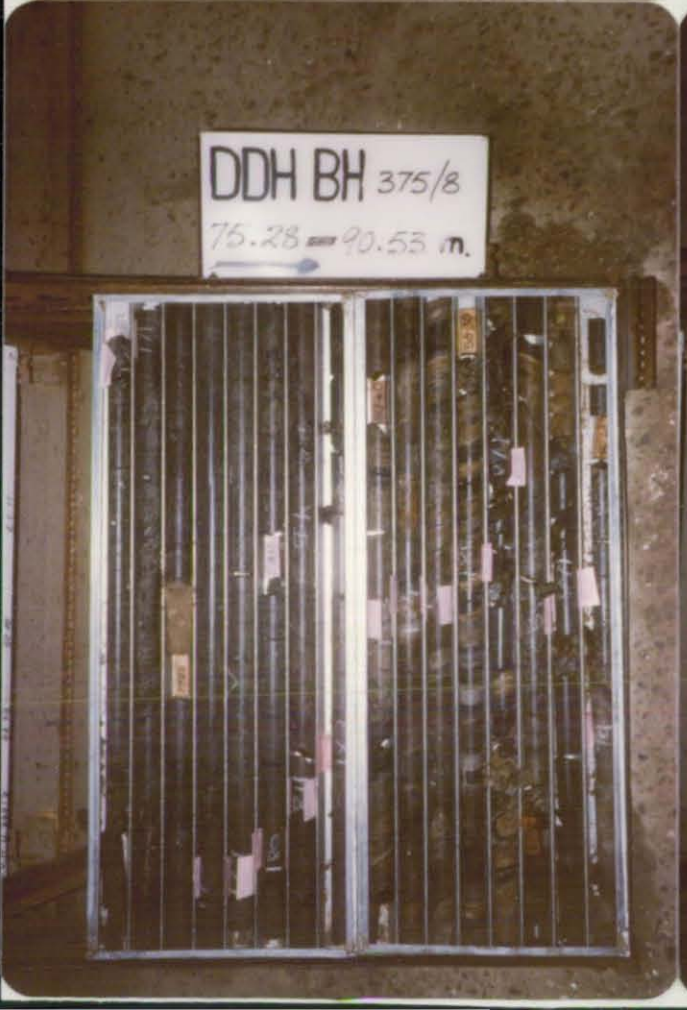
CHECK ASSAY DATA

D.D.H. No. BH 375/8

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
7259	2.52	0.06	8321	2.70	<0.01	8322	2.56		8323	2.93		
7270	0.07	<0.01	8324	0.10	<0.01	8325	0.105		8326	0.11		
7280	0.87	0.01	8327	0.83	<0.01	8328	1.03		8329	0.97		
7291	0.46	<0.01	8330	0.59	<0.01	8331	0.570		8332	0.49		


DDH BH 375/8
60.60 — 75.27 m.


DDH BH 375/8
60.60 — 75.28 m.


DDH BH 375/8
75.28 — 90.53 m.


DDH BH 375/8
90.53 — 96.00 m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 375/7

PLANNING

Proposer: S.G. Brown — Depth: 110m

Location: Q42 drive

Purpose of hole: To test BF_1 and BF_2 and locate No.2 Fault

Co-ordinates: 40392.5 E 10375.0 N
Inclination: -84°
Bearing 090° Grid — Magnetic:
Target: — Target Depth:
E N
Approved by: M.C. Rogers — Date: 23/6/77

SURVEY

Survey Co-ords: E N
Survey bearing: 80° 17' Grid — Magnetic:
Surveyed in by: — Date:
Actual Co-ords: 40392.66 E 10375.33 N
R.L. of Collar: 951.47 — Inclination of Hole: -83° 46'
Picked up by: A.G. — Date: 18/8/77

SUMMARY

Logged by: S.G. Brown
Results: 8.0m - 15.0m, 7.0m @ 0.82% WO_3
42.0m - 46.0m, 4.0m @ 0.42% WO_3
88.0m - 92.0m, 4.0m @ 0.66% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 1/8/77 — Date terminated: 25/8/77

Casing: Size: BQ
Depth: 1.0
Core: Size: 46TT
Depth: 110.40

Wedge Runoff:
Wedge placed: No — Depth:
Proposed by: — Approved by:
Reason:

Extension: No
Reason for termination: 110.40

Condition of hole on completion: — Final depth: 110.40
Casing: pulled
Cemented: no
Bore hole survey: multishot
Water: minor

Comments on drilling conditions: good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 375/7

Survey method: Multishot

Final depth : 110.40m

Casing depth : 1.0m

Depth surveyed to: 110.40

Date surveyed: 25/8/77

Surveyed by : L.D.

Checked by : G.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
9.0	063°	N35° 00'E	6° 45'	-83° 15'	8.94	0.87	0.61
18.0	069°	N41° 00'E	6° 45'	-83° 15'	17.88	1.67	1.31
36.0	067°	N39° 00'E	7° 00'	-83°	35.75	3.37	2.69
54.0	066°	N38° 00'E	6° 15'	-83° 45'	53.64	4.91	3.90
63.0	065°	N37° 00'E	5° 15'	-84° 45'	62.60	5.56	4.39
72.0	063°	N35° 00'E	5° 15'	-84° 45'	71.56	6.23	4.86
81.0	058°	N30° 00'E	5° 00'	-85° 00'	80.53	6.91	5.25
90.0	060° 15'	N32° 15'E	5° 00'	-85° 00'	89.50	7.57	5.67
99.0	062°	N34° 00'E	5° 00'	-85° 00'	98.47	8.22	6.11
110.4	056° 45'	N28° 45'E	4° 45'	-85° 15'	109.83	9.04	6.56

9.04
- 0.33
8.71 N.S.

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 375/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.60	3.60	3.24	
6.60	3.00	2.93	98
9.60	3.00	2.97	99
12.60	3.00	3.00	100
15.60	3.00	3.02	101
18.60	3.00	2.85	95
21.60	3.00	3.00	100
24.60	3.00	3.21	107
27.60	3.00	2.97	99
30.60	3.00	2.95	98
33.60	3.00	2.92	97
36.60	3.00	2.91	97
39.60	3.00	3.03	101
42.60	3.00	2.84	95
45.60	3.00	2.75	92
48.60	3.00	2.65	88
51.60	3.00	2.93	98
54.60	3/00	2.91	97
57.60	3.00	2.90	97
60.60	3.00	3.25	108
63.60	3.00	2.92	97
66.0	2.40	2.39	100
68.50	2.50	1.96	78
70.0	1.50	1.61	107
71.20	1.20	1.14	95
73.20	3.20	0.87	27
75.0	1.80	0.59	33
77.0	2.00	1.84	92
80.0	3.00	2.40	80
82.10	2.10	2.03	97
83.20	1.10	1.05	95
84.10	0.90	0.79	88
85.0	0.90	0.89	99
86.60	1.60	1.63	102
89.60	3.00	2.93	98
91.10	1.50	1.45	97
94.00	2.90	2.92	101
96.00	2.00	1.73	87
99.0	3.00	2.95	98
102.00	3.00	2.99	100
104.50	2.50	2.36	94
107.50	3.00	2.92	97
110.40	2.90	2.83	98
EOH			

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 375/7

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH5020	0.0	1.0	1.0	0.61	0.01	0.01	
21	1.0	2.0	1.0	1.0	0.01	0.01	
22	2.0	3.0	1.0	1.0	0.10	0.01	
23	3.0	4.0	1.0	1.0	0.01	0.01	
BH5024	6.0	7.0	1.0	1.0	0.01	0.01	
25	7.0	8.0	1.0	1.0	0.05	0.26	
26	8.0	9.0	1.0	1.0	0.62	0.11	8.0 - 15.0m
27	9.0	10.0	1.0	1.0	1.22	0.07	7.0m @ 0.82% WO_3
28	10.0	11.0	1.0	1.0	0.88	0.06	
29	11.0	12.0	1.0	1.0	1.22	0.07	
30	12.0	13.0	1.0	1.0	0.45	0.03	
31	13.0	14.0	1.0	1.0	0.91	0.08	
32	14.0	15.0	1.0	1.0	0.41	0.06	
33	15.0	16.0	1.0	1.0	0.23	0.01	
34	16.0	17.0	1.0	1.0	0.14	0.01	
35	17.0	18.0	1.0	1.0	0.08	0.01	
36	18.0	19.0	1.0	1.0	0.01	0.01	
37	19.0	20.0	1.0	1.0	0.24	0.01	
38	20.0	21.0	1.0	1.0	0.41	0.03	
39	21.0	22.0	1.0	1.0	0.24	0.01	
40.0	22.0	23.0	1.0	1.0	0.19	0.01	
41	23.0	24.0	1.0	1.0	0.02	0.01	
42	24.0	25.0	1.0	1.0	0.22	0.01	
43	25.0	26.0	1.0	1.0	0.09	0.01	
44	26.0	27.0	1.0	1.0	0.54	0.05	
45	27.0	28.0	1.0	1.0	0.01	0.04	
46	28.0	29.0	1.0	1.0	0.16	0.01	
47	29.0	30.0	1.0	1.0	0.01	0.01	
BH5048	33.5	34.5	1.0	1.0	0.01	0.01	
49	34.5	35.5	1.0	1.0	0.19	0.01	
50	35.5	36.5	1.0	1.0	0.43	0.02	
BH5051	38.0	39.0	1.0	1.0	0.42	0.03	
52	39.0	40.00	1.0	1.0	0.01	0.01	
53	40.0	41.0	1.0	1.0	0.01	0.01	
54	41.0	42.0	1.0	1.0	0.12	0.01	
55	42.0	43.0	1.0	1.0	0.50	0.03	
56	43.0	44.0	1.0	1.0	0.56	0.04	42.0 - 46.0m
57	44.0	45.0	1.0	1.0	0.25	0.01	4.0m @ 0.42% WO_3

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 375/7

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH5058	45.0	46.0	1.0	1.0	0.36	0.03		
59	46.0	47.0	1.0	1.0	0.01	0.01		
BH5060	59.0	60.0	1.0	1.0	0.34	0.05		
BH5061	83.0	84.0	1.0	1.0	0.01	0.01		
62	84.0	85.0	1.0	1.0	0.27	0.01		
63	85.0	86.0	1.0	1.0	0.19	0.01		
64	86.0	87.0	1.0	1.0	0.19	0.01		
65	87.0	88.0	1.0	1.0	0.19	0.01		
66	88.0	89.0	1.0	1.0	0.74	0.03		
67	89.0	90.0	1.0	1.0	0.17	0.01	88.0 - 92.0m	
68	90.0	91.0	1.0	1.0	0.40	0.02	4.0m @ 0.66% WO_3	
69	91.0	92.0	1.0	1.0	1.31	0.06		
70	92.0	93.0	1.0	1.0	0.01	0.01		
BH5071	98.0	99.0	1.0	1.0	0.01	0.01		
72	99.0	100.0	1.0	1.0	0.13	0.01		
73	100.0	101.0	1.0	1.0	0.07	0.01		
74	101.0	102.0	1.0	1.0	0.01	0.01		
75	102.0	103.0	1.0	1.0	0.01	0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH375/7

0.0 - 3.11m — PYROXENE GARNET SKARN

A fine grained pyroxene garnet skarn in which the garnet is dominant.

Some calcite is present both in the ground mass and as irregular pods.

Scheelite mineralisation is present through out.

3.11 - 7.58m — MARBLE

A unit of grey-white recrystallised marble, some bedding is apparent in the last half metre of the core. The unit contains only minor garnet and the only scheelite present is associated with this garnet at 4.18m. Bedding is at 36^{o} LCA 7.5m.

7.58 - 13.51m — GARNET SKARN

A medium to course grained garnet skarn with irregular amounts of calcite and pyroxene present throughout.

Scheelite mineralisation is high grade through out and occurs as finely disseminated specks. Very high molybdenum content occurs in the first 16cm where molybdenite rosettes are common.

13.51 - 29.52m — MINERALISED BANDED FOOTWALL BEDS

This unit grades into the ore above as banding becomes more pronounced. The unit consists mainly of pyroxene garnet hornfels with varying amounts of barren marble and biotite pyroxene hornfels present as bands through out.

Scheelite mineralisation is present through out in the garnet rich areas and the overall grade varies dependent upon how much of the other bands are present. Bedding is at 35^{o} LCA at 15.50m
27^{o} LCA at 21.50m
13^{o} LCA at 26.0m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/7

29.52 - 41.81m BANDED FOOTWALL BEDS

A continuation of the above unit except that in this area the pyroxene garnet hornfels beds form less than 20% of the total rock. The dominant rock types are barren marble and biotite pyroxene hornfels.

A possible fault is located at 31.67m - 31.96m where some clay pug occurs but this could be just a leached zone in a marble band.

Broken ground occurs at 32.90m, 34.22m, 39.75m and 41.02m.
Bedding is at 61^{o} LCA at 30.0m
70^{o} LCA at 34.60m
56^{o} LCA at 37.50m
58^{o} LCA at 39.70m

Between 33.50m and 36.50m there is a zone containing about 50% pyroxene garnet hornfels with minor scheelite.

41.81 - 46.98m MINERALISED BANDED FOOTWALL BEDS

Similar to those between 13.51 - 29.52m these units are dominantly of pyroxene garnet skarn with lesser amounts of biotite pyroxene hornfels and marble.
Bedding is at 44^{o} LCA at 44.20m
48^{o} LCA at 46.20m

46.98 - 51.23m BANDED FOOTWALL BEDS

A small unit of unmineralised banded footwall beds. The bedding in this area is quite disturbed and pods are apparent between 51.70m - 52.50m.

Between 47.60m and 48.10m the core is broken and some puggy material is present possibly indicating a fault zone.

51.23 - 55.72m MARBLE

A grey-white recrystalised marble almost completely devoid of undisturbed bedding and with no scheelite mineralisation.
Bedding is at 14^{o} LCA at 52.85m
22^{o} LCA at 54.65m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/7

55.72 - 64.22m BANDED FOOTWALL BEDS

A sequence of biotite pyroxene hornfels, marble, and minor garnet pyroxene bands.

Initially the bedding is disturbed and sub parallel to the core axis but the unit becomes more uniform below about 57.0m.
Between 59.03 - 59.73m there is minor - moderate scheelite present in a pyroxene and garnet rich unit.
Bedding is at 66° LCA at 57.60m.
63° LCA at 60.50m.
67° LCA at 62.50m.

64.22 - 84.10m BANDED BIOTITE PYROXENE HORNFELS

This unit is essentially a sequence of fine bands of biotite and pyroxene hornfels with very minor amounts of calcite and garnet present between 71.83 - 75.66m.

The core is broken and fractured in a number of areas and has a slightly leached appearance at these points.
Zones of broken core are:- 66.0 - 66.5m possible fault
71.96- 74.50m probable fault
at 77.0 - broken ground
79.8m - 80.00m broken ground
Bedding is at 52° LCA at 65.30m
41° LCA at 70.70m
26° LCA at 75.50m
54° LCA at 78.00m

It is possible that the No.2 fault occurs at 84.10m.

84.10 - 91.80m PYROXENE GARNET HORNFELS

Initially this is fairly typical C_1 lens pyroxene garnet hornfels with a well developed podded appearance but below about 89.6m the unit becomes more of a garnet skarn.

Good grade scheelite is present through out this unit.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No.BH 375/87

91.80 - 98.93m MARBLE

A grey-white recrystalised marble typical of the C_2 lens marble.

This unit is completely barren of scheelite mineralisation.
Bedding is at 67° LCA at 93.2m
69° LCA at 97.8m

The core is broken and leached at 94.64m while a small pug zone occurs at 96.0m.

98.93 - 102.48m MINERALISED BANDED FOOTWALL BEDS

A small unit of mineralised banded footwall beds. The garnet pyroxene hornfels makes up about 50% of this unit with the rest being marble and biotite pyroxene hornfels.

The mineralisation here is probably sub grade over the 1 metre splits.

The core is heavily leached at the contact with the marble above, and also between 101.28 - 101.59m.

A water inflow is recorded at 102.0m .

102.48 - 110.40m BANDED FOOTWALL BEDS
EOH

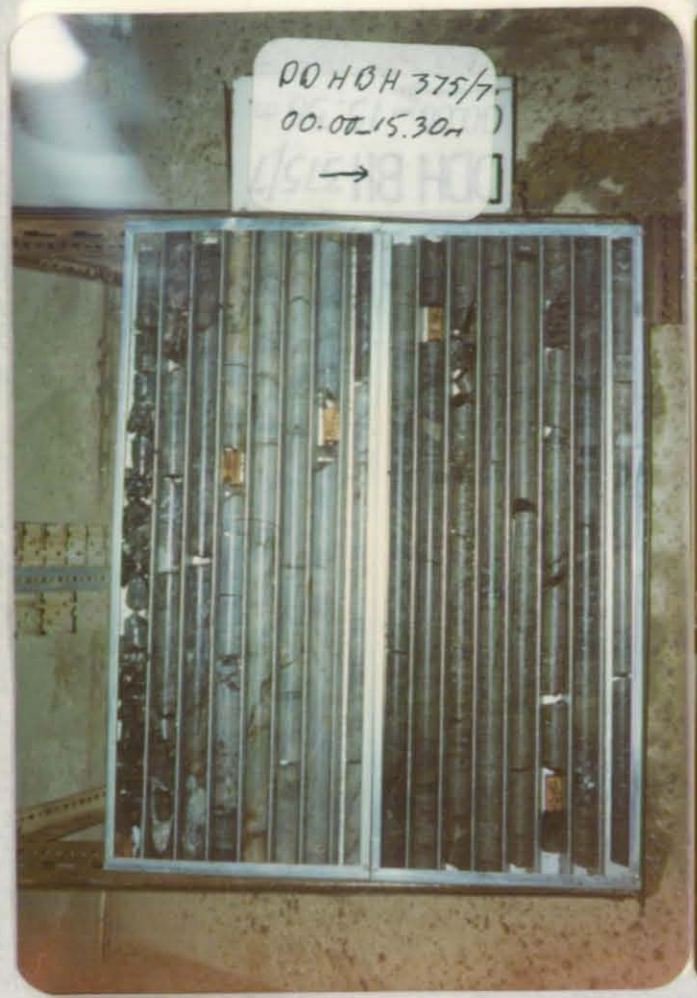
A barren sequence of biotite pyroxene and calcite hornfels units containing only very minor amounts of garnet.
Bedding is at 75° LCA at 104.60m
77° LCA at 107.40m
68° LCA at 110.0m

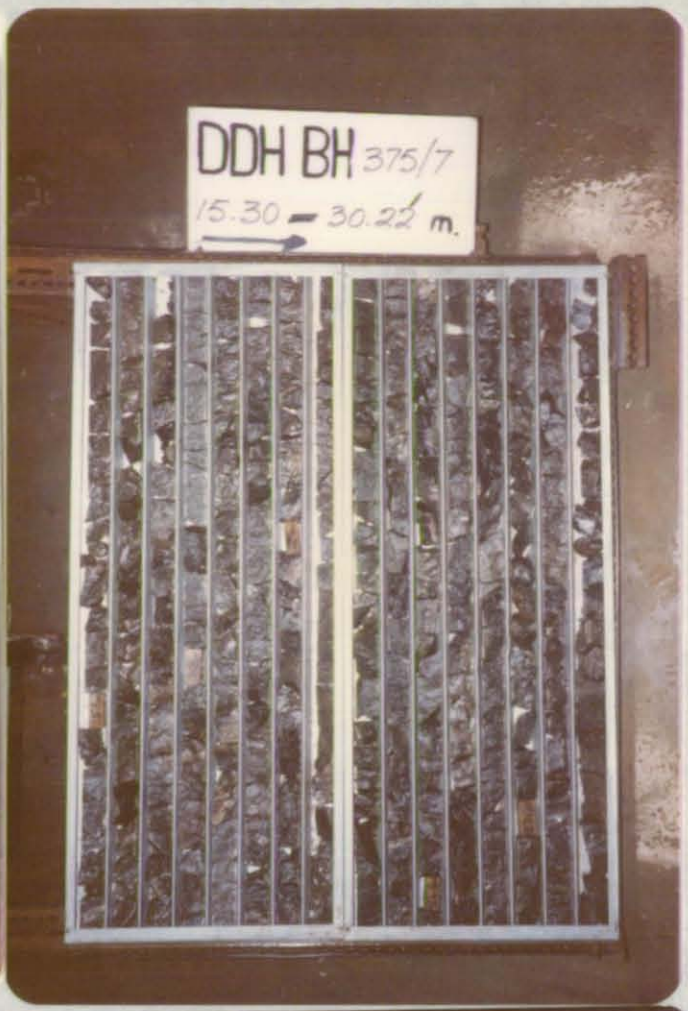
GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 375/7

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			HOLE No.
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
5022	0.10		5662	0.01		5663	0.16		5664	0.19		B 375/7
5030	0.45		5659	0.36		5660	0.52		5661	0.53		"
5031	0.91		5644	0.85		5645	1.07		5646	1.07		"
5056	0.56		5641	0.52		5642	0.67		5643	0.67		"

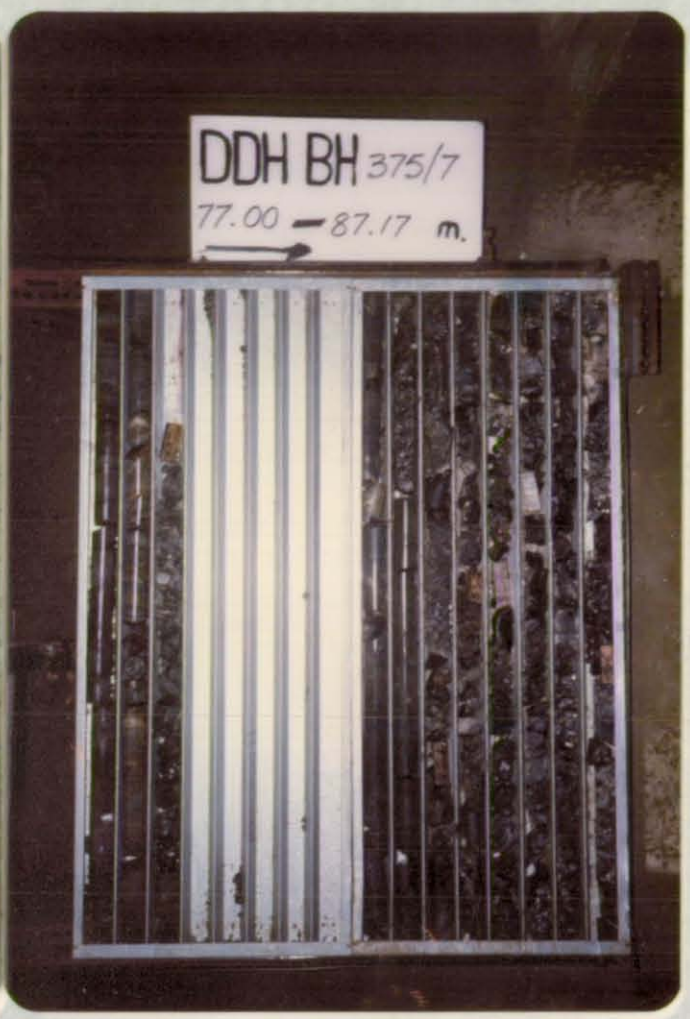

DDH BH 375/7
00.00-15.30m


DDH BH 375/7
15.30 - 30.22 m.

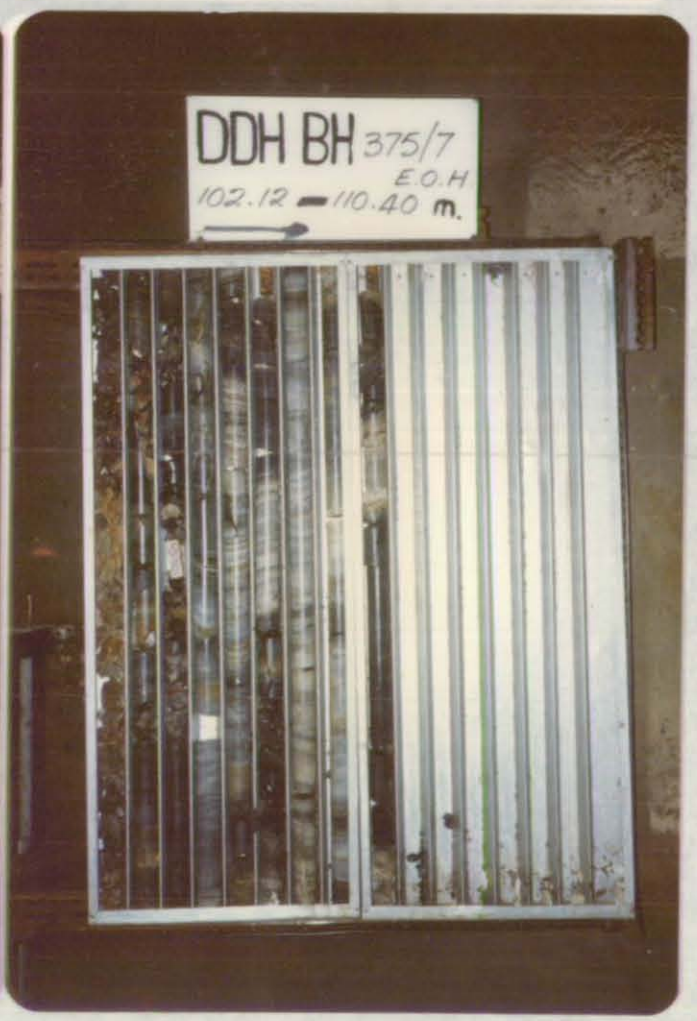

DDH BH 375/7
30.22 - 45.53 m.


DDH BH 375/7
45.53 - 60.14 m.


DDH BH 375/7
60.14 - 77.00 m.


DDH BH 375/7
77.00 - 87.17 m.


DDH BH 375/7
87.17 - 102.12 m.


DDH BH 375/7
E.O.H
102.12 - 110.40 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 375/6

PLANNING

Proposer: S.G. Brown **Depth:** 110

Location: 042 drive

Purpose of hole: To test BF_1, BF_2 C_1 and C_2 lenses

Co-ordinates: 40391.0 E 10375.0 N
Inclination: -82 **Magnetic:**
Bearing 270° **Grid** **Target Depth:**
Target: E N
Approved by: M.C. Rogers **Date:** 23/6/77

SURVEY

Survey Co-ords: E N
Survey bearing: 254° 07' **Grid** **Magnetic:**
Surveyed in by: **Date:**
Actual Co-ords: 40392.92 E 10374.91 N
R.L. of Collar: 951.44 **Inclination of Hole:** -81° 36'
Picked up by: A. Grigulis **Date:** 8/7/77

SUMMARY

Logged by: S.G. Brown
Results:

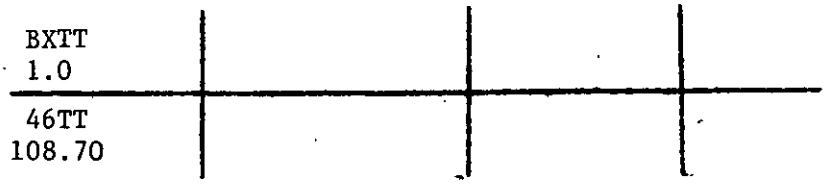
5.0m - 16.0m	11m @ 1.16% WO_3	59.0 - 67.0m	8.0m @ 0.66% WO_3
23.0 - 28.0m	5.0m @ 0.76% WO_3	73.0 - 76.0m	3.0m @ 0.88% WO_3
46.0 - 51.0m	5.0m @ 0.56% WO_3		

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 1/7/77 **Date terminated:** 22/7/77

Casing: **Size:** BXTT
Depth: 1.0
Core: **Size:** 46TT
Depth: 108.70



Wedge Runoff:
Wedge placed: Nil **Depth:**
Proposed by: **Approved by:**
Reason:
Extension: Nil
Reason for termination: Below mineral horizon

Condition of hole on completion: **Final depth:**
Casing: left
Cemented: no
Bore hole survey: Multishot
Water: Minor

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 375/6

Survey method: Multishot
Final depth : 108.70m
Casing depth : 1m

Depth surveyed to: 108.70
Date surveyed: 25/7/77
Surveyed by : L.D.
Checked by : G.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
15.0	257° 00'	S49° 00'W	7° 45'	82° 15'	14.86	1.33	1.52
27.0	257° 00'	S49° 00'W	8° 15'	81° 45'	26.74	2.46	2.82
39.0	254° 00'	S46° 00'W	8° 15'	81° 45'	38.62	3.65	4.06
42.0	257° 00'	S49° 00'W	8° 00'	82° 00'	41.59	3.93	4.38
51.0	258° 00'	S50° 00'W	8° 15'	81° 45'	50.50	4.76	5.37
63.0	257° 00'	S49° 00'W	8° 15'	81° 45'	62.38	5.89	6.67
69.0	257° 00'	S49° 00'W	8° 45'	81° 15'	68.29	6.56	7.44
81.0	259° 00'	S51° 00'W	8° 30'	81° 30'	80.16	7.67	8.82
84.0	259° 00'	S51° 00'W	8° 45'	81° 15'	83.12	7.99	9.22
93.0	259° 00'	S51° 00'W	8° 45'	81° 15'	91.99	8.95	10.40
102.0	259° 00'	S51° 00'W	8° 45'	81° 15'	100.86	9.91	11.58
108.70	259° 00'	S51° 00'W	8° 45'	" "	107.46	10.62	12.46

10.62
+0.09
10.71

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 375/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 1.0	1.0	0.72	72
3.0	2.0	1.93	97
6.0	3.0	2.93	98
8.1	2.1	2.10	100
9.1	1.0	1.00	100
12.1	3.0	3.01	100
15.2	3.1	2.94	98
17.6	2.4	2.25	94
18.8	1/2	1.13	94
21.4	2.6	2.47	95
22.8	1.4	1.39	99
23.8	1.0	0.98	98
26.8	3.0	2.99	100
29.8	3.0	2.98	99
32.6	2.8	2.71	97
34.0	1.4	1.35	96
35.2	1.2	0.62	52
36.8	1.6	1.58	99
39.5	2.7	2.78	103
40.7	1.2	1.10	92
43.0	2.3	2.15	93
45.8	2.80	2.80	100
48.9	3.10	3.01	97
51.1	2.20	2.17	99
53.0	1.90	1.84	97
56.0	3.00	2.86	95
58.2	2.20	2.22	101
61.2	3.00	2.98	99
63.8	2.60	2.66	102
65.2	1.40	1.47	105
66.9	1.70	1.67	98
67.7	0.80	0.77	96
68.9	1.20	1.13	94
69.8	0.90	0.66	73
71.4	1.60	1.57	98
72.9	1.50	1.42	95
75.6	2.70	2.67	99
77.3	1.70	1.69	99
78.8	1.50	1.37	91
81.7	2.90	2.89	100
84.7	3.0	2.95	98
87.7	3.00	3.01	100
90.7	3.00	3.03	101
93.7	3.0	3.00	100
96.7	3.00	2.91	97

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 375/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
99.7	3.0	2.98	99
102.7	3.0	3.00	100
105.7	3.0	2.85	95
108.7	3.0	2.97	99

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 375/6

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH4930	0.0	1.0	1.0	0.72	<0.01	<0.01	
31	1.0	2.0	1.0	1.0	<0.01	<0.01	
32	2.0	3.0	1.0	1.0	<0.01	<0.01	
33	3.0	4.0	1.0	1.0	<0.01	<0.01	
34	4.0	5.0	1.0	1.0	0.17	0.01	
35	5.0	6.0	1.0	1.0	1.30	0.09	5.0 - 16.0m
36	6.0	7.0	1.0	1.0	0.65	0.08	11.0m @ 1.16% WO_3
37	7.0	8.0	1.0	1.0	1.27	0.08	
38	8.0	9.0	1.0	1.0	0.94	0.07	
39	9.0	10.0	1.0	1.0	0.76	0.04	
40.	10.0	11.0	1.0	1.0	1.14	0.07	
41	11.0	12.0	1.0	1.0	1.04	0.07	
42	12.0	13.0	1.0	1.0	1.17	0.07	
43	13.0	14.0	1.0	1.0	1.65	0.07	
44	14.0	15.0	1.0	1.0	1.18	0.08	
45	15.0	16.0	1.0	1.0	1.67	0.08	
46	16.0	17.0	1.0	1.0	<0.01	<0.01	
BH4947	22.0	23.0	1.0	1.0	<0.01	<0.01	
48	23.0	24.0	1.0	1.0	0.27	0.01	
49	24.0	25.0	1.0	1.0	0.34	0.03	
50	25.0	26.0	1.0	1.0	1.81	0.10	23.0 - 28.0m
51	26.0	27.0	1.0	1.0	0.55	0.02	5.0m @ 0.76% WO_3
52	27.0	28.0	1.0	1.0	0.81	0.04	
53	28.0	29.0	1.0	1.0	0.12	0.01	
54	29.0	30.0	1.0	1.0	0.20	0.04	
55	30.0	31.0	1.0	1.0	0.01	<0.01	
56.	31.0	32.0	1.0	1.0	0.01	<0.01	
BH4957	40.0	41.0	1.0	1.0	<0.01	<0.01	
58	41.0	42.0	1.0	1.0	0.10	<0.01	
59	42.0	43.0	1.0	1.0	0.37	0.02	
60	43.0	44.0	1.0	1.0	<0.01	<0.01	
61	44.0	45.0	1.0	1.0	0.12	0.01	
62	45.0	46.0	1.0	1.0	0.16	0.01	
63	46.0	47.0	1.0	1.0	0.27	0.01	
64	47.0	48.0	1.0	1.0	0.46	0.02	46.0 - 51.0m
65	48.0	49.0	1.0	1.0	0.63	0.03	5m @ 0.56% WO_3
66	49.0	50.0	1.0	1.0	0.99	0.06	
67	50.0	51.0	1.0	1.0	0.45	0.06	
68	51.0	52.0	1.0	1.0	0.20	0.01	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. bh 375/6

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 4969	59.0	60.0	1.0	1.0	0.95	0.03		
70	60.0	61.0	1.0	1.0	<0.01			
71	61.0	62.0	1.0	1.0	0.63	0.03	59.0 - 67.0m	
72	62.0	63.0	1.0	1.0	0.45	0.05	8m @ 0.66% WO_3	
73	63.0	64.0	1.0	1.0	1.34	0.08		
74	64.0	65.0	1.0	1.0	0.71	0.06		
75	65.0	66.0	1.0	1.0	0.47	0.05		
76	66.0	67.0	1.0	1.0	0.48	0.04		
77	67.0	68.0	1.0	1.0	0.24	0.02		
BH 4978	72.0	73.0	1.0	1.0	0.05	0.02		
79	73.0	74.0	1.0	1.0	0.52	0.04	73.0 - 76.0m	
80	74.0	75.0	1.0	1.0	1.30	0.09	3m @ 0.88% WO_3	
81	75.0	76.0	1.0	1.0	0.81	0.06		
82	76.0	77.0	1.0	1.0	0.16	0.02		
83	77.0	78.0	1.0	1.0	0.14	0.02		
BH 4984	88.0	89.0	1.0	1.0	<0.01	0.02		
85	89.0	90.0	1.0	1.0	0.03	0.02		
86	90.0	91.0	1.0	1.0	0.08	0.02		
87	91.0	92.0	1.0	1.0	<0.01	<0.01		
88	92.0	93.0	1.0	1.0	<0.01	< 0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/6

0.0 - 0.60 PODDED BIOTITE PYROXENE HORNFELS

A small unit of disturbed black purple biotite hornfels with irregular patches of green pyroxene rich hornfels present through out.

0.60 - 4.82 MINERALISED MARBLE

This unit is very irregular in composition with the first 2.5m being similar in appearance to the podded pyroxene garnet hornfels unit except that there is a very high grossularite content.

Below this point the unit consists of a grey white crystaline marble with discrete grossularite aggregates present through out.
Between 3.45 - 3.80m there is a of crushed marble pug possibly indicative of a fault.

It is not anticipated that this unit will contain ore grade scheelite even though mineralisation is present through out in erratic amounts.

4.82 - 15.92 GARNET SKARN

This unit consists of a coursely crystaline garnet skarn with moderate amounts of calcite and pyroxene also present. High grade scheelite mineralisation is present through out.

15.92 - 22.73 MARBLE

A unit of recrystalised grey white marble typical of the unreplaced BF_1 lens marble.

Although the marble has been recrystalised and is in some places disturbed well developed bedding is apparent in certain areas.
Bedding is at 33° LCA at 17.67m
48° LCA at 20.85m
46° LCA at 22.40m

This unit is, with the exception of a small patch of garnet skarn between 21.78 - 21.89m, completely barren of scheelite mineralisation.

Two zones of broken core are present in this unit at 18.8m and 21.4m respectively. The one at 18.8m may represent a small fracture/fault at about 90° LCA while

that at 21.4m is associated with a calcite filled fracture at 8° LCA.

22.73 - 31.20 MINERALISED BANDED FOOTWALL BEDS

Essentially this unit consists of a banded pyroxene garnet skarn with occasional biotite rich bands present through out.

The first metre and last metre and a half however have less than 50% of the core consisting of pyroxene garnet skarn.

The unit is well bedded through out as follows:
23.30m 65° LCA
25.10m 60° LCA
28.0m 59° LCA
between 23.9m to 25.49m there is a fairly major calcite filled fracture sub parallel to the long core axis.

31.20 - 41.56 BANDED FOOTWALL BEDS

This unit consists of alternating bands of biotite, pyroxene and calcite hornfels with only very minor amounts of garnet present associated with the calcite rich areas.

The unit is barren of scheelite mineralisation.
Bedding is at 55° LCA at 32.0m
50° LCA at 36.1m
56° LCA at 37.87m
55° LCA at 39.50m
A zone of broken core is present between 34.21 - 34.96m with only 40% core recovery. This may indicate a small fault.

41.56 - 51.39 MINERALISED BANDED FOOTWALL BEDS

This is a continuation of the above unit with calcite hornfels and garnet pyroxene skarn forming the majority of the bands, only minor biotite and pyroxene bands being present here.

The most likely area to contain ore grade scheelite is between 46.0m and 50.0m where over 90% of the core is pyroxene garnet skarn.

Scheelite is however present through out all the skarn bands.
Bedding is at 44° LCA at 43.50m
52° LCA at 46.05m
42° LCA at 50.60m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/6

51.39 - 59.21 BANDED FOOTWALL BEDS

Again this portion of the banded footwall beds consists of biotite pyroxene and calcite hornfels with only very minor grossularite associated with the marble horizons.
Bedding is at 48° LCA at 52.94m
44° LCA at 54.90m
29° LCA at 56.90m

The bedding in this unit is quite contorted and disturbed.

59.21 - 66.77 MINERALISED BANDED FOOTWALL BEDS

As before a portion of the banded footwall beds in which the andradite skarn is by far the most prominent member. Some calcite and pyroxene rich zones are present in this area.

Scheelite is present associated within andradite rich zones and although it is therefore erratic some of this unit will be ore grade.
Bedding is disturbed but can be measured in some areas e.g. 61.2m at 27° LCA

66.77 - 66.93 NO. 2 FAULT

A small zone of brecciated biotite hornfels.

66.93 - 72.51 BIOTITE PYROXENE HORNFELS

This is a disturbed and slightly podded unit of biotite pyroxene hornfels with about 40% of the core consisting of pyroxene hornfels. Some minor garnet bands and pods are present in this unit.

72.51 - 91.51 PODDED PYROXENE GARNET HORNFELS

This is a unit of podded pyroxene garnet hornfels slightly different from the normal C_1 lens unit in that it contains rather larger areas of podded pyroxene hornfels as follows:-
76.84m - 80.76m only minor garnet present in this zone.
84.11m - 85.37m again only minor garnet present.
87.95m - 88.65m The groundmass contain a much higher carbonate content than usual.

Only minor scheelite is present in this unit except between 73.8 - 74.7m where it may reach ore grade.

91.51 - 99.29 MARBLE

A unit of banded grey-white marble. This unit is

completely barren of scheelite mineralisation.
Bedding is at 66° LCA at 93.65m
65° LCA at 96.90m

99.29 - 108.70 BANDED FOOTWALL BEDS
EOH

Unmineralised banded footwall beds consisting of biotite, pyroxene and calcite bands with lesser amounts of grossularite.

Between 116.0 - 118.0m there is a large unit of barren grey marble.
Bedding is at 70° LCA at 101.5m
73° LCA at 103.5m
62° LCA at 106.3m

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 375/6

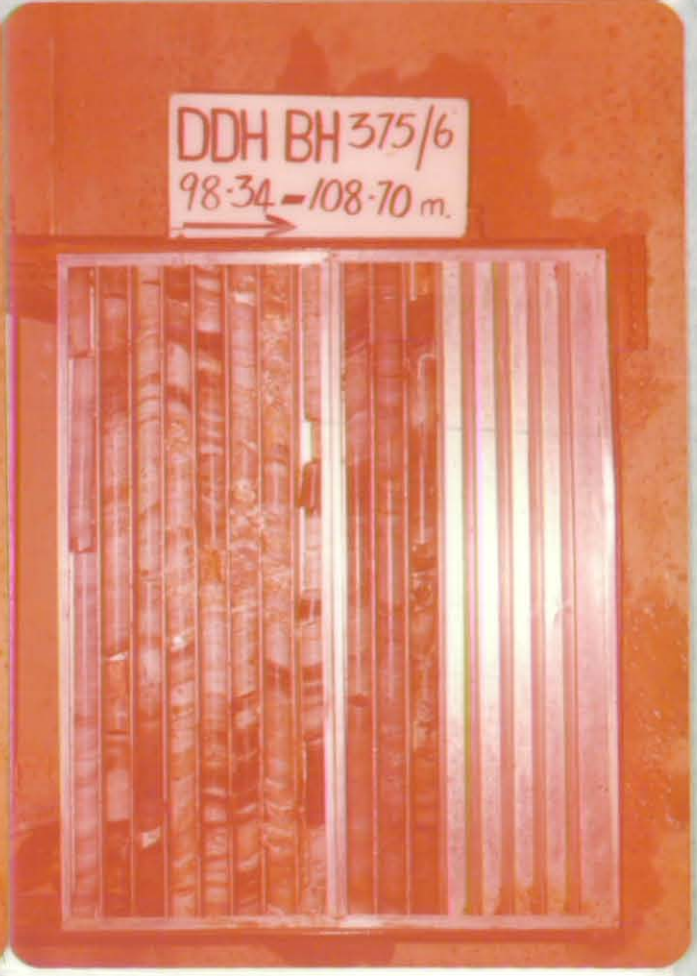
LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	HOLE No.
4935	1.30		5683	0.70		5684	1.16		5685	1.02		B 375/6
4945	1.67		5695	1.66		5696	1.78		5697	1.63		B 375/6
4951	0.55		5686	0.49		5687	0.62		5688	0.71		"
4965	0.63		5689	0.63		5690	0.79		5691	0.69		"
4980	1.30		5707	1.41		5708	1.34		5709	1.24		"


DDH BH375/6
00·00 – 15·50 m.
DDH BH375/6
15·50 – 30·44m.
DDH BH375/6
30·44 – 45·80m.
DDH BH375/6
45·80 – 61·06 m.


DDH BH 375/6
61·06 – 68·36 m.


DDH BH 375/6
68·36 – 83·27 m.


DDH BH 375/6
83·27 – 98·34 m.


DDH BH 375/6
98·34 – 108·70 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 375/5

PLANNING

Proposer: S.G. Brown — Depth: 95m

Location: Q42 drive

Purpose of hole: To test BF_1 and B lens East.

Co-ordinates: 40391.0 E 10375.0 N

Inclination: -60° — Magnetic

Bearing: 270° Grid — Target depth:

Target: E N

Approved by: M.C. Rogers — Date: 23/6/77

SURVEY

Survey Co-ords: E N

Survey bearing: 269° 57' Grid — Magnetic

Surveyed in by: — Date:

Actual Co-ords: 40392.47 E 10374.94 N

R.L. of collar: 951.57 — Inclination of hole: -58° 02'

Picked up by : A. Grigulis — Date: 8/7/77

SUMMARY

Logged by : S.G. Brown

Results:

15.0 - 17.0 2m @ 2.13 % WO_3
20.0 - 33.0 13m @ 1.12% WO_3
40.0 - 51.0 11m @ 0.67% WO_3

DRILLING

Driller/Contractor: ADD

Date commenced: 23/6/77 — Date terminated: 1/7/77

Casing: Size : NQ

Depth : 1.0

Core: Size : 46TT

Depth : 55.0

Wedge Runoff:

Wedge placed: No — Depth:

Proposed by : — Approved by:

Reason:

Extension: No

Reason for termination: Below 'B' lens marble — Final depth: 55.0m

Condition of hole on completion:

Casing : left

Cemented : No

Bore hole survey: Multishot

Water: Minor at No.2 Fault

Comments on drilling conditions: good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 375/5

Survey method: Multishot
Final depth : 55.0m
Casing depth : 1.0

Depth surveyed to: 21.0
Date surveyed: 25/7/77
Surveyed by : L.D.
Checked by : G.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
15.0	270° 00'	S62° 00'W	30° 00'	-60° 00'	12.99	3.49	6.62
18.0	270° 00'	S62° 00'W	30° 15'	-59° 45'	15.58	4.20	7.95
21.0	270° 00'	S62° 00'W	30° 15'	-59° 45'	18.17	4.90	9.28
31.0	270° 00'	-	-	-59° 45'	26.81	7.28	13.73
41.0	270° 00'	-	-	-59° 45'	35.45	9.65	18.18
51.0	270° 00'	-	-	-59° 45'	44.09	12.02	22.63
55.0	270° 00'	-	-	-59° 45'	47.55	12.97	24.41

REMARKS: Could not survey past 21.00m.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B375/5

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.40	3.40	2.99	88
5.50	2.10	2.10	100
8.50	3.00	3.37	112
11.60	3.10	2.97	96
13.10	1.50	1.53	102
16.20	3.10	2.95	95
17.90	1.70	1.71	101
21.0	3,10	2.97	96
24.10	3.10	3.05	98
25.70	1.60	1.52	95
27.20	1.50	1.48	99
28.50	1.30	1.27	98
30.30	1.80	1.86	103
32.20	1.90	1.86	98
33.30	1.10	1.11	101
35.50	2.20	2.14	97
38.10	2.60	2.84	109
39.20	1.10	1.07	97
40.70	1.50	1.37	91
42.40	1.70	1.68	99
45.40	3.00	2.86	95
48.4	3.00	2.78	93
51.4	3.00	3.01	100
54.4	3.00	3.04	101
EOH 55.0	0.60	0.71	118

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 375/5

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH4856	0.0	1.0	1.0	1.0	<0.01	<0.01		
7	1.0	2.0	1.0	1.0	<0.01	<0.01		
8	2.0	3.0	1.0	1.0	0.08	<0.01		
9	3.0	4.0	1.0	1.0	0.20	<0.01		
4860	4.0	5.0	1.0	1.0	0.22	<0.01		
61	5.0	6.0	1.0	1.0	<0.01	<0.01		
62	6.0	7.0	1.0	1.0	0.01	<0.01		
63	7.0	8.0	1.0	1.0	<0.01	<0.01		
64	8.0	9.0	1.0	1.0	0.12	<0.01		
65	9.0	10.0	1.0	1.0	<0.01	<0.01		
66	10.0	11.0	1.0	1.0	<0.01	<0.01		
67	11.0	12.0	1.0	1.0	<0.01	<0.01		
68	12.0	13.0	1.0	1.0	0.02	<0.01		
69	13.0	14.0	1.0	1.0	0.20	0.02		
BH4870	14.0	15.0	1.0	1.0	2.55	0.13	15-17m 2m@2.16/WO3	
71	15.0	16.0	1.0	1.0	<0.01	<0.01		
72	16.0	17.0	1.0	1.0	1.70	0.09		
73	17.0	18.0	1.0	1.0	0.16	<0.01		
74	18.0	19.0	1.0	1.0	<0.01	<0.01		
75	19.0	20.0	1.0	1.0	<0.01	<0.01		
76	20.0	21.0	1.0	1,0	0.72	0.03		
77	21.0	22.0	1.0	1.0	4.69	0.28		
78	22.0	23.0	1.0	1.0	0.82	0.05		
79	23.0	24.0	1.0	1.0	1.38	0.06	20.0 - 33.0m	
BH4880	24.0	25.0	1.0	1.0	0.71	0.03	13m @ 1.12% WO_3	
81	25.0	26.0	1.0	1.0	1.91	0.11		
82	26.0	27.0	1.0	1.0	0.63	0.04		
83	27.0	28.0	1.0	1.0	0.35	0.01		
84	28.0	29.0	1.0	1.0	0.89	0.05		
85	29.0	30.0	1.0	1.0	1.64	0.08		
86	30.0	31.0	1.0	1.0	0.35	<0.01		
87	31.0	32.0	1.0	1.0	0.56	<0.01		
88	32.0	33.0	1.0	1.0	0.63	<0.01		
89	33.0	34.0	1.0	1.0	0.25	<0.01		
BH4890	34.0	35.0	1.0	1.0	0.26	<0.01		
91	35.0	36.0	1.0	1.0	0.15	<0.01		
92	36.0	37.0	1.0	1.0	0.15	<0.01		
93	37.0	38.0	1.0	1.0	<0.01	<0.01		
94	38.0	39.0	1.0	1:0	<0.01	<0.01		
95	39.0	40.0	1.0	1.0	<0.01	<0.01		
96	40.0	41.0	1.0	1.0	0.84	0.05		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 375/5

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH4897	41.0	42.0	1.0	1.0	0.23	<0.01		
98	42.0	43.0	1.0	1.0	1.68	0.08	40.0 - 51.0	
99	43.0	44.0	1.0	1.0	0.10	<0.01	11m @ 0.67% WO_3	
BH4900	44.0	45.0	1.0	1.0	1.38	0.08		
1	45.0	46.0	1.0	1.0	0.26	0.01		
2	46.0	47.0	1.0	1.0	<0.01	<0.01		
3	47.0	48.0	1.0	1.0	0.48	0.02		
4	48.0	49.0	1.0	1.0	1.04	0.05		
5	49.0	50.0	1.0	1.0	0.80	0.04		
6	50.0	51.0	1.0	1.0	0.52	0.03		
7	51.0	52.0	1.0	1.0	<0.01	<0.01		
8	52.0	53.0	1.0	1.0	<0.01	<0.01		

NOTE:- Interval 20.0m - 51.0m average grade 0.73% WO_3

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/5

0.0 - 14.42 PODDED PYROXENE GARNET HORNFELS

This a a disturbed podded unit of pyroxene garnet hornfels with some biotite rich zones present in the first 2.5m.

The distribution of the pods is less regular than normal with a finer grained pyroxene rich matrix than is usually present in some areas.

Scheelite mineralisation is present throughout as discrete crystals and flecks.

Some streaky and brecciated banding is present at 10^{o} LCA at 5.5m

The rather unusual appearance of this unit is probably due to the hole being drilled at an angle fairly close to the dip of the rocks in this area.

14.42 - 17.14 GARNET SKARN

Initially this unit is transitional to the pyroxene garnet hornfels above and in this area the scheelite content is sub grade. Below the 15 metre mark the core becomes a purer course grained garnet skarn with high grade scheelite present as finely disseminated grain through out this part of the unit.

17.14 - 20.15 MARBLE

A barren grey-white recrystallised marble with a distinctly sugary appearance to it. Some remnant bedding is apparent in this core.

Bedding 44^{o} LCA at 19.0m
34^{o} LCA at 19.8m

20.15 - 22.29 GARNET SKARN

A course grained garnet skarn with good grade scheelite present through out.

Typical BF_1 type skarn.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/5

22.29 - 41.31 MINERALISED BANDED FOOTWALL BEDS

A disturbed banded unit of well skarnified and mineralised banded footwall beds. The calcite bands have been completely replaced by garnet skarn and good grade scheelite is present in these bands. The biotite and pyroxene rich bands are usually barren but a large percentage of this unit is probably ore grade over all.
Bedding is at 33° LCA at 23.82
35° LCA at 25.40
40° LCA at 34.35

At 39.75m there is a small zone of broken and crushed core.

41.31 - 41.52 NO.2 FAULT

A small zone of crushed and brecciated rock with some calcite cement.

41.52 - 43.17 PYROXENE GARNET HORNFELS

B lens east type pyroxene garnet hornfels after marble. This unit is heavily weathered and broken due to proximity to the No.2 fault.

Scheelite is present probably in ore grade.

43.17 - 52.28 MINERALISED MARBLE

This unit consists of a grey-black disturbed marble with irregular replacement by pyroxene and garnet hornfels present through out. Moderate grade scheelite is present in the pyroxene and garnet rich areas and parts of this unit will reach ore grade.

The core is badly broken in some areas, clay pug is also present in the broken zones which occur as follows:-

44.42 clay pug
45.44 - 45.90 crushed rock some core loss.
46.99 broken ground
49.81 broken ground
50.64 broken ground
51.4 broken ground

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/5

52.26 - 55.0 BIOTITE PYROXENE HORNFELS
EOH

A banded unit of biotite pyroxene hornfels with the typical white stringy bands and fragments normally found below the 'B' lens marble.
Bedding is at 62° LCA at 53.8m

A small zone of broken ground occurs at 54.72m.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 375/5

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Hole No.
4872	1.70		5614	1.66		5615	1.69		5616	1.75		B 375/5
4878	0.82		5626	0.60		5627	0.83		5628	0.77		"
4885	1.64		5608	1.05		5609	1.36		5610	1.30		"
4896	0.84		5623	0.73		5624	1.12		5625	1.16		"
4900	1.38		5710	1.23		5711	1.60		5712	1.13		"

DDH BH 375/5
00·00 – 14·64 m.

DDH BH 375/5
14·64 – 29·71 m.

DDH BH 375/5
29·71 – 44·23 m.

DDH BH 375/5
44·23 – 55·00m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 375/4

PLANNING

Proposer: S.G. Brown — Depth: 45m

Location: Q42 drive

Purpose of hole: To test BF_1 and B lens main

Co-ordinates: 40389.0 E 10375.0 N

Inclination: -36° — Magnetic

Bearing: 270° Grid — Target depth:

Target: E N

Approved by: M.C.Rogers — Date: 25/5/77

SURVEY

Survey Co-ords: E N

Survey bearing: 272° 46' Grid 46° — Magnetic

Surveyed in by: — Date:

Actual Co-ords: 40 391.58 E 10 374.93 N

R.L. of collar: 951.53 — Inclination of hole: -32° 58'

Picked up by : A. Grigulis — Date: 8/7/77

SUMMARY

Logged by : S.G. Brown

Results: 14.0 - 16.0m, 2.0m @ 0.89% WO_3
32.0 - 36.0m, 4.0m @ 0.44% WO_3
39.0 - 42.0m, 3.0m @ 1.16% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 20/6/77 — Date terminated: 23/6/77

Casing: Size :
Depth : 1.0m

Core: Size : 46TT
Depth : 46.50

Wedge Runoff:

Wedge placed: No — Depth:

Proposed by : — Approved by:

Reason:

Extension: No

Reason for termination: Below mineral zone — Final depth: 46.50m

Condition of hole on completion:

Casing : Left

Cemented : No

Bore hole survey: Multishot

Water: Mines

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 375/4

Survey method: Multishot

Final depth : 46.50m

Casing depth : 1.0m

Depth surveyed to: 46.50m

Date surveyed: 23/6/77

Surveyed by : L.D.

Checked by : R.VdenB

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
7.0	270°	S62° 00'W	54° 45'	-35° 15'	4.04	2.69	5.05
22.0	270°	S63° oo'W	54° 45'	-35° 15'	12.69	8.25	15.97
34.0	270°	S64° 00'W	54° 45'	-35° 15'	19.61	12.54	24.78
46.5	270°	S65° 00'W	54° 45'	-35° 15'	26.90	16.90	33.94

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 375/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 1.00	1.00	0.91	91
2.00	1.00	1.03	103
5.00	3.00	2.96	99
8.00	3.00	3.01	100
11.0	3.00	2.75	92
14.0	3.00	3.00	100
17.0	3.00	3.03	101
20.0	3.00	3.01	100
22.4	2.40	2.40	100
23.2	0.80	0.87	110
26.2	3.00	2.86	95
28.8	2.60	2.74	105
31.8	3.00	2.96	99
33.2	1.40	1.38	99
35.4	2.20	2.05	93
37.5	2.10	2.02	96
40.5	3.00	3.01	100
43.5	3.00	2.93	98
EOH 46.5	3.00	2.79	93

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 375/4

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH 4776	0.0	1.0	1.0	1.0	<0.01	<0.01	
7	1.0	2.0	1.0	1.0	<0.01	<0.01	
8	2.0	3.0	1.0	1.0	<0.01	<0.01	
9	3.0	4.0	1.0	1.0	<0.01	<0.01	
80	4.0	5.0	1.0	1.0	<0.01	<0.01	
1	5.0	6.0	1.0	1.0	<0.01	<0.01	
2	6.0	7.0	1.0	1.0	<0.01	<0.01	
3	7.0	8.0	1.0	1.0	<0.01	<0.01	
4	8.0	9.0	1.0	1.0	<0.01	<0.01	
5	9.0	10.0	1.0	1.0	<0.01	<0.01	
6	10.0	11.0	1.0	1.0	<0.01	<0.01	
7	11.0	12.0	1.0	1.0	<0.01	<0.01	
8	12.0	13.0	1.0	1.0	<0.01	<0.01	
9	13.0	14.0	1.0	1.0	0.22	0.04	14.0 - 16.0m,
90	14.0	15.0	1.0	1.0	1.28	0.06	2.0m @ 0.89% WO_3
1	15.0	16.0	1.0	1.0	0.50	0.02	
2	16.0	17.0	1.0	1.0	0.10	<0.01	
3	17.0	18.0	1.0	1.0	0.25	0.01	
4	18.0	19.0	1.0	1.0	<0.01	<0.01	
5	19.0	20.0	1.0	1.0	0.34	0.01	19.0 - 20.0m
6	20.0	21.0	1.0	1.0	<0.01	<0.01	1m @ 0.34
7	21.0	22.0	1.0	1.0	1.88	0.10	21.0 - 22.0m
8	22.0	23.0	1.0	1.0	0.15	0.01	1m @ 1.88
9	23.0	24.0	1.0	1.0	<0.01	<0.01	
4800	24.0	25.0	1.0	1.0	0.16	<0.01	
2	25.0	26.0	1.0	1.0	<0.01	<0.01	
3	26.0	27.0	1.0	1.0	<0.01	<0.01	
4	27.0	28.0	1.0	1.0	0.07	<0.01	
5	28.0	29.0	1.0	1.0	0.07	0.01	
6	29.0	30.0	1.0	1.0	<0.01	<0.01	
7	30.0	31.0	1.0	1.0	0.16	0.04	
8	31.0	32.0	1.0	1.0	0.01	0.01	
9	32.0	33.0	1.0	1.0	0.66	0.04	
4810	33.0	34.0	1.0	1.0	0.47	0.03	32.0 - 36.0m
11	34.0	35.0	1.0	1.0	0.21	0.01	4m @ 0.44% WO_3
12	35.0	36.0	1.0	1.0	0.42	0.01	
13	36.0	37.0	1.0	1.0	0.25	<0.01	
14	37.0	38.0	1.0	1.0	0.26	0.05	
15	38.0	39.0	1.0	1.0	0.16	<0.01	39.0 - 42.0m
16	39.0	40.0	1.0	1.0	0.49	0.04	3m @ 1.16% WO_3
17	40.0	41.0	1.0	1.0	2.40	0.13	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 375/4

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH4817								
4818	41.0	42.0	1.0	1.0	0.58	0.03		
19	42.0	43.0	1.0	1.0	0.02	0.01		
20	43.0	44.0	1.0	1.0	< 0.01	< 0.01		
		NB:	32.0m - 42.0m, 10.0m @ 0.59% WO_3					

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/4

0.0 - 28.29m PODDED PYROXENE GARNET HORNFELS

A unit of podded pyroxene garnet hornfels with irregular patches of biotite rich material occurring through out.

The garnet contents varys greatly through out with garnet rich areas occurring as follows; 0.0 - 5.0m, 13.5 - 16.50m, 19.0 - 23.2m, 27.0 - 28.29m.

Scheelite mineralisation is present through out the unit as occasional crystals. Finely disseminated scheelite occurs between 27.0 - 28.29m and the unit may be ore grade at this interval.

A small vug is apparant at 8.25m due to leaching of a calcite pod.

28.29 - 31.13m PODDED BIOTITE PYROXENE HORNFELS

A small unit of podded biotite pyroxene hornfels with only minor calcite and garnet present. The garnet is almost completely restricted to the reaction rims of the calcite pods and is grossularite.

31.13 - 34.29m PODDED PYROXENE GARNET SKARN

This unit is much more andradite rich than the large unit at the start of the hole and contains ore grade scheelite.

The size of the pods are smaller and the unit has a more disturbed rather than podded appearance.

The last 45cm of this unit consists of biotite and pyroxene hornfels.

34.29 - 34.31m NO.2 FAULT

A small fault zone containing calcite cement. The zone is at 66^{o} LCA .

34.31 - 37.40m GARNET SKARN

A small unit of disturbed garnet skarn with good grade scheelite present though out. The core here has some pods present in it and appears similar to that between 31.13 - 34.29m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/4

37.40 - 39.21m — BANDED PYROXENE GARNET HORNFELS

The pyroxene is dominant in this unit and the garnet which is present is mainly andradite. Bedding is at 25° LCA at 38.6m.

Scheelite mineralisation is present in minor amounts.

39.21 - 42.25m — GARNET SKARN

A slightly bedded unit of garnet skarn containing quite large amounts of pyroxene. This unit which grades into barren marble over the last 20cm is fairly typical of 'B' lens skarn.

Scheelite is present throughout in ore grade concentration .
Bedding is at 28° LCA at 40.9m.

42.25 - 46.50m
EOH — MARBLE

A unit of well bedded barren grey-black marble.
Bedding is at 35° LCA at 42.90m
33° LCA at 44.54m

A zone of pyroxene rich marble occurs between 45.50 - 46.05m and the core in this area is badly broken, and some core has been lost here.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 375/4

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	HOLE No.
4790	1.28		5620	0.90		5621	1.61		5622	1.80		B 375/4
4809	0.66		5638	0.64		5639	0.78		5640	0.71		"
4817	2.40		5635	2.43		5636	2.46		5637	2.31		"

DDH BH 375/4
00·00 – 14·73m.

DDH BH 375/4
14·73 – 30·38m.

DDH BH 375/4
30·38 – 44·18 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 375/3

PLANNING

Proposer: S. Grieve Brown — Depth: 60m

Location: 10375N cuddy on 042 drive.

Purpose of hole: To test BF1 and BF2 orebodies.

Co-ordinates: 40395.5 E 10375.0 N

Inclination: -65° — Magnetic

Bearing: 090° Grid — Target depth:

Target: - E - N -

Approved by: M.C. ROGERS — Date: 20/4/77

SURVEY

Survey Co-ords: - E N

Survey bearing: 95° 36' Grid — Magnetic

Surveyed in by: — Date:

Actual Co-ords: 40 394.62 E 10 375.32 N

R.L. of collar: 951.40 — Inclination of hole: -61° 52'

Picked up by : A. Grigulis — Date: 8/7/77

SUMMARY

Logged by : R. Van den Bogaart

Results: 6.0 - 8.0m 2m @ 1.70% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 10/6/77 — Date terminated: 20/6/77

Casing: Size : BQ

Depth : 1.0m

Core: Size : 46TT

Depth : 60.0

Wedge Runoff:

Wedge placed: Nil — Depth:

Proposed by : — Approved by:

Reason:

Extension: Nil

Reason for termination: Below mineral zone — Final depth: 60.0

Condition of hole on completion:

Casing : pulled

Cemented : No

Bore hole survey: Multishot

Water: minor

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 375/3

Survey method: Multishot camera

Final depth : 60.0

Casing depth : 1m

Depth surveyed to: 60.0

Date surveyed: 20/6/77

Surveyed by : L. Denby

Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
10	097° 00'	069° 00'	25° 45'	-64° 15'	9.00	1.56	4.06
28	096° 00'	068° 00'	25° 45'	-64° 15'	25.22	4.42	11.34
49	096° 00'	068° 00'	25° 15'	-64° 45'	44.19	7.76	19.69
60 EOH	095° 00'	067° 00'	25° 15'	-64° 45'	54.14	9.62	24.01

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 375/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.00	3.00	2.53	84
5.00	2.00	1.84	92
6.40	1.40	1.31	94
8.80	2.40	2.40	100
11.80	3.00	2.99	100
14.80	3.00	3.18	106
17.80	3.00	2.95	98
20.00	2.20	2.12	96
23.30	3.30	2.78	84
25.25	1.95	1.73	89
25.60	0.35	0.38	109
27.60	2.00	0.56	28
28.10	0.50	0.30	60
31.20	3.10	3.15	102
31.50	0.30	0.18	60
33.60	2.10	1.83	87
33.90	0.30	0.30	100
35.80	1.90	1.82	96
38.80	3.00	2.82	94
41.80	3.00	3.00	100
44.80	3.00	2.93	98
48.60	3.80	3.85	101
51.60	3.00	2.82	94
52.80	1.20	1.29	108
55.00	2.20	2.22	101
56.20	1.20	1.00	83
58.0	1.80	1.75	97
59.0	1.00	0.70	70
60.0	1.00	1.02	102
EOH			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 375/3

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 4761	5.0	6.0	1.0	1.0	<0.01	<0.01		
2	6.0	7.0	1.0	1.0	1.34	0.08	6.0 - 8.0,	
3	7.0	8.0	1.0	1.0	2.06	0.12	2m @ 1.70% WO_3	
4	8.0	9.0	1.0	1.0	0.13	<0.01		
5	9.0	10.0	1.0	1.0	0.13	<0.01		
6	10.0	11.0	1.0	1.0	0.08	<0.01		
7	11.0	12.0	1.0	1.0	0.17	<0.01		
8	12.0	13.0	1.0	1.0	<0.01	<0.01		
9	13.0	14.0	1.0	1.0	<0.01	<0.01		
4770	28.10	29.0	0.90	0.90	<0.01	<0.01		
1	29.0	30.0	1.0	1.0	0.06	<0.01		
2	30.0	31.0	1.0	1.0	<0.01	<0.01		
3	31.0	32.0	1.0	1.0	<0.01	<0.01		
4	32.0	33.0	1.0	1.0	0.06	<0.01		
4775	33.0	34.0	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 375/3

0.0 - 6.35 MARBLE

A grey recrystallised marble with some bands rich in biotite, pyroxene and grossularite. The unit is devoid of any scheelite mineralisation. Some remnant bedding is noted in this unit.

Remnant bedding is at
52° LCA @ 4.6m
53° LCA @ 6.30m

6.35 - 13.16 PYROXENE GARNET SKARN

A brownish-green unit of pyroxene garnet skarn consisting essentially of pyroxene, andradite, calcite, grossularite with minor pyrite actinolite and epidote. Some pods rich in calcite may be noted. The unit contains good scheelite in the initial 2m, after which the scheelite mineralisation is erratic and probably sub-grade. Major fractures (calcite filled) occur at
34° LCA @ 10.40m
18° LCA @ 11.46m

13.16 - 48.20 BANDED FOOTWALL BEDS

A unit of banded footwall beds consisting of alternate bands of biotite pyroxene hornfels, pyroxene garnet hornfels, calcite hornfels with smaller bands of pyroxene and grossularite. Irregular bands and patches rich in grossularite occur in the calcite hornfels bands.

Scheelite mineralisation is associated with the pyroxene garnet rich bands and with the grossularite rich bands and patches. The units are sub-grade. A large interval of biotite pyroxene hornfels with minor calcite rich bands has been included within the banded footwall unit. This occurs between the interval 30.0 - 41.80m. Bedding has been disturbed within this unit.

Bedding is at
26° LCA @ 14.0m
34° LCA @ 20.10m
48° LCA @ 28.50m
60° LCA @ 32.76m
80° LCA @ 44.20m

Core is uncompetent and also severely leached and weathered between 25.25 - 27.40m and between 27.60 - 28.10m. These may represent possible faults.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/3

Rubble or badly broken core also occurs at 23.0m, 31.20m, 33.6m, and 33.9m.

A major fracture (calcite - chlorite filled) occurs at
33^{o} LCA @ 23.45m

48.20 - 60.0 DISTURBED BIOTITE PYROXENE HORNFELS

A disturbed unit of biotite pyroxene hornfels c onsisting essentially of black-purple biotite and green pyroxene. Some irregular patches are rich in pyrrohotite and pyrite. The unit is devoid of any scheelite mineralisation.

Bedding is at
36^{o} LCA @ 52.60m
25^{o} LCA @ 54.50m
55^{o} LCA @ 59.8m

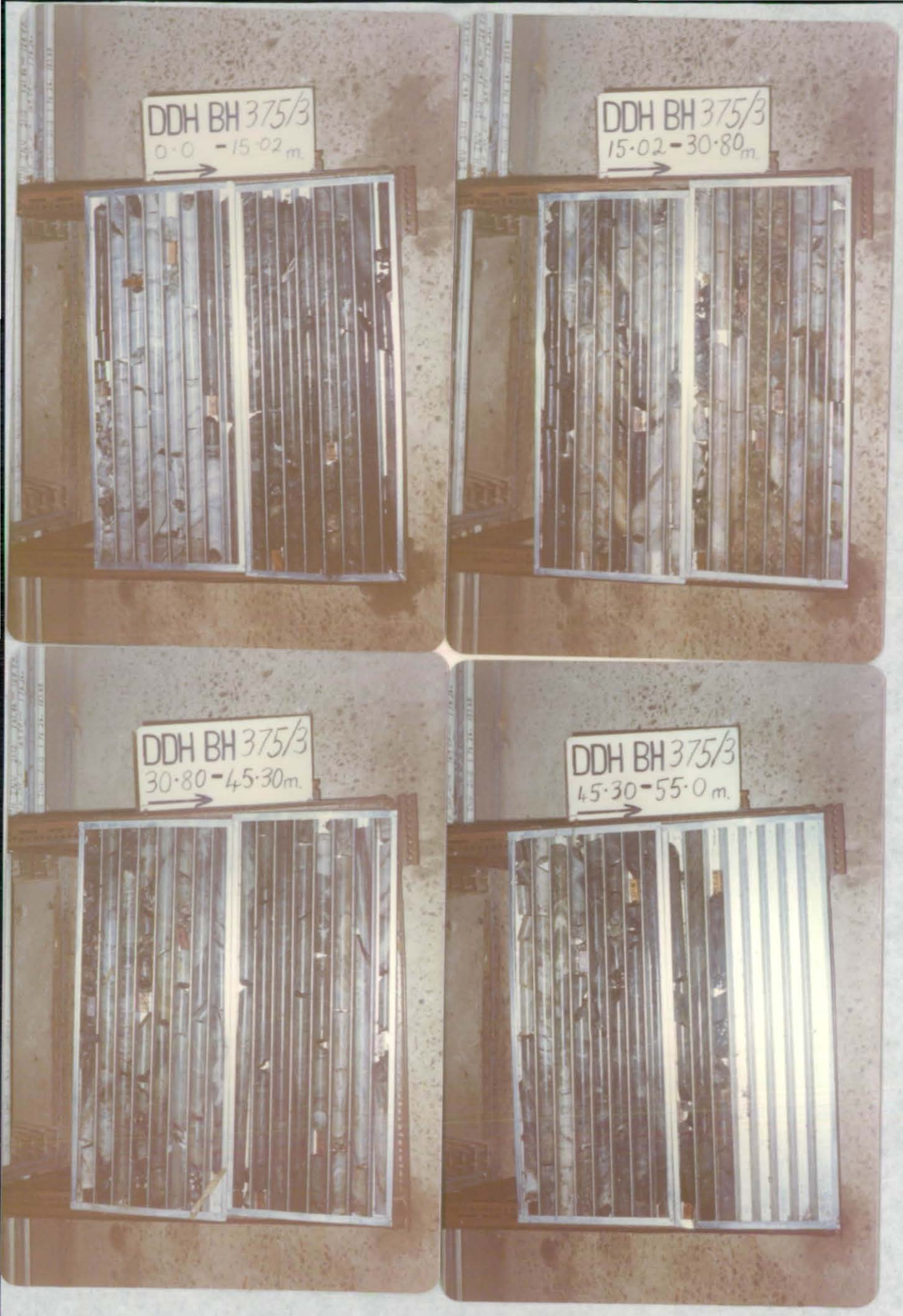
The core is badly broken at 55.0m and 59.0m.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H.) BH 375/3

LAB.	K.I.S.		LAB. K.I.S.			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4765	1.34	0.08	4440	1.35		4441	1.33		4442	1.43		
BH 4772	<0.01	<0.01	4443	<0.01		4444	0.04		4445	<0.01		


DDH BH 375/3
0·0 - 15·02 m.
DDH BH 375/3
15·02 - 30·80 m.
DDH BH 375/3
30·80 - 45·30 m.
DDH BH 375/3
45·30 - 55·0 m.


DDH BH 375/3
55·0
- 60·00m
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 375/2

PLANNING

Proposer: S.G. Brown — Depth: 35m

Location: Q 42 Drill cuddy

Purpose of hole: To test BF_1 (bfb (m)) and locate Boundary Fault.

Co-ordinates: 40 395.5 E 10 373 N
Inclination: -36° Magnetic:
Bearing 090° Grid Target Depth:
Target: E N
Approved by: M. Danielson Date: 25/5/77

SURVEY

Survey Co-ords: 40 395.17 E 10 375.34 N
Survey bearing: 91° 26' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: E N
R.L. of Collar: 951.37 Inclination of Hole: $-34^{\circ}20'$
Picked up by: A. Grigulis Date: 10/6/77

SUMMARY

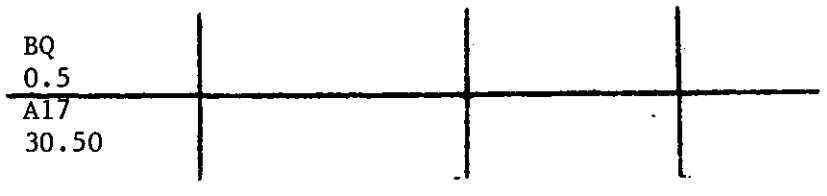
Logged by: S.G. Brown
Results: Only trace scheelite present.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 9/6/77 Date terminated: 10/6/77

Casing: Size: BQ
Depth: 0.5
Core: Size: A17
Depth: 30.50



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

Extension: Nil
Reason for termination: Entered quartzites.

Condition of hole on completion: Final depth: 30.50
Casing: pulled
Cemented: no
Bore hole survey: multishot
Water: No

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. KING ISLAND BH 375/2

Survey method: Multishot
Final depth : 30.50m
Casing depth : 1.30m

Depth surveyed to: 30.50m
Date surveyed: 10/6/77
Surveyed by : L.D.
Checked by : R.V den B.

[redacted]th (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
13	092°	N64° E	55°	-35°	7.46m	9.57	4.67
16	094°	N66° E	55° 15'	-34° 45'	9.17m	11.82	5.67
30.50	094°	N66° E	55° 15'	-34° 45'	17.44m	22.71	10.51

REMARKS: Camera set for 4 minutes.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 375/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.80	2.80	2.12	76
5.60	2.80	2.92	104
8.60	3.00	3.01	100
11.60	3.00	2.97	99
13.90	2.30	2.30	100
15.60	1.70	1.29	76
17.80	2.20	2.24	102
20.80	3.00	2.77	92
23.80	3.00	2.81	94
25.00	1.30	1.23	95
26.80	1.70	2.15	126
28.30	1.50	1.18	79
30.50	2.20	2.35	107
EOH			

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 375/2

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
				NOT ASSAYED				

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/2

0.0 - 8.23 MARBLE

A grey black coloured recrystalized marble with some minor bedding apparent towards 8.23m. This unit is completely barren of scheelite mineralisation.
Bedding is at 72^{o} LCA at 6.15m
69^{o} LCA at 7.11m

8.23 - 20.43 BANDED FOOTWALL BEDS

A sequence of biotite, pyroxene and calcite bands with some minor garnet bands present between 11.60 - 13.90m .
Only very minor trace scheelite is present associated with the garnet rich areas of this unit.

A fault zone is present at 13.90m and about 40cm of core were lost at this point. Some leached core and pug was recovered.

Overall this unit appears to be more fractured than is normal for this unit.

Bedding is at 53^{o} LCA at 9.79m
40^{o} LCA at 12.67m
55^{o} LCA at 17.22m

20.43 - 25.39 BIOTITE PYROXENE HORNFELS

This unit is increasingly disturbed as it approaches the 25.39 mark. Initially fine bedding is visible in the core but below 21.05m this is replaced by a more 'blotchy' appearance.

Scheelite mineralisation is not present in this unit.

Bedding is at 50^{o} LCA at 20.93m.

A probable fault is located at 23.80m.

25.39 - 26.48 BOUNDARY FAULT ZONE

A zone of disturbed siliceous rock with some feldspar laths visible in some areas.

26.48 - 30.50 QUARTZITES
E.O.H.

Dominantly a fine grained grey quartzite unit with some minor finer grained darker siltstone bands present in it. ~~Pyroxene~~ Pyrite is present through out mainly along the joint planes.


DDH BH 375/2
0·0 - 15·99 m.


DDH BH 375/2
15·99 - 30·50m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. B375/1

PLANNING

Proposer: S.G. Brown — Depth: 22m

Location: Q42 Drill cuddy

Purpose of hole: To test mineralisation adjacent Boundary Fault. To locate position of Boundary Fault.

Co-ordinates: 40395.5 E 10375 N

Inclination: -2^{o} Magnetic

Bearing: 090 Grid Target depth:

Target: E N

Approved by: M.Danielson Date: 25/5/77

SURVEY

Survey Co-ords: 40395.92 E 10375.34 N

Survey bearing: 92^{o} 08' Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: E N

R.L. of collar: 952.09 Inclination of hole: -1^{o} 51'

Picked up by : A. Grigulis Date: 10/6/77

SUMMARY

Logged by R. Van den Bogaart

Results: No ore grade mineralisation intersected.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 8/6/77 Date terminated: 9/6/77

Casing: Size : -

Depth :

Core: Size : AQ

Depth : 23.10

Wedge Runoff:

Wedge placed: - Depth:

Proposed by : Approved by:

Reason:

Extension: Nil

Reason for termination: Passed through Boundary Fault into quartzites Final depth: 23.10

Condition of hole on completion:

Casing : -

Cemented : -

Bore hole survey: Yes, multishot

Water: no

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 375/1

Survey method: Multishot
Final depth : 23.10
Casing depth : Nil

Depth surveyed to: 23.00
Date surveyed: 10/6/77
Surveyed by : L.D.
Checked by : R.Vde B.

[illegible]th (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
10	094°	N66E	88	-2°	0.35	9.13	4.06
23	094°	N66E	88° 15'	-1° 45'	0.75	21.09	9.35

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 375/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 5.15	5.15	5.13	100
8.15	3.00	2.48	83
11.18	2.95	3.00	102
14.10	3.00	2.95	98
15.00	0.90	0.90	100
17.10	2.10	2.07	99
19.80	2.70	2.64	98
21.00	1.20	1.08	90
23.10	2.10	2.02	96

GEOPEKO LIMITED - BH 375/1

ASSAY DATA

D.D.H. No. BH 375/1

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
B4701	10.0	11.0	1.0	1.0	<0.01	<0.01		
2	11.0	12.0	1.0	1.0	<0.01	<0.01		
3	12.0	13.0	1.0	1.0	<0.01	<0.01		
4	13.0	14.0	1.0	1.0	<0.01	<0.01		
5	14.0	15.0	1.0	1.0	<0.01	<0.01		
6	15.0	16.0	1.0	1.0	0.07	0.05		
7	16.0	17.0	1.0	1.0	<0.01	<0.01		
8	17.0	18.0	1.0	1.0	<0.01	<0.01		
9	18.0	19.0	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 375/1

0.00 - 9.88 MARBLE

A grey-white recrystallised marble showing remnant bedding. The unit consists essentially of marble with patches and bands rich in biotite, pyroxene, grossularite and pyrrohotite. The unit is devoid of any scheelite mineralisation.

Remant bedding is at
58° LCA @ 3.10m
46° LCA @ 5.10m
59° LCA @ 7.10m

A major calcite filled fracture occurs at
43° LCA @ 1.95m.

9.88 - 18.53 BANDED FOOTWALL BEDS

A disturbed unit of Banded Footwall Beds consisting essentially of alternate bands of pyroxene garnet hornfels, pyroxene hornfels, biotite pyroxene hornfels, and calcite hornfels.

The biotite pyroxene hornfels consist of alternate bands rich in biotite and pyroxene with irregular patches rich in grossularite, pyrite and pyrrohotite.

The calcite hornfels consists of a recrystallised marble with irregular patches rich in grossularite and pyroxene.

The pyroxene garnet rich bands consist essentially of pyroxene, grossularite, calcite, actinolite with minor andradite, pyrite, pyrrohotite molybdenite, and epidote. A small band between 17.57 - 17.72m is rich in pyrrohotite-pyrite and minor molybdenite. Scheelite mineralisation is erratic varying from coarse grained crystals to fine grained dessiminations. The unit is sub-grade.

Bedding is at:
58° LCA @ 9.12m
27° LCA @ 12.80m
30° LCA @ 17.47m
53° LCA @ 18.30m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 375/1

Major calcite-chlorite filled fractures occur at
30^{o} LCA @ 12.42m
46^{o} LCA @ 13.23m
36^{o} LCA @ 16.80m

18.53 - 20.62 BIOTITE PYROXENE HORNFELS

A disturbed unit of biotite pyroxene hornfels consisting essentially of patches and bands rich in pyroxene and biotite. Some sections of the cone are grossularite and pyrrohotite rich.

The unit is devoid of any scheelite mineralisation.

20.62 - 23.10 QUARTZITE

The biotite pyroxene hornfels appears to grade into quartzites at 20.62m. A disturbed silicified zone between 20.62 - 20.82m probably represents the Boundary Fault. The quartzites are a typically grey, fine grained, unit with minor dark coloured siltstone bands.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B375/1

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	HOLE No.
4706	0.07		5611	0.04		5612	0.16		5613	0.26		B 375/1


DDH BH 375/1
0·0 - 14·90m.


DDH BH 375/1
14·90 - 23·10m.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. 350/15 Bold Head

PLANNING

PROPOSER: S.G. Brown DEPTH: 70 m

LOCATION: Main Decline 10 350 N Section

PURPOSE OF HOLE: To locate granite contact

PROPOSED CO-ORDS: 40 323.0 E 10 350.0 N

INCLINATION: -26°

BEARING: 270 °Grid °Mag

TARGET: E N

DEPTH: 40 m

CHECKED BY: S.G. Brown DATE: 15.06.82

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 270° °Grid °Mag

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40 323.8 E 10 351.3 N

R.L. OF COLLAR: 868.6

INCLINATION OF HOLE: -25°50'

PICKED UP BY: B.H. Lennon DATE: 25.06.82

SUMMARY

LOGGED BY: S.G. Brown

RESULTS: No significant mineralisation

DRILLING

DATE COMMENCED: 16.06.82 DATE TERMINATED: 21.06.82

DRILLER/CONTRACTOR: L. Limbourne

CASING: SIZE:
DEPTH:

CORE: SIZE: 46TT
DEPTH: 53.70

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH:

REASON FOR TERMINATION: 15 m of granite

CONDITION OF HOLE ON COMPLETION:

CASING: Nil

CEMENTED: No

BORE HOLE SURVEY: No

WATER: No

COMMENTS ON DRILLING CONDITIONS: Good

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. 350/15 Bold Head

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.40	2.40	2.12	88
2.40 - 3.90	1.50	1.64	109
3.90 - 6.20	2.30	2.28	99
6.20 - 9.20	3.00	2.83	94
9.20 - 11.20	2.00	2.03	101
14.20	3.00	3.01	100
17.20	3.00	2.87	96
20.20	3.00	3.04	101
21.50	1.30	1.45	112
24.30	2.80	2.87	103
27.30	3.00	2.92	97
30.30	3.00	3.04	101
31.60	1.30	1.68	129
34.60	3.00	2.80	93
36.90	2.30	2.25	98
39.40	2.50	2.50	100
43.30	3.90	3.82	98
45.60	2.30	2.32	101
48.50	2.90	2.75	95
51.00	2.50	2.53	101
53.70	2.70	2.59	96
E.O.H.			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. 350/15 Bold Head

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
8834	18.0	19.0	1.0	1.0	0.12			
8835	19.0	20.0	1.0	1.0	0.02			
8836	36.0	37.0	1.0	1.0	0.04			
8837	36.0	37.0	1.0	1.0	0.15			
8838	38.0	39.0	1.0	1.0	0.06			
8639	39.0	40.0	1.0	1.0	0.15			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. 350/15 Bold Head

0.00 - 2.70 m	Biotite hornfels A massive black-purple biotite hornfels with a well developed spotted appearance.
2.70 m - 10.0 m	Podded biotite hornfels. Initially starts as a brown purple biotite hornfels with minor pods of calcite, garnet, pyroxene in it ; these increase in size and frequency towards 10.0 m while the matrix becomes a darkish green colour.
10.0 m - 27.2 m	Pyroxene garnet hornfels. This unit is red brown in colour with andradite garnet present throughout. The mineralisation, although present throughout is very low grade. This is unusual when the pyroxene garnet hornfels has this much andradite garnet present in it. Only 2 m of this unit were split to test the best visible mineralisation due to the workload at the assay department. A granitic dyke is present between 23.27 and 23.89 m while an aplite occurs between 26.28 and 26.77 m.
27.20 m - 35.33 m	Banded biotite pyroxene hornfels. This is a bedded unit consisting dominantly of a black biotite hornfels with minor pyroxene bands and some calcite and garnet. The bedding is irregular but generally sub parallel to the core axis.
30.60 m	Bedding is at 13°LCA.
24.10 m	Bedding 35°LCA. This is the steepest angle present.
36.33 - 39.84 m	Garnet Skarn An extremely weathered and leached garnet skarn with some mineralisation present throughout. The first metre is basically a transition zone from the banded unit above to the skarn.
39.84 - 40.54 m	Contact Zone This zone is the contact between apparently a silicified biotite hornfels and the granite. The contact between this unit and the skarn is a fault.
40.54 - 53.70 m	Bold Head Adamellite Typically containing large feldspar laths.
E.O.H.	


DDH BH 350/15
0.00 – 16.22 m.


DDH BH 350/15
16.22 – 32.44 m.


DDH BH 350/15
32.44 – 49.36 m.


DDH BH 350/15
49.36 – 53.70 m
E.O.H

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 350/14

PLANNING

PROPOSER: C. Kendall DEPTH: 45m

LOCATION: Main Decline

PURPOSE OF HOLE: Test CII Lens

PROPOSED CO-ORDS: 40 330 E 10 350 N

INCLINATION: -90°

BEARING: °Grid °Mag

TARGET: E N

DEPTH:

CHECKED BY: DATE:

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 260°38' °Grid °Mag

SURVEYED IN BY: B.L DATE:

ACTUAL CO-ORDS: 40331.5 E 10350.7 N

R.L. OF COLLAR: 868.2

INCLINATION OF HOLE: -78° 50'

PICKED UP BY: DATE:

SUMMARY

LOGGED BY: C.J. Kendall.

RESULTS: Co-ords at 50 m 10349.15N
40321.88E
R.L. 825.95

DRILLING

DATE COMMENCED: DATE TERMINATED:

DRILLER/CONTRACTOR:

CASING: SIZE:
DEPTH:

CORE: SIZE:
DEPTH:

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH:

REASON FOR TERMINATION:

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 350/14

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
5.0	5.0	4.85	97
7.8	2.8	2.70	96
9.9	2.1	2.40	114
12.6	2.7	2.60	96
14.4	1.8	1.80	100
17.0	2.6	2.70	104
20.0	3.0	3.10	103
23.0	3.0	2.60	87
26.0	3.0	3.0	100
29.0	3.0	3.0	100
31.4	2.4	2.5	104
32.0	0.6	0.6	100
33.6	1.6	1.8	113
35.1	1.5	1.5	100
36.6	1.5	1.5	100
37.2	0.6	0.6	100
38.3	1.1	1.2	109
39.4	1.1	1.1	100
40.4	1.0	1.0	100
40.9	1.5	1.5	100
42.0	1.1	1.1	100
44.6	2.6	1.5	58
45.3	0.7	1.7	243
48.0	2.7	2.7	100
51.0	3.0	2.9	97
54.0	3.0	1.2	107
57.0	3.0	3.1	103
60.0	3.0	3.0	100
62.4	2.4	2.5	104

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 350/14

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 8704	2	3	1	1	0.15			
5	3	4	1	1	0.24			
6	4	5	1	1	0.10			
7	5	6	1	1	0.11			
8	6	7	1	1	0.10			
9	7	8	1	1	0.13			
8710	8	9	1	1	0.10			
1	9	10	1	1	0.12			
2	10	11	1	1	0.12			
3	11	12	1	1	0.18			
4	12	13	1	1	0.07			
5	13	14	1	1	0.07			
6	14	15	1	1	0.10			
7	15	16	1	1	0.06			
8	16	17	1	1	0.10			
9	17	18	1	1	0.67			
8720	18	19	1	1	0.64			
1	19	20	1	1	0.15			
2	20	21	1	1	0.17			
3	21	22	1	1	0.73			
4	22	23	1	1	0.47			
5	23	24	1	1	0.48			
8751	24	25	1	1	3.40			
2	25	26	1	1	0.05			
3	26	27	1	1	0.10			
4	27	28	1	1	0.88			
5	28	29	1	1	0.94			
6	29	30	1	1	0.47			
7	30	31	1	1				

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 350/14

0 - 2.4m	BIOTITE HORNFELS (PODDED) A dark bluey grey, very fine grained unit showing small circular pods some of which contain sulphides.
2.4 - 8.4m	PYROXENE GARNET HORNFELS A partially mineralised unit consisting of grossular and andradite garnets. Fine grained with a mottled texture. A major joint at 3.2m - orientation 15°L.C.A. Prominent jointing 30°L.C.A.
8.4 - 10.0m	BIOTITE PYROXENE HORNFELS A very fine grained crudely banded unit. Bands consist of 10cm wide alternating zones of pyroxene rich and pyroxene poor material. A band of grossular garnet at 9.5m. Some calcite pods present.
10.0 - 18.5m	PYROXENE GARNET HORNFELS Same as above.
18.5 - 25.4m	GARNET HORNFELS A fairly massive andradite skarn. Heavily jointed with major joints at 19.0m and 20.3m. Pyroxene content appears to increase with depth. Mineralisation is richer in the lower 1 to 1.5 metres.
25.4 - 27.3m	MARBLE A massive crystalline marble. Has no banding or podding. Does contain minor grossular garnets.
27.3 - 30.1m	GARNET HORNFELS As above.
30.1 - 40.9m	BIOTITE PYROXENE HORNFELS (BANDED) A fine grained, strongly banded unit. Heavily jointed, joints parallel to banding 45°L.C.A. 34.1 - 34.9 A weakly mineralised zone similar to P.G.H.
40.9 - 62.4m (E.O.H.)	GRANITE Medium to coarse grained granite with even distribution of mafic minerals. Feldspar phenocrysts present in the top 1 metre and the lower 3 metres.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 350/14

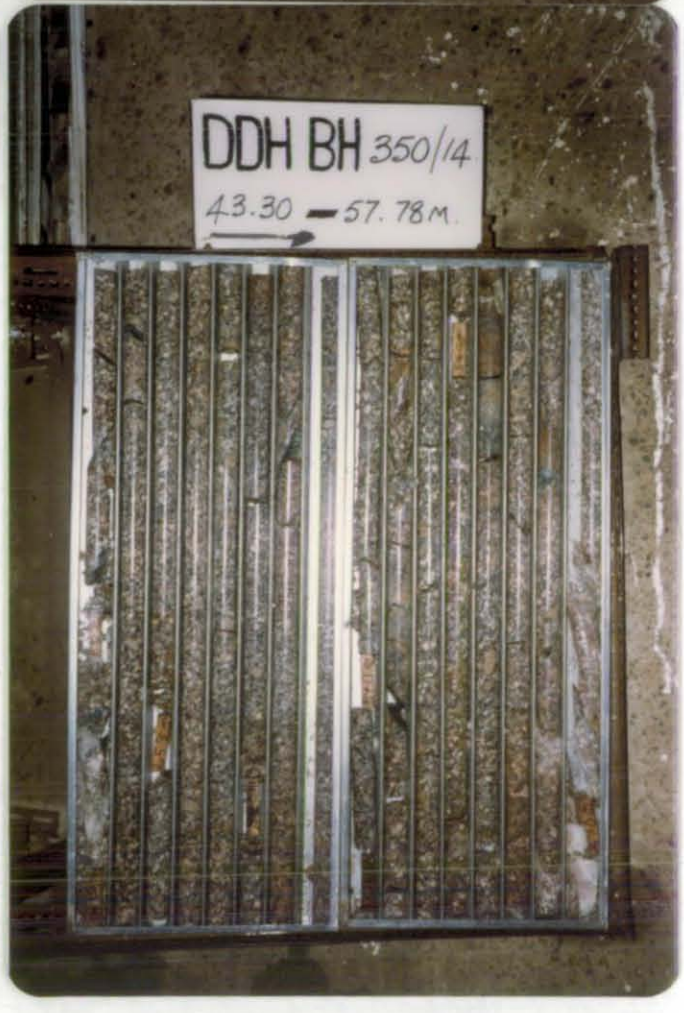
40.9 - 44.6 Granite in broken and crumbly and shows some iron staining.

57.0 - 59.0 Possible fault zone - granite is moderately decomposed.
Structure appears sub-parallel to L.C.A.


DDH BH 350/14
0.00 — 14.90m.


DDH BH 350/14
14.90 — 29.98m.


DDH BH 350/14
29.98 — 43.30m.


DDH BH 350/14
43.30 — 57.78m.


DDH BH 350/14
57.78 — 62.40 M.
E.O.H.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 350/13

PLANNING

PROPOSER: C. Kendall DEPTH: 40m

LOCATION: Decline

PURPOSE OF HOLE: Test CII Lens

PROPOSED CO-ORDS: 40 330 E 10 350 N

INCLINATION: -45°

BEARING: 270° °Grid °Mag

TARGET: E N

DEPTH:

CHECKED BY: S.G.B. DATE: 10/04/82

SURVEY

SURVEY CO-ORDS: 40330.4 E 10350.6 N

SURVEYED BEARING: 262°32' °Grid °Mag

SURVEYED IN BY: B.L. DATE:

ACTUAL CO-ORDS: 40330.4 E 10350.6 N

R.L. OF COLLAR: 868.2

INCLINATION OF HOLE: -50°

PICKED UP BY: B. Lennan DATE: 12/05/82

SUMMARY

LOGGED BY: C. J. Kendall

RESULTS: No ore grade mineralization.

DRILLING

DATE COMMENCED: DATE TERMINATED:

DRILLER/CONTRACTOR: A.D.D.

CASING: SIZE:
DEPTH:

CORE: SIZE: 46TT
DEPTH: 53.2

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 53.2

REASON FOR TERMINATION: Entered granite

CONDITION OF HOLE ON COMPLETION:

CASING: Nil

CEMENTED: No

BORE HOLE SURVEY: ~~Picked up at 50m Co ords. 10346.47N 40298.62E RL 836.66m~~

WATER: No

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 350/13

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
4.6	4.6	3.2	69
7.2	2.6	2.6	100
9.9	2.7	2.7	100
12.9	3.0	3.0	100
15.9	3.0	3.0	100
18.9	3.0	3.0	100
21.9	3.0	3.0	100
24.9	3.0	3.0	100
27.9	3.0	3.0	100
30.9	3.0	3.0	100
33.9	3.0	3.0	100
36.9	3.0	3.0	100
39.9	3.0	3.0	100
42.8	2.9	2.9	100
45.8	3.0	3.0	100
48.5	3.0	3.0	100
49.5	0.7	0.5	71
50.7	1.2	0.9	75
51.5	0.8	0.7	88
53.2	1.7	1.8	106

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 350/13

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 8758	3.0	4.0	1.0	1.0	0.10			
8759	4.0	5.0	1.0	1.0	0.16			
8760	5.0	6.0	1.0	1.0	0.14			
8761	6.0	7.0	1.0	1.0	0.10			
8762	7.0	8.0	1.0	1.0	0.06			
8763	8.0	9.0	1.0	1.0	0.05			
8764	9.0	10.0	1.0	1.0	0.09			
8765	11.0	11.0	1.0	1.0	0.14			
8766	11.0	12.0	1.0	1.0	0.10			
8767	12.0	13.0	1.0	1.0	0.09			
8768	13.0	14.0	1.0	1.0	0.10			
8769	14.0	15.0	1.0	1.0	0.10			
8770	15.0	16.0	1.0	1.0	0.10			
8771	16.0	17.0	1.0	1.0	0.15			
8772	17.0	18.0	1.0	1.0	0.22			
8773	18.0	19.0	1.0	1.0	0.07			
8774	19.0	20.0	1.0	1.0	0.066			
8775	20.0	21.0	1.0	1.0	0.12			
8776	21.0	22.0	1.0	1.0	0.20			
8777	22.0	23.0	1.0	1.0	0.13			
8778	23.0	24.0	1.0	1.0	0.11			
8779	24.0	25.0	1.0	1.0	0.04			
8780	25.0	26.0	1.0	1.0	0.34			
8781	26.0	27.0	1.0	1.0	0.06			
8782	27.0	28.0	1.0	1.0	0.12			
8783	28.0	29.0	1.0	1.0	0.11			
8784	29.0	30.0	1.0	1.0	0.26			
8785	30.0	31.0	1.0	1.0	0.23			
8786	31.0	32.0	1.0	1.0	0.11			
8787	32.0	33.0	1.0	1.0	0.75			
8788	33.0	34.0	1.0	1.0	0.06			
8789	34.0	35.0	1.0	1.0	0.08			
8790	35.0	36.0	1.0	1.0	0.12			
8791	36.0	37.0	1.0	1.0	0.15			
8792	37.0	38.0	1.0	1.0	0.17			
8793	38.0	39.0	1.0	1.0	0.11			
8794	39.0	40.0	1.0	1.0	0.07			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

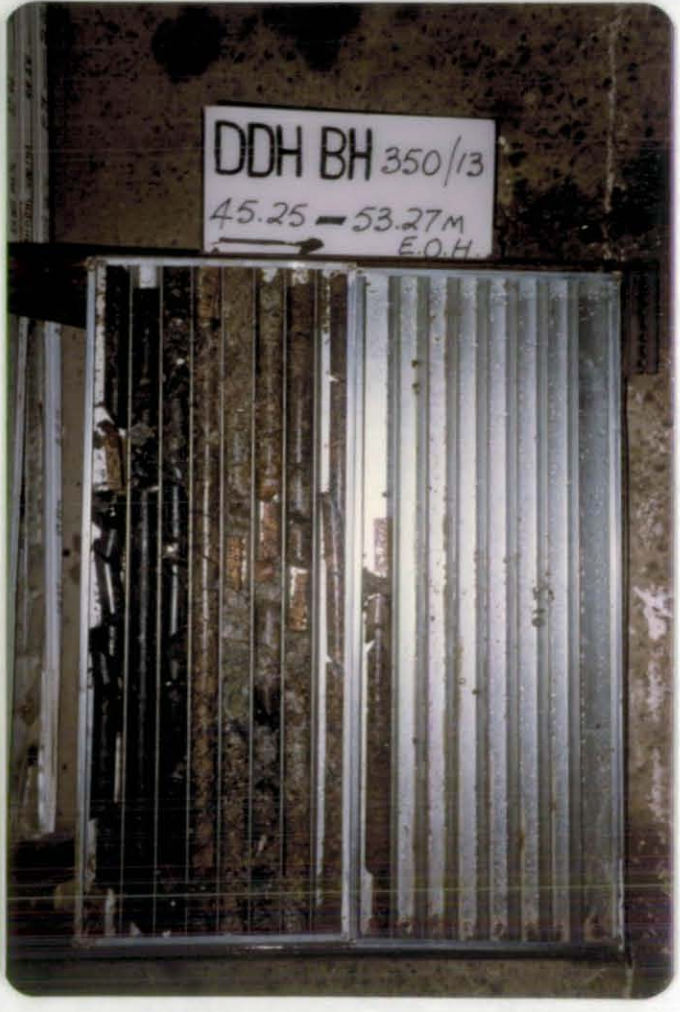
D.D.H. No. BH 350/13

0 - 4.2m	BIOTITE PYROXENE HORNFELS (PODDED) A podded unit with alternating bands of pyroxene and biotite rich material parallel to the preferred joint direction: 40°L.C.A. Pods tend to be calcite rich with some garnets included. A well developed reaction aureole exists around each pod. The unit is unmineralised.
4.2 - 11.9m	PYROXENE GARNET HORNFELS A partially mineralised unit showing some skarn development in the upper 5 metres. The lower part of the unit is a podded, patchy section, rich in pyroxene - similar to bph (above). At 9.9m there is a 10cm thick quartz.vein.
11.9 - 15.4m	BIOTITE HORNFELS (PODDED) Very similar to the upper podded sequence except there is no pyroxene visible.
15.4 - 31.0m	ANDRADITE GARNET HORNFELS A massive skarn unit showing varying degrees of andradite content. The upper 2 metees are very dark, well mineralised, the next 7 metres are very light coloured and not as well mineralised. The lower 2 metres shows some podding and a slight increase in pyroxene content.
31.0m - 32.6m	DISTURBED APLITIC UNIT A very dark, weakly mineralised unit with numerous small aplites. Aplite appearaas feldspar speckled areas.
32.6 - 47.8m	BANDED FOOTWALL BEDS A typical sequence of banded footwall beds with alternating bands of marble, biotite hornfels and pyroxene hornfels. A small aplite exists at 42.5m. Mineralisation appears very patchy.
47.8 - 52.27m E.O.H.	GRANITE A A disturbed unit of granite material showing variations from moderately fresh coarse grained, dark coloured near the top to very broken, fine grained clayey, light pink coloured. The fresh granite 51.7 is medium grained, with some large pink feldspars. Mafic content is very low.


DDH BH 350/13
0.00 — 15.78 M.


DDH BH 350/13
15.78 — 30.44 M.


DDH BH 350/13
30.44 — 45.25 M


DDH BH 350/13
45.25 — 53.27 M
E.O.H.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 350/12

PLANNING

PROPOSER: S. G. Brown DEPTH:

LOCATION: K35 Cuddy off L37 Drive

PURPOSE OF HOLE: To test C Lens

PROPOSED CO-ORDS: 40 360 E 10 350 N

INCLINATION: -70°

BEARING: 90° °Grid °Mag

TARGET: E N

DEPTH:

CHECKED BY: S. G. Brown DATE: 1/08/81

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 88° 57' °Grid °Mag

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40359.26 E 10350.55 N

R.L. OF COLLAR: 881.1

INCLINATION OF HOLE: -69° 20'

PICKED UP BY: B.H.L. DATE: 28/08/81

SUMMARY

LOGGED BY: C. J. Kendall

RESULTS: 29 - 35m 6m @ 0.65% WO3

DRILLING

DATE COMMENCED: August 81 DATE TERMINATED: September 81

DRILLER/CONTRACTOR: K.I.S.

CASING: SIZE:
DEPTH:

CORE: SIZE: 46TT
DEPTH: 99.0

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH:

REASON FOR TERMINATION: Below Ore Zone

CONDITION OF HOLE ON COMPLETION:

CASING: Pulled

CEMENTED: No

BORE HOLE SURVEY: Multi Shot

WATER: No

COMMENTS ON DRILLING CONDITIONS: OK Faults at end

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 350/12

Surveyed method: Multishot
Final depth: 99.00
Casing depth:

Depth surveyed to: 99.0
Date surveyed: September 81
Surveyed by: R.E.S.D.
Checked by:

Plotted by HP 9825

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		N	E
COLLAR	88° 57'			-69° 20'		10350.6	40359.3
10m	90° 45'	N62°45E	20° 23'	-69° 37'		350.6	362.8
19m	90° 30'	N62°30E	20° 15'	-69° 45'		350.6	365.9
28m	90° 30''	N62°30E	20° 15'	-69° 45'		350.5	369.0
37m	91° 30'	N63°30E	20° 00'	-70° 00'		350.5	372.2
46m	91° 15'	N63°15E	20° 00'	-70° 00'		350.5	375.2
55m	91° 8'	N63°08E	19° 30'	-70° 30'		350.4	378.3
64m	91° 15'	N63°15E	19° 00'	-71° 00'		350.4	381.3
73m	89° 30'	N61°30E	19° 00'	-71°00'		350.3	384.2
82m	91°00'	N63°00E	18° 30'	-71°30'		350.3	387.2
91m	90° 30'	N62°30E	18° 23'	-71° 37'		350.3	390.0
99m	91° 00'	N63°00E	18° 15'	-71° 45'		350.3	392.9
E.O.H.							

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. B350/12

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.8	2.80	2.26	81
2.8 - 5.1	2.3	2.3	100
5.1 - 8.6	3.5	3.5	100
8.6 - 11.1	2.5	2.5	100
11.1 - 12.8	1.7	1.7	100
12.8 - 15.8	3.0	3.0	100
15.8 - 18.8	3.0	2.75	92
18.8 - 23.5	4.7	4.7	100
23.5 - 25.0	1.5	1.5	100
25.0 - 26.0	1.0	1.0	100
26.0 - 29.0	3.0	3.0	100
29.0 - 31.3	2.3	2.3	100
31.3 - 34.10	2.8	2.8	100
34.1 - 37.0	2.9	2.9	100
37.0 - 40.0	3.0	3.0	100
40.0 - 43.0	3.0	3.0	100
43.0 - 46.0	3.0	3.0	100
46.0 - 49.0	3.0	3.0	100
49.0 - 51.9	2.9	2.9	100
51.9 - 54.9	3.0	3.0	100
54.9 - 57.7	2.8	2.8	100
57.7 - 60.1	2.4	2.4	100
60.1 - 61.4	1.3	1.2	92
61.4 - 64.3	2.9	2.9	100
64.3 - 67.3	3.0	3.0	100
67.3 - 70.3	3.0	3.0	100
70.3 - 73.5	3.2	3.2	100
73.5 - 75.8	2.3	2.3	100
75.8 - 78.7	2.9	2.9	100
78.7 - 81.7	3.0	3.0	100
81.7 - 84.7	3.0	3.0	100
84.7 - 88.0	3.3	3.3	100
88.0 - 90.0	2.0	2.0	100
90.0 - 93.0	3.0	3.0	100
93.0 - 97.0	4.0	4.0	100
97.0 - 98.0	1.0	1.0	100
98.0 - 99.0	1.0	1.0	100

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 350/12

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 8652	14.0	15.0	1.0	1.0	0.62			
8653	15.0	16.0	1.0	1.0	1.40			
8654	16.0	17.0	1.0	1.0	0.21			
8655	23	24	1.0	1.0	0.44			
8656	24	25	1.0	1.0	0.08			
8657	28	29	1.0	1.0	0.14			
8658	29	30	1.0	1.0	1.20			
8659	30	31	1.0	1.0	0.65			
8660	31	32	1.0	1.0	0.74			
8661	32	33	1.0	1.0	0.55			
8662	33	34	1.0	1.0	0.32			
8663	34	35	1.0	1.0	0.44			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 350/12

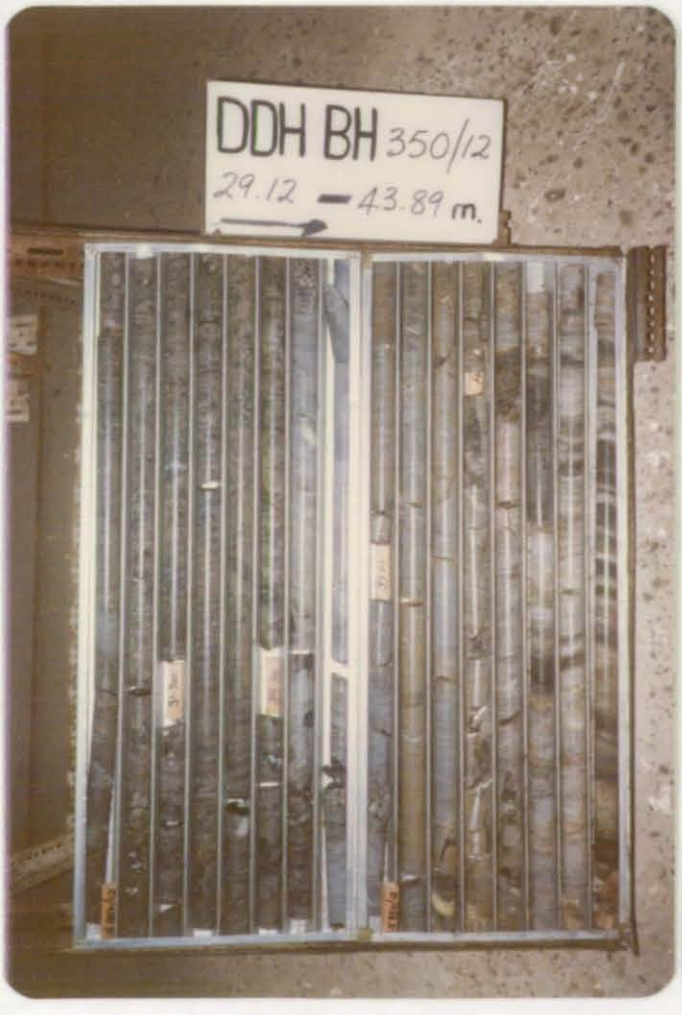
0 - 12.8m	BIOTITE HORNFELS
	Dark grey to black colour with a mottled texture. Core is heavily broken with prominent angles 45°LCA and 20°LCA. Iron staining from 4.8 - 5.1m. Jointing 6-10 joints/metre. Zone of broken core (calcite crud) from 8.9 to 9.2m. The biotite hornfels tend to become podded with depth and grades in pgh.
12.8 - 18.0m	PYROXENE GARNET HORNFELS
	Green to green brown in colour, randomly podded showing some mottling. There are numerous calcite veins and calcite pods with reaction rims. Small grossular garnets are randomly distributed and do not appear to be mineralised. Jointing is irregular. Major calcite veins appear parallel to L.C.A. From 13.8 to 14.8, jointing is 45°L.C.A.
18.0 - 20.3m	PODDED BIOTITE PYROXENE HORNFELS
	A pyroxene rich, podded unit showing much larger pods than in pgh. The composition of the pods appears the same as in pgh. Jointing is chlorite filled at 10°, 60°L.C.A. From 20.3 to 20.8m fault. Heavily weathered material showing evidence of shearing and some alignment of schistosity.
20.8 - 35.0m	PYROXENE GARNET HORNFELS
	A grey green unit with pyroxene content and number of pods decreasing with depth. The unit grades into andradite skarn with depth.
35.0 - 41.0m	MARBLE
	Slightly banded marble, weakly jointed. A major joint at 40m parallel to L.C.A.
41.0 - 49.0m	BANDED FOOTWALL BEDS
	Major replacement zone from 43.0 to 46.2 with mostly grossularite.
49.0 - 51.0m	BIOTITE HORNFELS
	A zone of massive biotite hornfels with minor pyroxene content. Some banding is evident.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 350/12

51.0 - 60.7m	BANDED FOOTWALL BEDS An unmineralised series of bh/ch interbeds.
60.7 - 61.4m	FAULT Clay filled faulted zone.
61.4 - 81.0m	BANDED FOOTWALL BEDS Footwall interbeds showing some replacement to 68.2m. Barren bh/ch to 81.0m. Some sulphides visible along bedding.
81.0 - 96.8m	LOWER VOLCANICS A dark grey unit with mottled appearance. Sulphides are disseminated throughout. Unit displays an interfingering effect between lighter and darker coloured material. The lighter coloured material is feldspar rich. Mica flakes are present but show no preferred orientation. A narrow aplite vein from 94.0 to 95.5 at 30°L.C.A. Feldspar phenocrysts visible at the end of the unit.
96.8 - 99.0 (E.O.H.)	FAULT BRECCIA Clasts of aplite, lower volcanics in a clay rick matrix.


DDH BH 350/12
29.12 — 43.89 m.


DDH BH 350/12
43.89 — 58.94 m.


DDH BH 350/12
58.94 — 73.73 m.


DDH BH 350/12
73.73 — 88.71 m.


DDH BH 350/12
88.71 — 99.00 m.
E.O.H.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 350/11

PLANNING

PROPOSER: S.G Brown DEPTH: 65 m

LOCATION: L37 Drill Cuddy

PURPOSE OF HOLE: To test CI CII D. Lens

PROPOSED CO-ORDS: 40 360 E 10 350 N

INCLINATION: -80^{o}

BEARING: 270^{o} ^{o}Grid ^{o}Mag

TARGET: E N

DEPTH:

CHECKED BY: S.G.B. DATE: 7.8.81

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 279^{o} ^{o}Grid ^{o}Mag

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40 358.9 E 10 350.2 N

R.L. OF COLLAR: 881.2

INCLINATION OF HOLE: -85^{o}

PICKED UP BY: B. Lennon DATE: 20.8.81

SUMMARY

LOGGED BY: C. KENDALL

RESULTS: 3m @ 1.77%
18m @ 0.80% WO_3

DRILLING

DATE COMMENCED: 14.8.81 DATE TERMINATED:

DRILLER/CONTRACTOR: K.I.S. L. Limbourne

CASING: SIZE:
DEPTH:

CORE: SIZE: 46TT
DEPTH: 64.0

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 64.0m

REASON FOR TERMINATION: Below Ore Zone

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED: No

BORE HOLE SURVEY: Multi Shot

WATER: No

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 350/11

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.7	2.7	2.20	81
2.7 - 5.20	2.50	2.50	100
5.20 - 6.40	1.20	1.10	92
6.40 - 8.30	1.90	1.80	95
8.30 - 11.60	3.30	3.30	100
11.60 - 14.60	3.00	2.90	97
14.60 - 17.60	3.00	2.90	97
17.60 - 20.60	3.00	2.90	97
20.60 - 24.30	3.70	3.30	89
24.30 - 26.90	2.60	2.55	98
26.90 - 29.90	3.00	3.00	100
29.90 - 32.90	3.00	2.95	98
32.90 - 35.90	3.00	3.00	100
35.90 - 38.30	2.40	2.25	94
38.30 - 40.80	2.50	2.40	96
40.80 - 43.80	3.00	2.90	97
43.80 - 46.80	3.00	2.80	93
46.80 - 49.80	3.00	3.00	100
49.80 - 52.80	3.00	3.00	100
52.80 - 55.80	3.00	3.00	100
55.80 - 59.00	3.20	2.90	91
59.00 - 61.00	2.00	1.60	80
61.00 - 64.00	3.00	2.80	93

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 350/11

Surveyed method:
Final depth:
Casing depth:

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

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.			
Collar				- 85.00	279.00		
10 m	252°15'	S72°15'W	5°38'	174.37	280.25		
19	250°30'	70°30'	5°38'	174.37	278.50		
28	251°30'	71°30'	5°45'	174.25	279.50		
37	251°00'	71°00'	5°53	174.12	279.00		
46	253°15'	73°15'	5°45	174.25	281.25		
55	253°00'	73°00'	6°15'	173.75	281.00		
64	251°00'	71°00'	6°15'	173.75	279.00		
	EOH						

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 350/11

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 8579	13.5	14.5	1.0	1.0	0.96			
80	14.5	15.5	1.0	1.0	5.60			
81	15.5.	16.5	1.0	1.0	0.35			
82	22.00	23.00	1.0	1.0	3.00			
83	23.00	24.00	1.0	1.0	0.75			
84	24.00	25.00	1.0	1.0	0.20			
85	25.00	26.00	1.0	1.0	0.20			
86	26.00	27.00	1.0	1.0	0.07			
87	27.00	28.00	1.0	1.0	0.20			
88	28.00	29.00	1.0	1.0	1.20			
89	29.00	30.00	1.0	1.0	0.66			
90	30.00	31.00	1.0	1.0	1.08			
91	31.00	32.00	1.0	1.0	1.16			
92	32.00	33.00	1.0	1.0	0.24			
93	33.00	34.00	1.0	1.0	0.37			
94	34.00	35.00	1.0	1.0	1.64			
95	35.00	36.00	1.0	1.0	0.75			
96	36.00	37.00	1.0	1.0	0.74			
97	37.00	38.00	1.0	1.0	1.06			
98	38.00	39.00	1.0	1.0	0.86			
99	39.00	40.00	1.0	1.0	0.48			
8600	43.6	44.6	1.0	1.0	0.55			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 350/11

0.00 - 10.6 m **BIOTITE HORNFELS**

A fine grained grey-black biotite hornfels showing some podding. The colour around the pods varies from grey to green depending on pyroxene content.
The major podding is concentrated from 2.7 m to 8.8 m.

The pods consist of pyroxene and calcite with some minor sulphides visible.

Core is broken and jointed from 5.0 to 5.2 m and 6.0 to 6.4 m. Orientation 10^{o} LCA.
Jointing at 9.5 m 32^{o} LCA.

10.6 - 12.5 **BIOTITE PYROXENE HORNFELS**

Similar to above except pyroxene content higher and number of pods greater. Pods tend to be oblong/rectangular, rather than circular and all contain calcite. Some pods show remnant bedding (orientation 60^{o} LCA)

Jointing at 12.3 m 20^{o} LCA Calcite filled.

12.5 - 17.8 **PYROXENE GARNET HORNFELS**

12.5 - 13.5 Heavilly podded and pyroxene rich. Not mineralised. Very few garnets visible. This unit is very similar to the previous interval.

13.5 - 16.3 A mineralised garnet skarn showing andradite garnets in a clacite matrix. Mineralisation is very patchy with some large scheelite crystals visible.
Best grade 14.9 m - 15.3 m 1% WO_3 est. very fine grained skarn with small garnets visible.

16.3 - 17.8 Very few garnets obvious, no pods, colour mottled.

Jointing 10^{o} LCA
30^{o} LCA
60^{o} LCA

17.8 - 22.3 **PODDED BIOTITE PYROXENE HORNFELS**

A fine grained pyroxene rich hornfels showing varying degrees of podding.
Pods are mainly oblong and range in size from 2 mm to 3 cm.
At 20.9 mm, pods have been leached out.
From 20.1 to 20.4 a fine grained aplite, almost a micro-granite 30^{o} LCA.
Possible fault zone at 21.9 mm.

Jointing 40^{o}LCA
35^{o}LCA
10^{o}LCA

22.3 - 33.8 **PYROXENE GARNET HORNFELS (PODDED)**

A mineralised unit showing some podding. Mineralisation is patchy with barren biotite inerbeds regularly spaced to 27.0 m.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 350/11

22.3 - 33.8 m PYROXENE GARNET HORNFELS (PODDED)

Best Grade ($\%WO_3$) appears from lamping to the associated with coarser grained material.

Pods are a mixture of andradite and grossular with calcite. All show some degree of pyroxene enrichment aroung the rim. A 20 cm wide quartz vein at 27.6 m.

33.8 - 34.0 BIOTITE HORNFELS

A narrow band of biotite horfels separating the pyroxene garnet hornfels and the massive skarn. This band contains small amounts of pyroxene and grossularite.

34.0 - 39.5 GARNET HORNFELS

A massive andradite skarn with fine grained scheelite disseminated evenly throughout.

39.5 - 40.9 MARBLE

A light grey to grey banded unit with a sugary texture show small garnets throughout.

Orientation of banding 50° LCA. Narrow biotite bands perpendicular to LCA.

40.9 - 43.6 BANDED FOOTWALL BEDS

Banding 63 ° LCA

Fe stained calcite filled joint 24° LCA.
Alternating bands of biotite hornfels, marble, biotite pyroxene hornfels.
A no mineralised unit.
Bands 1 - 3 cm wide.

43 .6 - 44.77 MINERALISED BANDED FOOTWALL BEDS

Marble bands partly replaced. Replacement associated with with an increase in sulphide content and both garnets (adradite and grossular) Biotite hornfels bands completely unchanged.
Scheelite dispension very patchy.

44.77 - 51.50 BANDED FOOTWALL BEDS

Bandy less obvious that above.
Possible fault zone at 47.7 m where core is very broken and crumbly.
Some bands show a mottled tecture suggesting possible replacement on a small scale. The mottling increases up to the zone of broken core. Sequence the repeated to 51.5 m.

51.5 - 51.2 MINERALISED BANDED FOTTWALL BEDS

A weakly mineralised zone. Sceelite very patchy.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 350/11

52.2 - 55.8 BANDED FOOTWALL BEDS

The marble bands replaced by grossularite. Very weakly mineralised. Pods show some deformation.
Replacement garnets are very course grained.

55.8 - 60.0 BANDED FOOTWALL BEDS

Essentially and unreplaced unit showing considerable Fe Staining especially associated with the marble bands.
Main orientation of bands 60° LCA
Bands tend to disc easily.
The narrow bands nearer the replacement zone (55.8 m) have a more irregular orientation.

General ground conditions deteriorate markedly near the granite contact.

60.0 - 64.0 GRANITE

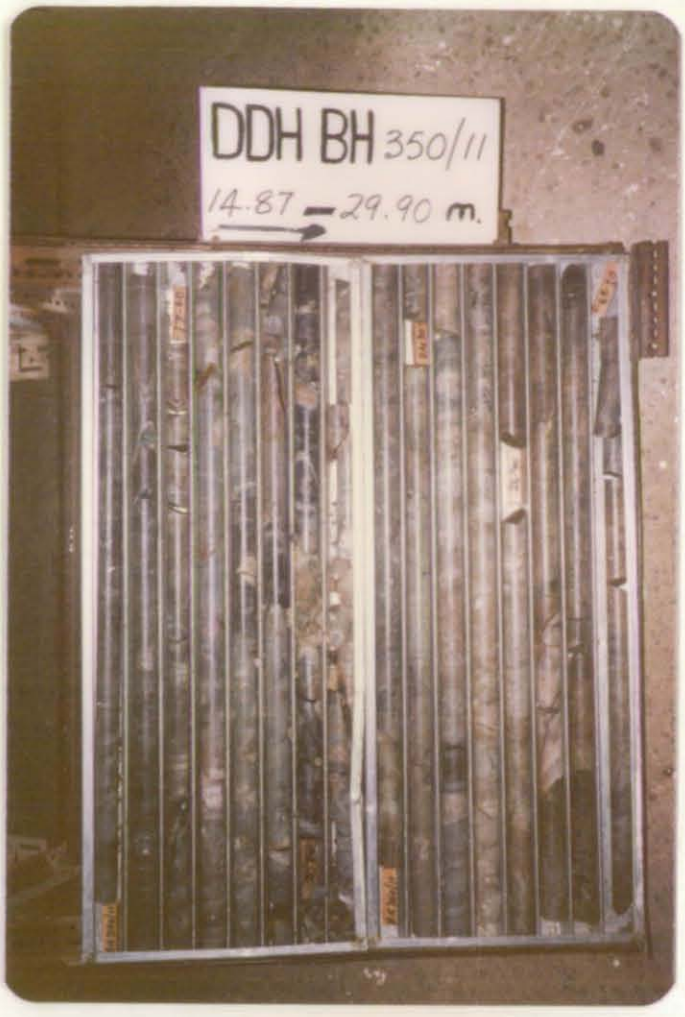
60.0 - 61.0 Mafic rich, coarse grained feldspathic, red to green-black colour. Very spotty and heavily decomposed.

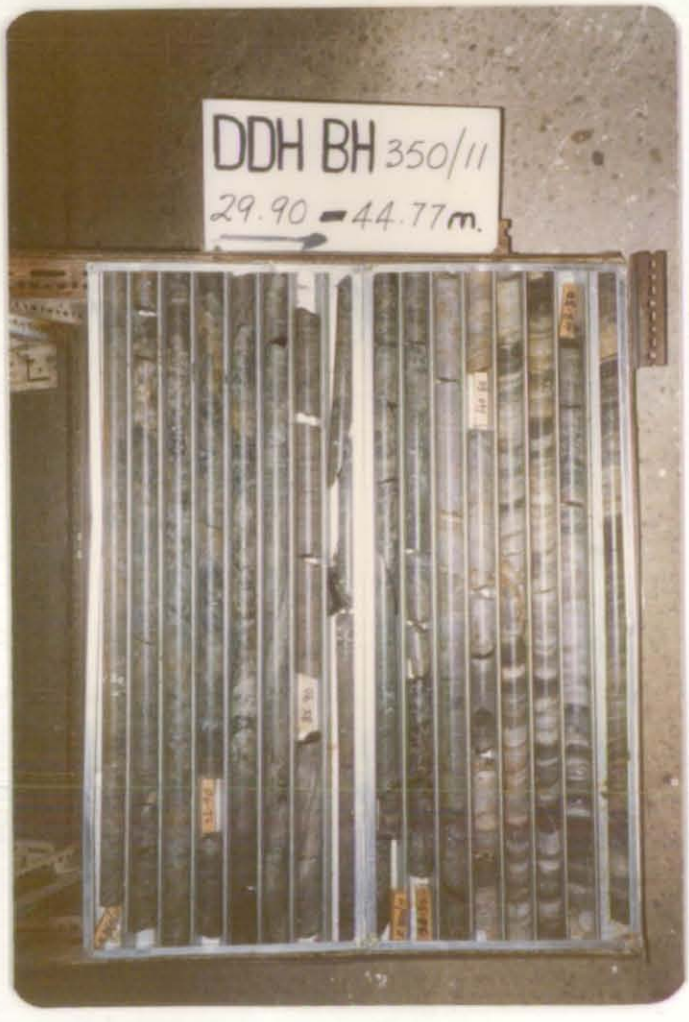
61.0 - 62.0 Pink in colour,
Finer grained, larger feldspars, mafics occur in bands.

62.0 - 64.0 Fresh, medium grained granite with mafics evenly distributed.

EOH 64.0 m


DDH BH 350/11
0.00 – 14.87 m.


DDH BH 350/11
14.87 – 29.90 m.


DDH BH 350/11
29.90 – 44.77 m.


DDH BH 350/11
44.77 – 59.48 m.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. B350/10 Bold Head

PLANNING
PROPOSER: A.J. Cullum DEPTH: 25.0 m
LOCATION: Main Decline + 870 m
PURPOSE OF HOLE: To test ground conditions
PROPOSED CO-ORDS: E N
INCLINATION:
BEARING: °Grid °Mag
TARGET: E N
DEPTH:
CHECKED BY: S.G. Brown DATE: 27.08.81

SURVEY
SURVEY CO-ORDS: E N
SURVEYED BEARING: 206°37' °Grid °Mag
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40 324.09 E 10 336.66 N
R.L. OF COLLAR: 868.6
INCLINATION OF HOLE: -6°06'
PICKED UP BY: B.H. Lennon DATE: 03.09.81

SUMMARY
LOGGED BY: S.G. Brown
RESULTS: No major faults

DRILLING
DATE COMMENCED: 03.08.81 DATE TERMINATED: 05.08.81
DRILLER/CONTRACTOR: K.I.S.
CASING: SIZE:
DEPTH: °
CORE: SIZE: 46TT
DEPTH: 24.15
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION: Nil
FINAL DEPTH: 24.15
REASON FOR TERMINATION: Far enough
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: No
WATER: No
COMMENTS ON DRILLING CONDITIONS: Ok

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. 350/10 Bold Head

Surveyed method: Not surveyed.
Final depth:
Casing depth:

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

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.			

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. 350/10 Bold Head

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.70	2.70	2.15	80
2.70 - 4.60	1.90	1.90	100
4.60 - 6.20	1.60	1.35	84
6.20 - 7.80	1.60	1.75	109
7.80 - 11.10	3.30	3.30	100
11.10 - 13.30	2.20	2.10	95
13.30 - 15.40	2.10	2.10	100
15.40 - 18.40	3.00	2.90	97
18.40 - 20.50	2.10	1.80	86
20.50 - 23.50	3.00	3.00	100
23.50 - 24.15	0.65	0.65	100
E.O.H.			

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. 350/10 - Bold Head

0.00 - 24.15 m	Biotite Hornfels Initially a fairly blotchy biotite hornfels becoming more uniform above the 6.0 m mark. A small aplite dyke is present between 14.0 m and 14.7 m. Some bedding is apparent at 15.4 m at 30°LCA.
E.O.H.	


DDH BH 350/10E
0.00 – 14.85 m.


DDH BH 350/10E
14.85 – 23.50 E.O.H m.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. β350/9E

PLANNING

PROPOSER: A. Cullum DEPTH: 25 m

LOCATION: Main Decline + 870 m

PURPOSE OF HOLE: To test ground conditions

PROPOSED CO-ORDS: E N

INCLINATION:

BEARING: °Grid °Mag

TARGET: E N

DEPTH: 25 m

CHECKED BY: S.G. Brown DATE: 01.08.81

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 256°10' °Grid °Mag

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40 321.65 E 10 347.82 N

R.L. OF COLLAR: 869.32

INCLINATION OF HOLE: +3°34'

PICKED UP BY: B. Lennon DATE: 03.09.81

SUMMARY

LOGGED BY: S.G. Brown

RESULTS: No major faults.

DRILLING

DATE COMMENCED: 05.08.81 DATE TERMINATED: 06.08.81

DRILLER/CONTRACTOR: K.I.S.

CASING: SIZE:
DEPTH:

CORE: SIZE: 46TT
DEPTH: 25.5

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION: Nil

FINAL DEPTH: 25.5

REASON FOR TERMINATION: Far enough

CONDITION OF HOLE ON COMPLETION:

CASING: Nil

CEMENTED: No

BORE HOLE SURVEY: No

WATER: Nil

COMMENTS ON DRILLING CONDITIONS: Ok

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. 350/9 Bold Head

Surveyed method: Not surveyed.
Final depth:
Casing depth:

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

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.			

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. 350/9 Bold Head

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.70	2.70	2.10	78
2.70 - 3.80	1.10	1.10	100
3.80 - 5.50	1.70	1.90	112
5.50 - 7.90	2.40	2.40	100
7.90 - 10.00	2.10	1.95	93
10.00 - 13.10	3.10	3.00	97
13.10 - 15.60	2.50	2.60	104
15.60 - 18.40	2.80	2.70	96
18.40 - 20.50	2.10	2.00	95
20.50 - 23.50	3.00	2.90	97
23.50 - 25.50	2.00	1.85	93
E.O.H.			

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. 350/9 Bold Head Mine

0.00 - 25.50 m Biotite Hornfels

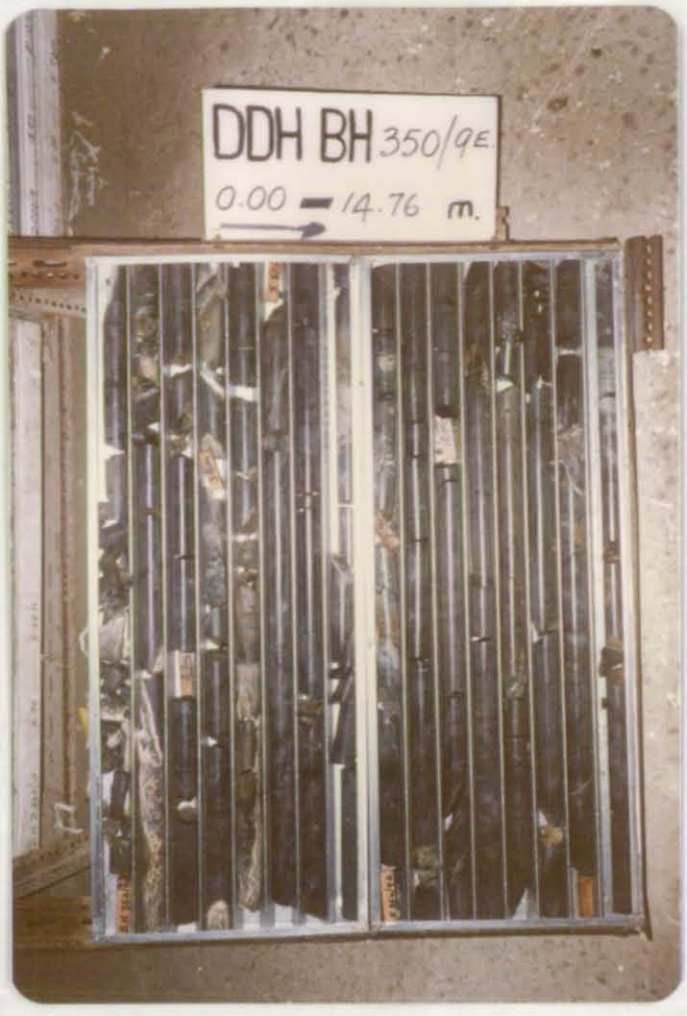
A unit of fairly massive biotite hornfels with some minor bedding apparent at about 12.7 m at 30° L.C.A.

Below this point the biotite hornfels has a blotchy appearance which develops into distinct pods towards the 25.5 m mark.

The first 50 cm of core are broken while from 1.4 to 1.7 m a calcite filled fracture occurs at about 10° L.C.A.

A similar fracture occurs at 4.0 m to 4.3 m.

E.O.H.


DDH BH 350/9E
0.00 — 14.76 m.


DDH BH 350/9E
14.76 — 25.50 E.O.H. m.

GEOPEKO DIVISION - King Island

LOG OF D.D.H. No. BH 350/8

PLANNING

Proposer: ...J. M. Clark..... Depth: ..25.....

Location: ...Q42 Drive.....

.....

Purpose of Hole: ..To test BF.....

Co-ords: .40395..... E ..10350..... N

Inclination: ..-36°.....

Bearing: .....090.....°Grid .....°Mag

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

Depth: .....

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

SURVEY

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

Surveyed Bearing: 090.....°Grid .....°Mag

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

Actual Co-ords: ..40398.8..... E ..10350.5..... N

R.L. of Collar: ..951.5.....

Inclination of Hole: ..-31°.....

Picked up By: .....B. Lennon..... Date ..4-8-1978...

SUMMARY

Logged By: .J. M. Clark..... Date .....

Results: .14-16m, 2m at 0.54% WO_3, 0.02% Mo.....

.....

.....

.....

DRILLING

Date Commenced: ..28-7-1978..... Date Terminated..4-8-1978...

Driller/Contractor .K.I.S.....

Casing:	Size :	B
	Depth :	1.0m
Core:	Size :	46TT
	Depth :	24.00m

Wedge Runoff:

Wedge placed: Depth

Proposed by: Approved by

Reason .

Extension:

Final Depth: 24.00m

Reason for Termination: Through boundary fault

Condition of hole on completion:

Casing;

Cemented:

Bore hole survey: Single Shot Camera

Water:

Comments on Drilling Conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 350/8

Survey method: Single Shot Camera
Final depth: 24.0m
Casing depth: 1.0m

Depth surveyed to: 24.0m
Date surveyed : 1-8-1978
Surveyed by: L. Denby
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	E
4	090	64°	55	-35°	2.29	-0.11	3.27
24	089	61°	55	-35°	13.77	0.18	19.65

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 350/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 5.0	5.0	4.40	88
7.1	2.1	2.05	98
10.0	2.9	2.9	100
12.5	2.5	2.45	98
15.1	2.6	0.6	100
17.3	2.2	2.2	100
20.1	2.8	2.70	96
23.5	3.4	3.20	94
24.0	0.5	0.5	100

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/8

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6603	1	2	1.0	1.0	0.13	0.02		
4	2	3	"	"	0.13	0.01		
5	3	4	"	"	<0.01	0.02		
6	4	5	"	"	0.18	0.01		
7	5	6	"	"	0.02	0.01		
8	6	7	"	"	<0.01	<0.01		
9	7	8	"	"	<0.01	<0.01		
10	8	9	"	"	<0.01	<0.01		
11	13	14	"	"	<0.01	<0.01		
12	14	15	"	"	0.45	0.02		
13	15	16	"	"	0.64	0.02		
14	16	17	"	"	0.19	0.07		
15	17	18	"	"	0.25	0.02		
16	18	19	"	"	0.39	0.02		
17	19	20	"	"	<0.01	0.02		
18	20	21	"	"	0.05	0.03		
19	21	22	"	"	0.09	0.02		
20	22	23	"	"	<0.01	0.02		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/8

0.0 - 6.40m — PYROXENE - GARNET HORNFELS

Small calcite and calcite - grossular pods are present in a matrix of pyroxene and actinolite with coarse grained epidote, grossular and calcite occasionally present.

Several medium grained crystals of scheelite are present (<1 per metre).

The end of the unit is transitional grossular - calcite with the marble unit below.

Fractures / m = 3

6.40 - 14.60m — MARBLE

Grey medium marble. At the top of the unit (6.4-10m) fine grained light green pyroxene and clusters of light brown grossular are present.

At 14.0m bedding appears to be 54° to the core axis.

Fractures / m = 6

14.60 - 23.00m — BANDED FOOTWALL BEDS

Interbedded pyroxene and garnet hornfels with lesser amounts of marble and biotite hornfels.

14.6 - 15.3m. Andradite garnet hornfels containing abundant finely disseminated scheelite.

18.3 - 18.6m. Garnet - pyroxene hornfels containing medium grained scheelite. Other smaller beds containing scheelite are also present.

At 19.0m bedding is 60° to core axis. Below 22m the bedding is very disturbed, and appears to have been sheared at 34° to core axis.

23.00 - 24.00m — QUARTZITE

Dark brown fine grained quartzite. The rock appears to be severely sheared at 38° to core axis, and is possibly still part of the fault zone. Core is very broken.

Fractures / m >20

EOH 24.00m.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 350/8

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
6606	0.18	0.01	8162	0.29	<0.01	8163	0.270		8164	0.26		
6616	0.39	0.02	8165	0.65	<0.01	8166	0.610		8167	0.60		


DDH BH 350/8
0.00 — 15.76 m.


DDH BH 350/8
15.76 — 24.00 m.
E.O.H.

GEOPEKO DIVISION - King Island

LOG OF D.D.H. No. BH 350/7

PLANNING

Proposer: J. Clark Depth: 50

Location: Q42 Drive

Purpose of Hole: To test BF1

Co-ords: 40395 E 10350 N

Inclination: -64°

Bearing: 090° °Grid °Mag

Target: E N

Depth:

Approved by: Date:

SURVEY

Survey Co-ords: E N

Surveyed Bearing: 92° 16' °Grid °Mag

Surveyed in by: Date

Actual Co-ords: 40397.7 E 10350.4 N

R.L. of Collar: 951.5

Inclination of Hole: -63°

Picked up By: Brian Lennon Date 26-7-1978

SUMMARY

Logged By: J. Clark Date

Results: No economic intersection.

DRILLING

Date Commenced: 17-7-1978 Date Terminated 27-7-1978

Driller/Contractor K.I.S.

Casing:	Size :	BQ
	Depth :	1.0m
Core:	Size :	46TT
	Depth :	50.0

Wedge Runoff:

Wedge placed: Depth

Proposed by: Approved by

Reason

Extension:

Final Depth: 50.0

Reason for Termination: In unmineralized banded footwall beds.

Condition of hole on completion:

Casing;

Cemented:

Bore hole survey: Singleshot Camera

Water:

Comments on Drilling Conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 350/7

Survey method: Singleshot Camera
Final depth: 50.0 m
Casing depth: 1.0 m

Depth surveyed to: 50.0m
Date surveyed 27.7.1978
Surveyed by: L. Denby
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	E
20.0	087	59	26°30'	-63.5°	17.90	0.47	8.91
50.0	088	60	26°	-64°	44.86	0.93	22.05

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 350/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.3	3.3	3.0	0.91
- 6.1	2.8	2.8	100
- 10.8	4.7	4.7	100
- 13.8	3.0	3.0	100
- 16.5	2.7	2.7	100
- 19.5	3.0	3.0	100
- 21.9	2.4	2.4	100
- 25.0	3.1	3.05	98
- 28.0	3.0	3.0	100
- 30.4	2.4	2.4	100
- 33.3	2.9	2.8	100
- 36.2	2.9	2.9	100
- 39.2	3.0	3.0	100
- 42.1	2.9	2.9	100
- 44.0	1.9	1.9	100
- 47.1	3.1	3.1	100
- 50.0	2.9	2.8	100

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/7

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6562	0	1	1.0	1.0	0.05	0.06		
63	1	2	"	"	0.01	0.03		
64	2	3	"	"	0.07	0.05		
65	3	4	"	"	0.06	0.01		
66	4	5	"	"	0.04	0.02		
67	5	6	"	"	0.20	0.01		
68	6	7	"	"	0.12	0.02		
69	7	8	"	"	0.19	0.02		
70	8	9	"	"	0.07	0.02		
71	9	10	"	"	0.18	0.02		
72	10	11	"	"	0.32	0.02		
73	11	12	"	"	0.09	0.02		
74	12	13	"	"	0.02	0.02		
75	13	14	"	"	0.27	0.01		
76	14	15	"	"	<0.01	<0.01		
77	19	20	"	"	<0.01	<0.01		
78	20	21	"	"	0.23	0.02		
79	21	22	"	"	0.02	0.01		
80	22	23	"	"	0.28	0.04		
81	23	24	"	"	0.20	0.02		
82	24	25	"	"	0.06	0.02		
83	25	26	"	"	0.07	0.01		
84	26	27	"	"	0.02	0.02		
85	27	28	"	"	<0.01	0.02		
86	28	29	"	"	0.02	0.04		
87	29	30	"	"	0.01	0.03		
88	30	31	"	"	<0.01	<0.01		
89	31	32	"	"	<0.01	0.01		
90	32	33	"	"	0.07	0.01		
91	33	34	"	"	0.12	<0.01		
92	34	35	"	"	0.02	<0.01		
93	35	36	"	"	0.04	<0.01		
94	36	37	"	"	<0.01	<0.01		
95	37	38	"	"	<0.01	0.06		
96	38	39	"	"	<0.01	0.01		
97	39	40	"	"	0.01	0.03		
98	40	41	"	"	<0.01	0.01		
99	41	42	"	"	0.18	<0.01		
6600	42	43	"	"	0.25	<0.01		
1	43	44	"	"	0.02	0.02		
2	44	45	"	"	0.02	0.03		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/7

0.0 - 13.50 m — PYROXENE-GARNET HORNFELS

Irregularly shaped calcite pods often rimmed by grossular are present in a matrix of pyroxene, grossular calcite and less commonly biotite.

0.0-6.70 m. Abundant biotite in matrix. Minor medium and coarse grained scheelite are irregularly distributed in this section of the unit, with most at 3.6 m and 6.4 m.

Towards the end of the unit podding is slightly obliterated by coarse grained calcite-epidote development.

13.0-13.5 m. Thickly disseminated fine grained scheelite in pyroxene-grossular.

Fractures / m = 3.

13.50 - 20.40 m — MARBLE

Grey to white medium grained relatively impure marble.

13.5-15.6 m. Coarse grained white calcite containing rounded aggregates of grossular up to 1cm diameter are present in a matrix of grey marble containing minor fine grained pyroxene and grossular.

15.6-17.0 m. White calcite veinlets are now soft unconsolidated masses with small fragments of grossular in them. (Have the calcite veins expanded?).

17.0-20.4 m. Grey to white marble has minor fine grained pyroxene and occasional aggregates of grossular.

Scheelite is not present.

Fractures / m = 4.

20.40 - 46.30 m — BANDED FOOTWALL BEDS

Interbedded marble, pyroxene and biotite hornfels. Towards the end of the unit bedding becomes disturbed.

20.4 - 20.9 m. Thickly disseminated fine grained pyrite in pyroxene - grossular - andradite - calcite matrix.

22.6 - 23.3 m, 23.8 - 24.1 m. Beds of garnet - pyroxene hornfels containing fine grained scheelite within barren beds of pyroxene hornfels.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/7

27.5 - 30.0 m. Biotite hornfels which is more broken than the remainder of the unit. Small pug zones indicate possible faults at 27.7 m, 27.9 m and 28.4 m.

30.0 - 43.2 m. Marble forms about half this section, with pyroxene hornfels, beds of barren grossular, minor biotite hornfels and mineralized andradite-pyroxene-calcite beds. The latter scheelite bearing beds contain noticeably large amounts of chalcopyrite and pyrrhotite.

41.4 - 41.5 m, 41.6 - 42.5 m, 42.8 - 42.9 m. Fine grained scheelite present in pyroxene - andradite - calcite beds with chalcopyrite and pyrrhotite.

43.2 m. Calcite vein causing minor brecciation of adjacent biotite hornfels.

43.2 - 46.3 m. Very disturbed biotite pyroxene - hornfels. Small fractures are coated with reddish brown iron-oxides.

Depth	Bedding / CA
21.9	36°
25.1	30°
33.0	52°
41.2	27°
43.0	subparallel
43.8	54° (disturbed)

Fractures / m = 4

46.0 - 50.00 m QUARTZITE

Very dark grey fine grained quartzite. Small fractures have iron oxide coatings.

46.3 - 46.5 m. Fault zone containing broken core and minor recemented breccia.

48.5 - 48.6 m. Banded? pyroxene-plagioclase rock containing minor fine grained scheelite. Rocks like this have been found in R60 drive adjacent to the boundary fault.

Fractures / m = 6

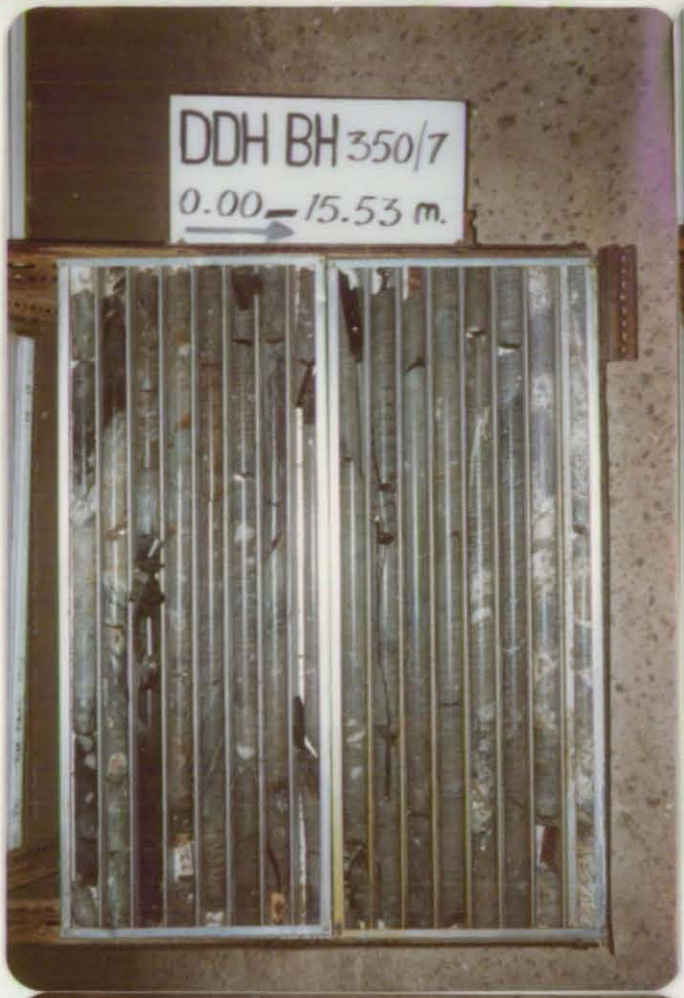
EOH 50.0 m.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 350/7

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
6567	0.20	0.01	8150			8151			8152			
6578	0.23	0.02	8153	0.35	<0.01	8154	0.425		8155	0.37		
6590	0.07	0.01	8156	0.13	<0.01	8157	0.190		8158	0.16		
6600	0.18	<0.01	8159	0.31	<0.01	8160	0.375		8161	0.33		


DDH BH 350/7
0.00 – 15.53 m.


DDH BH 350/7
15.53 – 30.46 m.


DDH BH 350/7
30.46 – 45.15 m.


DDH BH 350/7
45.15 – 50.00 m.
E.O.H.

GEOPEKO DIVISION - King Island

LOG OF D.D.H. No. BH 350/6

PLANNING

Proposer: J. Clark ..... Depth: 135

Location: Q42 Drive

Purpose of Hole: Test fault block and C lens

Co-ords: 40395 E 10350 N

Inclination: -80°

Bearing: 270° °Grid °Mag

Target: E N

Depth:

Approved by: Date:

SURVEY

Survey Co-ords: E N

Surveyed Bearing: 266° °Grid °Mag

Surveyed in by: Date

Actual Co-ords: 40397.2 E 10350 N

R.L. of Collar: 951.4

Inclination of Hole: -80°

Picked up By: Brain Lennon Date 1-6-1978

SUMMARY

Logged By: J. Clark Date

Results: 31-34 m 3 m, at 0.61% WO_3, 0.07% Mo

36-45 m 9 m, at 1.27% WO_3, 0.08% Mo

57-63 m 6 m, at 0.84% WO_3, 0.04% Mo

100-104m 4 m, at 0.42% WO_3, 0.01% Mo

DRILLING

Date Commenced: Date Terminated 14-7-1978

Driller/Contractor King Island Scheelite

Casing:	Size :	BQ
	Depth :	1.0m
Core:	Size :	46TT
	Depth :	108 m

Wedge Runoff:

Wedge placed: Depth

Proposed by: Approved by

Reason

Extension:

Final Depth: 108 m

Reason for Termination: Burnt bit in hole could not be removed.

Condition of hole on completion:

Casing;

Cemented:

Bore hole survey: Singleshot Camera.

Water:

Comments on Drilling Conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 350/6

Survey method: Singleshot Camera
Final depth: 108.0m
Casing depth: 1.0 m

Depth surveyed to: 108.0m
Date surveyed 17-7-1978
Surveyed by: L. Denby
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		S	W
18	270	242	11	-79.0	17.67	0.0	3.43
48	270	242	11	-79.0	47.12	0.0	9.15
78	269	241	11	-79.0	76.57	0.10	14.87
108	271	239	11	-79.0	106.02	0.0	20.59

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 350/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.0	3.0	2.4	80
- 6.0	3.0	3.0	100
- 8.8	2.8	2.8	100
- 11.5	2.7	2.7	100
- 14.5	3.0	3.0	100
- 17.5	3.0	3.0	100
- 20.5	3.0	3.0	100
- 23.5	3.0	3.0	100
- 26.0	2.5	2.4	96
- 28.7	2.7	2.7	100
- 31.5	2.8	2.8	100
- 34.5	3.0	3.0	100
- 37.5	3.0	3.0	100
- 39.2	1.7	1.7	100
- 42.2	3.0	3.0	100
- 45.3	3.1	3.1	100
- 48.2	2.9	2.9	100
- 51.3	3.1	3.1	100
- 53.3	2.0	2.0	100
- 56.3	3.0	3.0	100
- 59.3	3.0	3.0	100
- 62.3	3.0	3.0	100
- 65.3	3.0	3.0	100
- 67.9	2.6	2.6	100
- 69.3	1.4	1.4	100
- 71.6	2.3	2.3	100
- 74.5	2.9	2.85	98
- 77.0	2.5	2.45	98
- 81.3	4.3	4.15	97
- 84.3	3	3	100
- 87.3	3	3	100
- 90.2	2.9	2.9	100
- 93	2.8	2.8	100
- 95.4	2.4	2.1	100
- 98.4	3	3	100
- 101.4	3	3	100
- 104.4	3	3	100
- 107.4	3	3	100
- 108.	0.6	0.6	100

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/6

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
KF 118	7	8	1.0	1.0	<0.01	<0.01		
119	8	9	"	"	<0.01	<0.01		
120	9	10	"	"	<0.01	<0.01		
121	10	11	"	"	<0.01	<0.01		
122	11	12	"	"	<0.01	<0.01		
123	12	13	"	"	<0.01	<0.01		
124	13	14	"	"	<0.01	<0.01		
125	14	15	"	"	0.02	<0.01		
126	15	16	"	"	0.37	0.02		
127	16	17	"	"	<0.01	<0.01		
128	17	18	"	"	0.74	0.04		
129	18	19	"	"	0.84	0.05		
130	19	20	"	"	0.25	0.01		
131	20	21	"	"	0.34	0.04		
132	21	22	"	"	<0.01	<0.01		
133	26	27	"	"	<0.01	<0.01		
134	27	28	"	"	0.06	<0.01		
135	28	29	"	"	0.11	0.01		
136	29	30	"	"	<0.01	<0.01		
137	30	31	"	"	<0.01	<0.01		
138	31	32	"	"	0.49	0.04		
139	32	33	"	"	0.92	0.10		
140	33	34	"	"	0.42	0.07		
141	34	35	"	"	0.02	<0.01		
142	35	36	"	"	0.21	0.02		
143	36	37	"	"	0.92	0.11		
144	37	38	"	"	0.58	0.03		
145	38	39	"	"	0.60	0.04		
146	39	40	"	"	7.2	0.40		
147	40	41	"	"	0.31	0.03		
148	41	42	"	"	0.21	0.02		
149	42	43	"	"	0.89	0.06		
150	43	44	"	"	0.30	0.03		
206	44	45	"	"	0.45	0.02		
207	45	46	"	"	<0.01	<0.01		
208	46	47	"	"	0.59	0.04		
209	47	48	"	"	0.18	0.01		
210	48	49	"	"	0.08	0.03		
211	49	50	"	"	<0.01	<0.01		
212	50	51	"	"	<0.01	<0.01		
213	51	52	"	"	0.04	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/6

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
KF 214	52	53	1.0	1.0	<0.01	<0.01		
215	53	54	"	"	<0.01	<0.01		
216	54	55	"	"	<0.01	<0.01		
217	55	56	"	"	0.07	<0.01		
218	56	57	"	"	0.02	<0.01		
219	57	58	"	"	1.34	0.07		
220	58	59	"	"	0.70	0.04		
221	59	60	"	"	1.34	0.08		
222	60	61	"	"	0.38	0.01		
223	61	62	"	"	0.18	0.01		
224	62	63	"	"	1.08	0.05		
225	63	64	"	"	0.16	<0.01		
226	64	65	"	"	0.30	0.02		
227	65	66	"	"	0.26	0.01		
228	66	67	"	"	0.21	0.01		
BH 6519	67	68	"	"	0.01	0.01		
20	68	69	"	"	0.01	<0.01		
21	69	70	"	"	0.23	0.01		
22	70	71	"	"	0.02	<0.01		
23	71	72	"	"	<0.01	<0.01		
24	72	73	"	"	<0.01	<0.01		
25	73	74	"	"	<0.01	<0.01		
26	74	75	"	"	0.49	0.01		
27	75	76	"	"	0.27	0.01		
28	76	77	"	"	0.01	0.01		
29	77	78	"	"	<0.01	<0.01		
30	78	79	"	"	<0.01	0.01		
31	84	85	"	"	<0.01	<0.01		
32	85	86	"	"	0.29	0.02		
33	86	87	"	"	0.05	<0.01		
34	87	88	"	"	<0.01	<0.01		
35	88	89	"	"	<0.01	<0.01		
36	89	90	"	"	<0.01	0.01		
37	90	91	"	"	<0.01	0.01		
38	91	92	"	"	<0.01	0.01		
39	92	93	"	"	0.01	0.01		
40	93	94	"	"	0.37	0.01		
41	94	95	"	"	0.12	0.01		
42	95	96	"	"	<0.01	0.01		
43	96	97	"	"	0.01	0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/6

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6544	97	98	1.0	1.0	0.02	<0.01		
45	98	99	"	"	0.20	0.01		
46	99	100	"	"	0.19	0.01		
47	100	101	"	"	0.54	0.02		
48	101	102	"	"	0.32	0.01		
49	102	103	"	"	0.44	0.01		
50	103	104	"	"	0.37	<0.01		
51	104	105	"	"	0.25	0.01		
52	105	106	"	"	<0.01	<0.01		
53	106	107	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/6

0.00 - 8.20 **PODDED BIOTITE-PYROXENE HORNFELS**

Purplish brown biotite hornfels has calcite and rock fragments throughout. The calcite fragments are often rimmed by pyroxene and small lenses of pyroxene are also present.

6.9 m soft calcite vein

Fractures / m = 5

8.20 - 20.50 m **PYROXENE-GARNET HORNFELS**

Calcite fragments rimmed by grossular are present in a matrix of pyroxene, grossular and calcite.

11.9-12.4m. Podded biotite pyroxene hornfels.
17.5-20.3m. Calcite pods are sometimes obscured by coarse grained calcite-epidote development. Lengths of up to 40cm have fine grained thickly disseminated scheelite with similar lengths of barren pyroxene garnet hornfels between.

Fractures / m = 6

20.50 - 27.00 m **MARBLE**

Light grey fine to medium grained marble with white calcite veinlets and rounded aggregates of grossular up to 1cm in diameter. Soft, white, crumbly calcite veins causing broken core are present at 20.6 m, 21.4 m, 21.6 - 21.8 m, 23.5 m, 24.0 - 24.3 m, 24.6 - 24.8 m, 25.4 - 25.8 m.

Fractures / m = 4 (in solid core).

27.00 - 31.20 m **GARNET-PYROXENE HORNFELS**

Irregular clusters of coarse grained calcite and dark green epidote are present in a matrix of pyroxene and grossular.

29.9 - 28.1 m. Thickly disseminated fine grained scheelite.

Elsewhere there is only minor sparsely disseminated scheelite.

Fractures / m = 3.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/6

31.20 - 33.70 m MINERALIZED GARNET-PYROXENE HORNFELS

This unit consists of coarse grained calcite, epidote and pyroxene between lengths of garnet hornfels which contains andradite and calcite.Abundant thickly disseminated fine grained scheelite is present.

Fractures / m = 2.

33.70 - 35.70 m MARBLE

Grey,well bedded (50° to core axis),medium grained marble which contains minor pyroxene and grossular.

34.5-34.7 m. Pyroxene calcite hornfels which contains fine grained disseminated scheelite.

Fractures / m = 5.

35.70 - 66.60 m MINERALIZED BANDED FOOTWALL BEDS

Garnet hornfels and garnet-pyroxene hornfels are the more abundant beds in this unit. There are smaller lengths of pyroxene hornfels and narrow beds of marble and biotite hornfels, especially towards the end of the unit.

35.7-37.0m. Thickly disseminated fine grained scheelite.

37.0-49.2m. Lengths of mineralized garnet hornfels and garnet hornfels and garnet pyroxene hornfels occur between longer lengths of unmineralized core. Only minor pyroxene and calcite hornfels are present. Broken core between 38.5-39.0m.

49.2-50.9 m. Pyroxene hornfels.
50.9-52.5 m. Garnet-pyroxene hornfels with only trace scheelite.
52.5-55.7 m. Biotite hornfels.
55.7-57.5 m. Pyroxene hornfels and garnet-pyroxene hornfels contain only short lengths with abundant fine grained scheelite.
57.5-61.3 m. Well mineralized garnet hornfels.
61.3-66.6 m. Interbedded mineralized garnet hornfels with pyroxene, biotite and grossular beds.

Depth	Bedding / CA
38.2	47
45.4	31
53.6	36
61.4	50
66.3	49

Fractures/m = 6

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/6

66.60 - 78.60 m

BANDED FOOTWALL BEDS

Consists of interbedded marble pyroxene and biotite hornfels with short lengths of mineralized garnet hornfels.

66.3-69.1 m. Bedded biotite-pyroxene hornfels, with broken and clayey core between 68.7-68.9 m.

69.1-70.7 m. Pyroxene hornfels with some garnet and garnet-pyroxene hornfels fine grained thickly disseminated scheelite is present from 69.1-69.25m.

70.7 - 73.9 m. Marble.
73.9 - 76.3 m. Garnet hornfels, generally well mineralized containing narrow unmineralized pyroxene hornfel beds.
76.3 - 78.6 m. Interbedded marble, pyroxene and biotite hornfels.

At 69m bedding is 47^{o} to core axis.
72m 20^{o}
78.1 34

Fractures/m = 3.

78.60 - 78.80 m

FAULT

Broken biotite hornfels with small calcite veins. Fragments size varies from approx. 1cm to 5cm.

78.80 - 85.30 m

BIOTITE HORNFELS

Purplish brown fine grained biotite hornfels with small black spots present near the start of the unit.

83.5 - 85.3 m. Podded biotite-pyroxene hornfels in which calcite pods where present are rimmed by grossular.

Fractures/m = 6.

85.30 - 104.40 m

PYROXENE-GARNET HORNFELS

Calcite pods, often rimmed by grossular are set in a matrix of fine grained pyroxene with minor grossular and biotite. Scattered medium grained scheelite is present from 85.5-86.1 m and 93.1-93.9 m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/6

Biotite hornfels is most abundant between 88.5-90.4m. 96.0-96.5m. The unit appears to be bedded (60° to core axis).

100.0-103.3 m. Very fine grained thickly disseminated scheelite in a pyroxene garnet hornfels which has pods obliterated or replaced by coarse grained calcite and epidote.

103.9-104.3 m. Fine grained disseminated scheelite.

Fractures / m = 4

104.40 - 108.00 m MARBLE

Grey medium grained marble from 104.8-105.5 m most fractures are coated with reddish brown ironoxides.

Bedding is 67° to core axis.

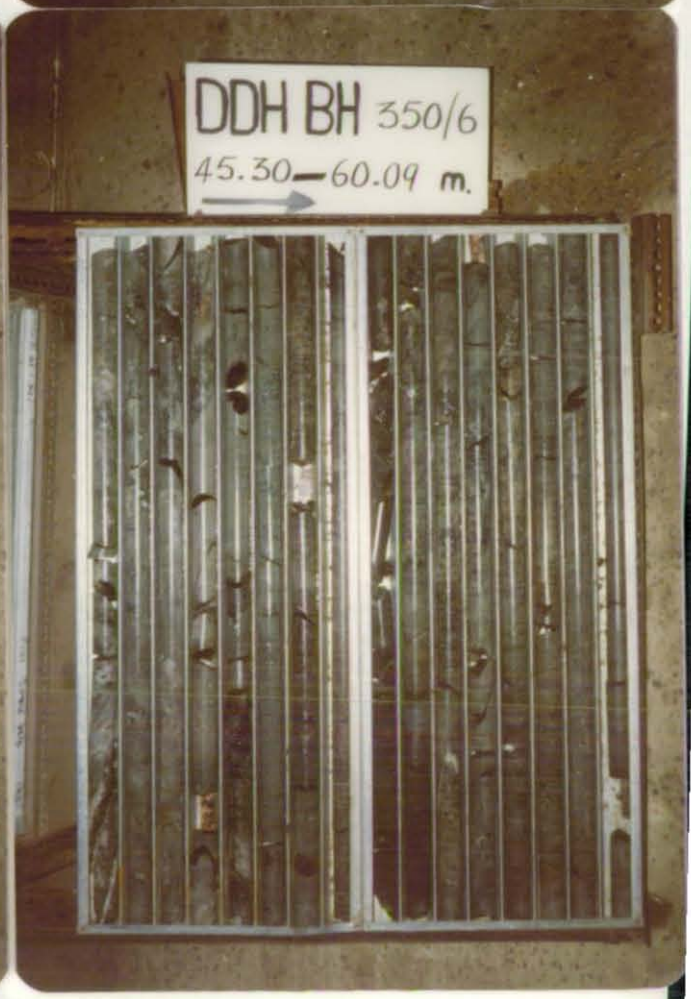
Fractures / m = 2 - 10.

EOH 108.00 m.

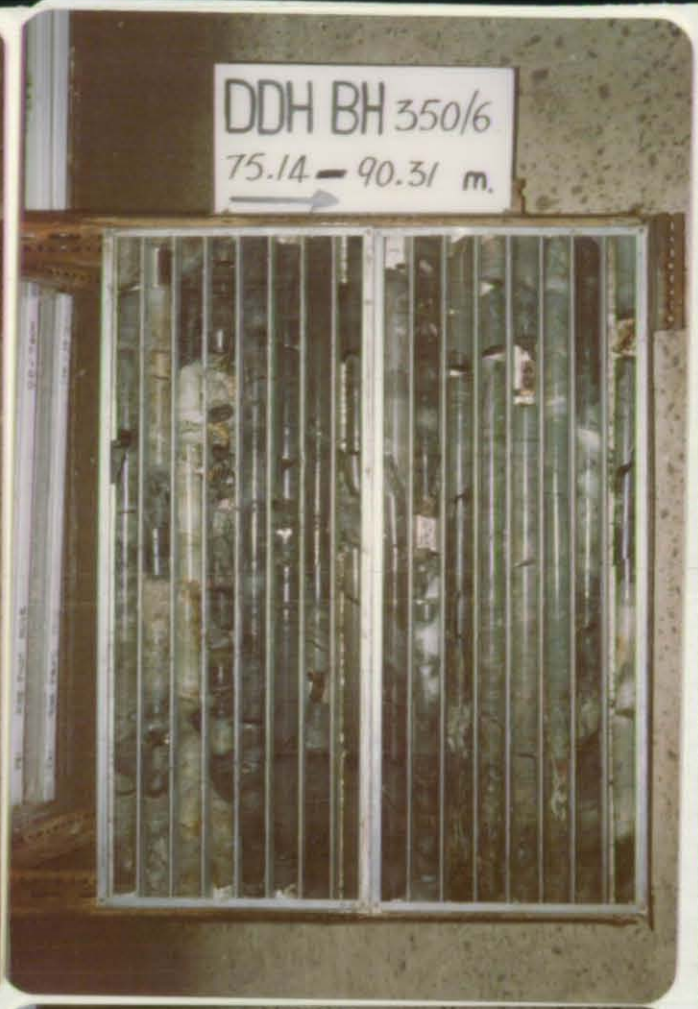

DDH BH 350/6
0.00 – 15.33 m.


DDH BH 350/6
15.33 – 30.55 m.


DDH BH 350/6
30.55 – 45.30 m.


DDH BH 350/6
45.30 – 60.09 m.


DDH BH 350/6
60.09 — 75.14 m.


DDH BH 350/6
75.14 — 90.31 m.


DDH BH 350/6
90.31 — 105.12 m.


DDH BH 350/6
E.O.H.
105.12 — 108.03 m.


DDH BH 350/4
121.98 – 136.91 m.


DDH BH 350/4
136.91 – 142.00 m.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 350/6

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
KF 126	0.37	0.02	KF 229	0.74	0.01	230	0.475		231	0.40		
KF 138	0.49	0.04	232			233	0.590		234	0.62		
KF 148	0.21	0.02	235	0.22	0.01	236	0.305		237	0.22		
KF 219	1.34	0.07	238	1.18	<0.01	239	1.34		240	1.12		
KF 228	0.21	0.01	241	0.21	<0.01	242	0.260		243	0.28		

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 350/6

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.L.S.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
6521	0.23	0.01	8138	0.24	<0.01	8139	0.320		8140	0.44		
6532	0.29	0.02	8141	0.36	<0.01	8142	0.345		8143	0.28		
6540	0.37	0.01	8144	0.40	<0.01	8145	0.375		8146	0.45		
6550	0.37	<0.01	8147	0.51	<0.01	8148	0.550		8149	0.50		

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 350/5

PLANNING

Proposer: J. M. Clark — Depth: 75 m

Location: Q42 Drive

Purpose of hole: To test B Main

Co-ordinates: 40392 E 10350 N

Inclination: -35° Magnetic:

Bearing: 270° Grid Target depth:

Target: E N

Approved by: Date:

SURVEY

Survey Co-ords: E N

Survey bearing 270° Grid Magnetic:

Surveyed in by: Date:

Actual Co-ords: 40395.6 E 10350.0 N

R.L. of collar: 951.3 Inclination of hole: -36.5°

Picked up by: B.L. Date: 27-4-78

SUMMARY

Logged by: J. M. Clark

Results: 52-54 m, 2 m @ 1.24% WO_3, 0.06% Mo

DRILLING

Driller/Contractor: K.I.S.

Date Commenced: 11-4-78 Date Terminated: 24-4-78

Casing:	Size :	BQ
	Depth :	1M
Core:	Size :	46TT
	Depth :	68.0

Wedge Runoff:

Wedge Placed: Depth:

Proposed by: Approved by:

Reason:

Extension:

Final depth: 68.0 m

Reason for termination: Passed B Main

Condition of hole on completion:

Casing:

Cemented:

Bore hole survey: Singleshot

Water:

Comments on drilling conditions: Good except for No 2 Fault Zone

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 350/5

Survey method: Singleshot Camera
Final depth: 68.00 m
Casing depth: 1.0 m

Depth surveyed to: 48.0 m
Date surveyed to: 21.4.78
Surveyed by: L. Denby
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	W
18	272	244	54°45'	35.25	10.39	0.51	14.69
48	273	245	54°00'	36.0	28.02	1.78	38.93
68	Assumed	Same			39.78	2.63	55.09

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 350/5

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.70	2.7	2.7	100
- 6.40	3.7	3.7	100
- 9.40	3.0	3.0	100
- 12.30	2.9	2.9	100
- 16.0	3.7	3.7	100
- 19.0	3.0	3.0	100
- 21.30	2.3	2.3	100
- 23.50	2.2	2.2	100
- 28.50	5.0	4.7	94
- 31.50	3.0	3.0	100
- 33.60	2.1	2.1	100
- 36.70	3.1	3.0	97
- 41.00	4.3	4.1	95
- 43.50	2.5	1.5	60
- 47.00	3.5	3.5	100
- 50.00	3.0	2.9	97
- 52.40	2.4	2.4	100
- 55.10	2.7	2.7	100
- 57.70	2.6	2.6	100
- 60.00	2.3	2.1	91
- 62.10	2.1	2.1	100
- 65.00	2.9	2.8	97
- 68.00	3.0	3.0	100

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/5

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
B 6281	46	47	1.0	1.0	<0.01	<0.01		
82	47	48	"	"	0.05	<0.01		
83	48	49	"	"	<0.01	<0.01		
84	49	50	"	"	0.09	<0.01		
85	50	51	"	"	0.38	0.02		
86	51	52	"	"	0.20	<0.01		
87	52	53	"	"	1.56	0.07		
88	53	54	"	"	0.92	0.05		
89	54	55	"	"	0.08	<0.01		
90	55	56	"	"	<0.01	<0.01		
91	56	57	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/5

0.0 - 0.50 m — **Biotite Hornfels**

Purplish brown biotite hornfels with greenish grey rock fragments throughout.

Fractures / m 20.

0.50 - 19.20 m — **Pyroxene - Garnet Hornfels**

Fine grained green pyroxene sometimes containing pink grossular, has large fragments of calcite (rimmed by grossular) and smaller angular rock fragments throughout. Short lengths of core are rich in biotite (eg 7.9 m).

The larger calcite fragments are present from 12.5 - 19.2 metres. Scheelite is not present.

Fractures / m = 5
Recovery = 100%

19.20 - 40.70 m — **Aplite**

Pink to white, fine to medium grained aplite, often has a sugary texture. Mafic minerals (hornblende and biotite - (equal amounts) are not common. Minor muscovite is present. Small vugs occur at 21.3 - 21.4 m and 22.8 - 23.1 m.

Fractures / m = 11
Recovery = 99%

40.70 - 49.70 m — **Biotite - Pyroxene Hornfels**

Interbedded green pyroxene hornfels and brownish purple biotite hornfels. Beds rich in grossular and calcite are present at 43.7 - 43.8 m, 44.4 m and 44.5 - 44.6 m. Pyroxene - calcite - grossular beds with minor scheelite are present at 47.4 m and 49.3 metres.

The beginning of the unit (40.7 - 43.5) apparently represents the No.2 fault and there has been considerable core loss.

Depth	Bedding
43.8	20
44.5	35
49.0	38

Fractures / m = 6 (except for 40.7 - 43.5)
Recovery = 89%

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/5

49.70 - 54.20 m — Garnet Hornfels

This is a patchy unit containing bedded garnet hornfels with smaller units of pyroxene and biotite hornfels. Scheelite is also present in bands within garnet hornfels and grain size ranges from fine to coarse.

The longest intervals of barren pyroxene - biotite hornfels are 50.9 - 51.7 m and 52 - 52.5 m.

Bedding is 40° to core axis.
Fractures / = 5
Recovery = 100%

54.68.00 m — Marble

Grey to white finely bedded marble containing fine black biotite rich beds. Minor scheelite is present with grossular at 59.1 m, 60.1 m and 62.4 m.

Bedding is 36° to core axis.
Fractures / m
Recovery 2 100%

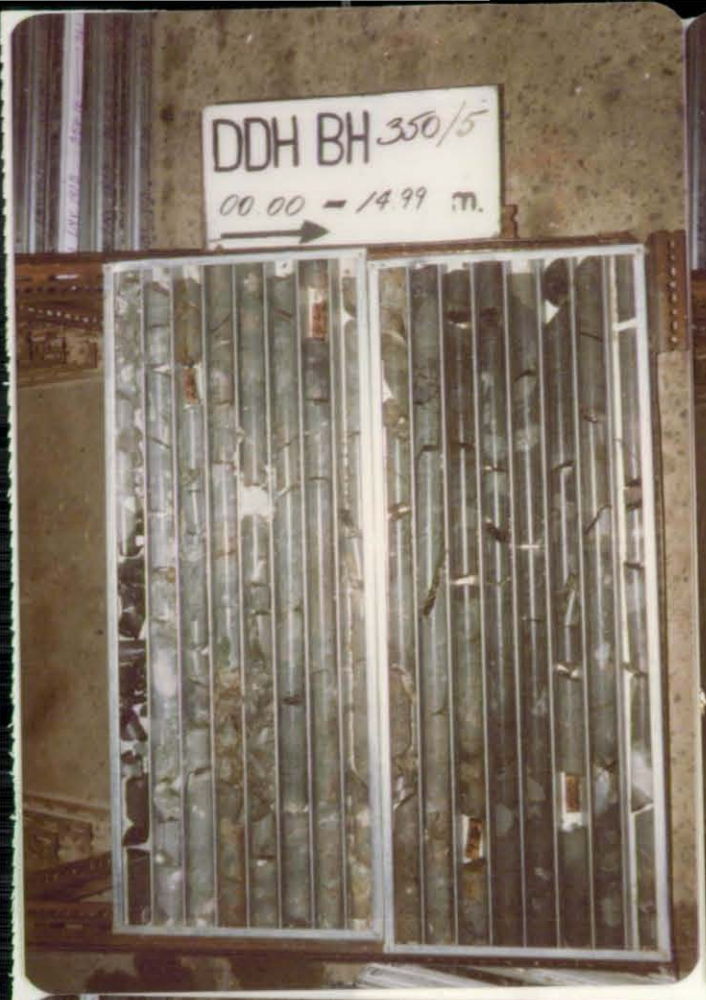
EOH 68.00 m

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 350/5

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
6285	0.38	0.02	8096	0.54	< 0.01	8097	0.455		8098	0.47		


DDH BH 350/5
00.00 - 14.99 m.


DDH BH 350/5
14.99 - 29.03 m.


DDH BH 350/5
29.03 - 44.74 m.


DDH BH 350/5
44.74 - 60.00 m.


DDH BH 350
60.00 - 68.00 m.

GEOPEKO DIVISION - King Island

LOG OF D.D.H. No. BH 350/4

PLANNING

Proposer: J. Clark ..... Depth: 135 m

Location: Q42 Drive

Purpose of Hole: To test Fault Block and C lens

Co-ords: 40395 E 10350 N

Inclination: -61°

Bearing: 269° 20' °Grid °Mag

Target: E N

Depth:

Approved by: M.C.R. Date: 1-2-78

SURVEY

Survey Co-ords: E N

Surveyed Bearing: °Grid °Mag

Surveyed in by: Date

Actual Co-ords: 10350.0 N 40396.6 E

R.L. of Collar: 951.33

Inclination of Hole: -62° 31'

Picked up By: B. Lennon Date 7-3-78

SUMMARY

Logged By: A. Younger Date

Results: 56 - 61 m, 1 m core loss

4 m at 1.13% WO_3

124 - 128m, 4 m at 0.98% WO_3

DRILLING

Date Commenced: 20-2-78 Date Terminated

Driller/Contractor K.I.S.

Casing:	Size :	BQ			
	Depth :	1.0m			
Core:	Size :	46TT			
	Depth :	142.0			

Wedge Runoff:

Wedge placed: Depth

Proposed by: Approved by

Reason

Extension:

Final Depth: 142.0 m

Reason for Termination: In adamellite

Condition of hole on completion:

Casing;

Cemented:

Bore hole survey: Multishot Camera

Water:

Comments on Drilling Conditions: Good except for No. 2 Fault.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 350/4

Survey method: Multishot Camera
Final depth: 142.0 m
Casing depth: 1.0 m

Depth surveyed to: 142.0 m
Date surveyed 11-4-78
Surveyed by: L. Denby
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	W
20	272	244	28°15'	-61.75°			
35					30.83	0.58	16.56
50	272	244	28°0'	-62.0°			
65					57.32	1.07	30.64
80	273	245	27°0'	-63.0°			
95					84.05	1.78	44.24
110	274	246	26°45'	-63.25°			
126					111.73	2.75	58.16
142	276	248	26°15'	-63.75°	126.08	3.49	65.20

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 350/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	2.1	70
3.0 - 5.7	2.7	2.7	100
5.7 - 8.7	3.0	2.95	98
8.7 - 11.7	3.0	2.95	98
11.7 - 15.2	3.5	3.5	100
15.2 - 18.2	3.0	2.9	96
18.2 - 21.2	3.0	3.0	100
21.2 - 24.2	3.0	3.0	100
24.2 - 27.2	3.0	2.95	98
27.2 - 30.2	3.0	3.1	103
30.2 - 33.1	2.9	2.9	100
33.1 - 35.1	2.0	2.05	102
35.1 - 38.1	3.0	3.15	105
38.1 - 40.7	2.6	2.7	103
40.7 - 43.7	3.0	3.15	105
43.7 - 45.7	2.0	2.15	107
45.7 - 48.4	2.7	2.45	90
48.4 - 51.2	2.8	2.9	103
51.2 - 54.2	3.0	2.9	96
54.2 - 57.2	3.0	3.05	101
57.2 - 59.2	2.0	1.85	92
59.2 - 60.2	1.0	0.0	0.0
60.2 - 63.2	3.0	3.0	100
63.2 - 65.6	2.4	2.45	102
65.6 - 69.1	3.5	3.45	98
69.1 - 71.8	2.7	2.5	92
71.8 - 74.8	3.0	3.15	105
74.8 - 77.8	3.0	3.0	100
77.8 - 79.9	2.1	2.0	95
79.9 - 81.4	1.5	1.45	96
81.4 - 83.3	1.9	2.05	107
83.3 - 86.3	3.0	2.9	96
86.3 - 89.3	3.0	2.85	95
89.3 - 91.5	2.2	2.2	100
91.5 - 94.5	3.0	2.95	98
94.5 - 97.5	3.0	3.1	103
97.5 - 99.5	2.0	2.05	102
99.5 - 102.2	2.7	2.75	101
102.2 - 104.1	1.9	2.85	150
104.1 - 107.2	3.1	3.05	101
107.2 - 111.2	4.0	3.95	98
111.2 - 114.2	3.0	3.15	105
114.5 - 118.5	4.3	4.35	101
118.5 - 121.5	3.0	3.00	100
121.5 - 124.5	3.0	2.85	95
124.5 - 127.5	3.0	3.04	101
127.5 - 130.5	3.0	2.95	98

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 350/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
130.5 - 133.0	2.5	2.25	90
133.0 - 136.8	3.8	3.9	102
136.8 - 142.0	4.2	4.45	165
			98%

ie 98% Core Recovery

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/4

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6179	20	21	1.0	1.0	0.09	<0.01		
80	21	22	"	"	<0.01	<0.01		
81	22	23	"	"	0.04	<0.01		
82	23	24	"	"	0.02	<0.01		
83	24	25	"	"	0.23	0.01		
84	25	26	"	"	0.12	0.01		
85	26	27	"	"	0.38	0.01		
86	27	28	"	"	0.62	0.04		
87	28	29	"	"	<0.01	<0.01		
88	35	36	"	"	0.18	0.01		
89	36	37	"	"	0.82	0.06		
90	37	38	"	"	0.06	0.01		
91	38	39	"	"	0.07	0.01		
92	39	40	"	"	0.04	0.01		
93	40	41	"	"	0.72	0.05		
94	41	42	"	"	1.48	0.09		
95	42	43	"	"	0.18	0.01		
96	43	44	"	"	0.39	0.02		
97	44	45	"	"	0.06	<0.01		
98	45	46	"	"	0.10	0.01		
99	46	47	"	"	0.17	0.01		
6200	47	48	"	"	0.19	0.01		
1	48	49	"	"	0.02	0.01		
2	49	50	"	"	0.17	0.01		
3	50	51	"	"	0.68	0.03		
4	51	52	"	"	0.40	0.02		
5	52	53	"	"	0.01	<0.01		
6	53	54	"	"	0.31	0.02		
7	54	55	"	"	0.25	0.01		
8	55	56	"	"	0.12	0.01		
9	56	57	"	"	0.45	0.03	in core loss 4m @ 1.43% WO_3	
10	57	58	"	"	1.76	0.18		
11	58	59	"	"	0.58	0.02		
12	59	61	"	"	1.72	0.05		
13	61	62	"	"	0.10	<0.01		
14	62	63	"	"	1.70	0.05		
15	63	64	"	"	0.06	<0.01		
16	64	65	"	"	0.01	<0.01		
17	93	94	"	"	0.10	0.01		
18	94	95	"	"	0.86	0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/4

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6219	95	96	1.0	1.0	1.63	0.04		
20	96	97	"	"	0.14	<0.01		
21	97	98	"	"	0.09	<0.01		
22	98	99	"	"	<0.01	<0.01		
23	99	100	"	"	<0.01	<0.01		
6325	100	101	"	"	<0.01	<0.01		
26	101	102	"	"	<0.01	<0.01		
27	102	103	"	"	<0.01	<0.01		
28	103	104	"	"	<0.01	<0.01		
29	104	105	"	"	0.01	<0.01		
30	105	106	"	"	0.03	<0.01		
6224	106	107	"	"	0.01	<0.01		
25	107	108	"	"	0.01	<0.01		
26	108	109	"	"	0.14	<0.01		
27	109	110	"	"	0.19	0.01		
28	110	111	"	"	0.01	<0.01		
29	111	112	"	"	0.09	<0.01		
30	112	113	"	"	0.68	0.01		
31	113	114	"	"	<0.01	<0.01		
32	114	115	"	"	0.56	0.01		
33	115	116	"	"	0.31	0.01		
34	116	117	"	"	0.02	<0.01		
35	117	118	"	"	<0.01	<0.01		
36	118	119	"	"	1.09	0.02		
37	119	120	"	"	0.12	<0.01		
38	123	124	"	"	0.03	<0.01		
39	124	125	"	"	0.87	0.01	4 — @ 0.99% WO_3	
40	125	126	"	"	0.36	0.01		
41	126	127	"	"	0.99	0.02		
42	127	128	"	"	1.71	0.01		
43	128	129	"	"	0.07	<0.01		
44	129	130	"	"	0.01	<0.01		

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/4

0.0 - 19.2 m

PODDED PYROXENE BIOTITE HORNFELS

A fine grained green pyroxene rock with lesser interbeds of unaltered biotite hornfels units. Both unit are podded, containing calcite fragments, which within the pyroxene unit are altered to grossuar garnet. Some areas show grossular garnet development in the groundmass eg 15.30, 16.80-16.90.

Trace disseminated mineralization occurs from 15.20 to 19.20 and is associated with the grossular garnet, both in the ground mass and fragments.

The pyroxene hornfels and biotite hornfels contacts are transitional as would be expected as the pyroxene hornfels is derived from the biotite hornfels. The contact with the pyroxene garnet hornfels is sharp and at angle of 70° to the LCA.

The fractures/metre average about 5, generally at about 40°-50° to the LCA. Possible fractures with carbonate and clay filling occur 5.70, 8.05-8.70, 10.7, 1.85 15.1, 18.9-19.05 m. None seem to be at major importance.

19.2 - 27.5 m

PYROXENE GARNET HORNFELS

Typical calcite podded, pyroxene, 2 garnet, chloritic unit with patchy mineralization.

Good examples at the pods occur at 23.1 m, where some have a high silica content. Grossular garnet is by far the more common, especially about 22.3 m and 24.2 m. Andradite is more common at 25.6 and 26.5 m. Chlorite is a fairly minor constituent in the groundmass and is widely dispersed, more common 23.80, 26.5 m. The contact with the underlying marble is transitional over about 0.03 m.

The fractures/metre average about 7 generally at about 30° to the LCA. Minor carbonate; clay filled, faults occur 20.4, 22.9, 24.9, 25.7, 26.1-26.20, 26.5 m.

27.5 - 29.95 m

METASOMATISED MARBLE

A fairly pure carbonate unit composed of two (2) grain sizes and ?andradite garnet crystals.

The unit appears to have a fine grained ground mass with "fragments" of coarser grained dispersed throughout.

The presense of large numbers of ?andradite garnet indicates some alteration.

The contact with the underlying garnet hornfels is slightly transitional. The fractures/metre average 3 with no apparent preferred orientation.

A minor fault occurs 27.6 m and has been fused by carbonate. A major shear occurs 29.6-29.8 m which is filled by a talc-clay mixture.

29.95 - 33.0 PYROXENE GARNET HORNFELS

Typical podded pyroxene, grossular garnet hornfels with minor mineralization. The pods are both silica and carbonate eg 32.3 m.

The fracture/metre rate is about 7 usually at 30° or 80° to the LCA.

Broken ground occurs 30.3-30.45 m and clay and carbonate filled fractures occur 31.2, 31.7, 32.5, 32.7, 32.8, 32.95 m.

The fracture at 32.8, and 32.95 m are the most major.

33.0 - 34.5 m MARBLE

A minor marble unit with a large amount of pyroxene and grossular garnet alteration but a separate unit with only trace mineralization.

Related to the pyroxene garnet hornfels as silica/carbonate pods occur 33.4 and 34.25 m with garnet pyroxene alteration areas.

Fracture/metre average 7 mostly at 80-90° to the LCA. Minor fractures occur 33.9 and 34.35 m.

34.5 - 38.2 MINERALIZED MARBLE

Typical podded, pyroxene, grossular and andradite garnet unit as before with minor mineralization.

The andradite garnet is confined mainly to the zone 35.8 to 36.9 m within most of the rest of the unit grossular garnet and pyroxene are the major constituents. Most of the pods are carbonate with minor quartz.

Fractures/metre average approximately 6 and most are about 20° to the LCA. A clay, carbonate and chlorite filled fracture occurs at 34.8 m and a chlorite filmed fault forms the base of the unit.

38.2 - 42.1 m GARNET HORNFELS

The unit varies between coarse and fine grained andradite garnet and minor pyroxene and calcite forming the remainder.

The mineralization is only trace level at the start of the unit, but though disseminated as fine material is medium high grade by the end of unit. Fractures/metre average about 10 usually at about 30-40° to the LCA clay, carbonate and minor chlorite fractures occur 38.2, 38.3-38.4, 39.45, 39.65, with a fairly major shear 40.1-40.4m and the contact at 42.1 m has carbonate, clay and sulphide filming indicating faulting.

42.1 - 56.1 m GARNET PYROXENE HORNFELS

An extremely variable unit containing almost massive andradite garnet hornfels, 43.5-44.1 m grossular garnet and pyroxene hornfels 42.1-43.5 m a biotite pyroxene hornfels 45.5-45.8 m and a marble unit, 52.05-52.95 all of which are distinctly podded in nature. Mineralization is also very variable, from few coarse grains of sub economic grade to medium grade disseminated material.

The fracture/metre rate is about 10 mostly at 40-50° to the LCA. Major clay, carbonate fractures occur 43.9, 41.4, 48.3, 51.35, 52.4-52.6 m, and are all significant faults.

56.1 - 58.3 GARNET HORNFELS

Fine to coarse grained andradite garnet, calcite, minor quartz and pyroxene rock, with medium grade mineralization disseminated throughout.

Fractures/metre average 8 with the core getting progressively more weathered and broken as it approaches the following shear zone. There is movement and development of pug on several fractures associated with the shear zone.

58.3 - 61.45 SHEAR ZONE (GARNET HORNFELS)

The same unit as above only shearing and weathering has reduced it to a ferringinous calcareous, clayey semiconsolidated rock which has fair to good scheelite, mineralization.

Such is the ground that 1 m of core 59.2-60.2 m was lost. This is probably the No 2 Fault Zone.

61.45 - 63.30 m BRECCIATED GARNET HORNFELS

This seems to be simply a fragmented zone assocaited with the No. 2 Fault which has been consolidated by a calcareous matrix. It carries good to high grade mineralization of the disseminated type, though some is quite coarse grained scheelite 2 mm plus.

Fractures/metre average 6 and are generally at angles of 30-40° to the LCA. Some have minor amounts of clay pug and carbonate indicating some associated faulting.

63.30 - 90.4 BIOTITE HORNFELS

This extensive unit appears to have a conformable, but slightly alteration obscured contact with the above garnet hornfels at an angle of 60° to the LCA. It shows considerable variation, the upper 3 m have minor pyroxene hornfels bands and again from about 82 m onwards. Most of the remainder is the typical grey brown massive biotite hornfels with minor fragments (79.3 m) and no mineralization. Relic bedding at 75.3, and 78.8 m is about 40° to the LCA. Fractures/m average about 5 at about 60° to the LCA. Minor broken and fracture zones occur 74.65 - 74.8, 81.2 - 81.3, 87.6-87.7. Major broken zones with clay and carbonate fill occur 82.5-83.3, 88.4-89.3, 90.0-90.3. The contact with the pyroxene garnet hornfels below is slightly broken.

90.4 - 93.75 PODDED BIOTITE-PYROXENE HORNFELS

A fairly unaltered unit with generally thin rims of grossular garnet around the calcitic pods, in turn surrounded by slightly broader rims or narrow zones of pyroxene within unaltered biotite hornfels matrix.

Fractures/m average 4 at about 70° to the LCA. Sheared and broken zones with clay and chlorite fill occur 90.5-90.8, 92.4-92.6 with a minor zone at 91.45-91.5. Mineralization is in the trace levels.

An aplite dyke occurs 92.9-93.3 m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/4

93.75 - 98.45 GARNET HORNFELS

Mainly grossular garnet with minor andradite, calcite, chlorite and quartz.

Scheelite mineralization is fair to good and widely dispersed though the unit.

Fractures/m average 5 generally at about 70° to the LCA.

98.45 - 111.5 m PYROXENE GARNET HORNFELS

Typical pyroxene garnet hornfels with calcite and silicic pods with grossular garnet rims in a pyroxene matrix. A biotite hornfels zone occurs 110.05-110.9 m otherwise unit is reasonably uniform. Mineralization is minor in the early part but inproves to about medium grade (108.3-110.0 m).

Fractures/m average 4 generally about 60-70° to the LCA. Clay filled shear zones occur 99.4-99.5, 103.4-103.6, 103.8-104.1, 105.4-105.7.

Aplite dykes occur 101.0-101.95 m, 102.9-104.95.

111.5 - 115.6 GARNET HORNFELS

Andradite and grossular garnet unit with minor chlorite, carbonate and pyroxene in the matrix. Mineralization ranges from fair to good and is as fine disseminated grains.

A minor marble unit occurs 113.05 - 113.6 m.

Chlorite and carbonate fractures with slickensides occur 111.90, 112.05, 113.6, and a clay filled fractur occurs 115.4 m.

Fractures/m average 5 at about 70-80° LCA.

115.6 - 125.6 MARBLE

Generally fine to medium grained, white to grey weakly bedded marble with minor interbeds of biotite hornfels, 117.7-118.45, garnet hornfels 118.45-119.25 and pyroxene hornfels 123.9-124.6 m. Relic bedding is at an angle of 50° to the LCA at 120.8 m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/4

The garnet hornfels and pyroxene hornfels units have medium grade mineralization fractures/m is about 5 mostly 80°-90° to LCA. Minor faults occur 115.8, 119.9, 124.1-124.2 m.

125.6 - 129.35 m GARNET HORNFELS

Normal andradite garnet hornfels with traces of pyroxene hornfels banding at the base and has minor grossular garnet throughout. Mineralization is fairly good, but falls off towards the base of the unit. Fractures/m average 6 and most are 50-60° to the LCA. A minor clay, chlorite filled fault occurs 127.1-127.2 m.

129.35 - 136.1 m BIOTITE HORNFELS

Normal grey brown biotite hornfels with minor pyroxene hornfels bands and showing probable relic bedding at 70° to the LCA at 131.9 m. Trace mineralization occurs 133.4 and 133.7 m. Granite incursions occur 135.1 - 135.75 m.

Badly broken zones occur 134.7 - 135.1 m, 135.75 - 136.25 m. Elsewhere fractures/m average 7 mostly at about 30°-40° to the LCA.

136.1 - 142.0 ADAMELLITE

Typical coarse grained adamellite with large pink orthoclase crystals within finer grained quartz, plagioclase, biotites and hornblende.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 350/4

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.L.S.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
6183	0.23	0.01	8069	0.16	<0.01	8070	0.170		8071	0.13		
6203	0.68	0.03	8072	0.73	<0.01	8073	0.790		8074	0.62		
6213	0.10	<0.01	8075	0.10	<0.01	8076	0.096		8077	0.10		
6227	0.19	0.01	8078	0.19	<0.01	8079	0.190		8080	0.24		
6236	0.12	<0.01	8081	1.29	<0.01	8082	1.40		8083	1.30		

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. 350/3

PLANNING

Proposer: G. Brown — **Depth:** 110 metres

Location: 950 metres R.L.

Purpose of hole: Define Fault Block

Co-ordinates: 40 400 E 10 350 N
Inclination: -68° **Magnetic:**
Bearing 270° ' ° Grid **Target Depth:**
Target: E N
Approved by: M.C.R. **Date:** 1-1-78

SURVEY

Survey Co-ords: E N
Survey bearing: 268°30' Grid **Magnetic:**
Surveyed in by: **Date:**
Actual Co-ords: 40 396.8 E 10 350.0 N
R.L. of Collar: 951.2 **Inclination of Hole:**
Picked up by: B. Lennon **Date:** 24-1-78

SUMMARY

Logged by: J. Clark
Results: 35-47 m, 12m at 0.91% WO_3, 0.06% Mo
50-62 m, 12m at 0.87% WO_3, 0.05% Mo

DRILLING

Driller/Contractor: L. Limbourne

Date commenced: 13-1-78 **Date terminated:** 14-2-78

Casing: Size: BX
Depth: 1.0m
Core: Size: 46mmTT
Depth: 87.0

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

Extension:
Reason for termination: Hole abandoned due to Stuck gear

Condition of hole on completion: **Final depth:** 87.0m
Casing:
Cemented:
Bore hole survey: Single Shot camera.
Water:

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. 350/3

Survey method: Singleshot
Final depth: 87 metres
Casing depth: 1.0 metres

Depth surveyed to: 87 metres
Date surveyed to: 14-2-78
Surveyed by: Lance Denby
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	W
22	271°	243	21.0	-69.0°	-20.54	0.14	7.88
43	271°	243	21.0	-69.0°	-40.15	0.27	15.41
64	273°	245	21°30'	-68.5°	-59.69	0.67	23.10
87	276°	248	21°45'	-68.25°	-81.05	1.56	31.57

REMARKS:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/3

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
B 5945	18	19	1.0	1.0	<0.01	0.02		
46	19	20	"	"	<0.01	<0.01		
47	20	21	"	"	0.23	0.01		
48	21	22	"	"	<0.01	<0.01		
49	22	23	"	"	0.07	<0.01		
50	23	24	"	"	<0.01	<0.01		
51	24	25	"	"	<0.01	<0.01		
52	25	26	"	"	<0.01	<0.01		
53	26	27	"	"	<0.01	<0.01		
54	27	28	"	"	0.20	0.01		
55	28	29	"	"	0.08	<0.01		
56	29	30	"	"	<0.01	<0.01		
57	30	31	"	"	<0.01	<0.01		
B 5958	34	35	"	"	<0.01	<0.01		
59	35	36	"	"	0.72	0.04		
60	36	37	"	"	1.70	0.09		
61	37	38	"	"	2.81	0.16		
62	38	39	"	"	1.38	0.08		
63	39	40	"	"	0.61	0.06		
64	40	41	"	"	0.60	0.04		
65	41	42	"	"	0.60	0.05		
66	42	43	"	"	0.78	0.05		
67	43	44	"	"	0.76	0.04		
68	44	45	"	"	0.33	0.02		
69	45	46	"	"	0.26	0.01		
70	46	47	"	"	0.42	0.02		
71	47	48	"	"	0.02	0.01		
72	48	49	"	"	0.12	<0.01		
73	49	50	"	"	0.11	<0.01		
74	50	51	"	"	0.41	0.01		
75	51	52	"	"	0.57	0.02		
76	52	53	"	"	0.08	<0.01		
77	53	54	"	"	1.14	0.07		
78	54	55	"	"	1.14	0.07		
79	55	56	"	"	0.72	0.04		
80	56	57	"	"	0.70	0.04		
81	57	58	"	"	1.87	0.09		
82	58	59	"	"	0.60	0.03		
83	59	60	"	"	1.18	0.07		
84	60	61	"	"	0.60	0.03		
85	61	62	"	"	1.38	0.07		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/3

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 5986	62	63	1.0	1.0	0.01	<0.01		
87	63	64	"	"	0.08	<0.01		
88	64	65	"	"	0.33	<0.01		
89	65	66	"	"	0.16	<0.01		
90	66	67	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 350/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.40	3.40	2.57	76
6.20	2.80	2.84	101
8.40	2.20	2.20	100
12.20	3.80	3.80	100
15.20	3.0	2.96	99
18.10	2.90	2.77	96
21.10	3.0	2.98	99
24.10	3.0	2.95	98
26.20	2.10	2.13	101
29.20	3.0	3.0	100
32.20	3.0	2.97	99
35.20	3.0	2.95	98
38.20	3.0	2.79	93
41.10	2.90	2.77	96
43.10	2.0	2.04	102
45.20	2.10	2.10	100
48.00	2.80	2.82	100
50.80	2.80	2.73	101
53.80	3.0	2.94	98
57.20	3.40	3.36	99
60.20	3.0	3.0	100
63.20	3.0	2.98	99
66.20	3.0	2.90	97
68.80	2.60	2.45	94
72.00	3.20	3.17	99
74.50	2.50	2.50	100
78.2	3.7	3.10	84
81.2	3.0	2.95	98
83.0	1.8	1.76	98
87.0	4.0	3.30	83

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/3

0.0 - 18.20m — Podded Pyroxene / Biotite Hornfels

Tabular fragments of milky quartz and variable shaped fragments of calcite (containing grossular) are set in a matrix of pyroxene and / or biotite hornfels. Boundaries between pyroxene and biotite hornfels are sharp but unregular.

Several grains of scheelite are present at 15.4 metres and 15.6 metres.

Fractures / m = 6

18.20 - 92.30m — Pyroxene - Garnet Hornfels

Pods of calcite containing grossular and fibrous actinolite are set in a fine grained pyroxene / grossular / calcite matrix.

Crystals of scheelite up to 5 millimetres diametre but averaging about 1 millimetre are sparsely scattered through the unit.

Soft calcite veining which has resulted in broken core is present at 25.7 - 25.8, 26.1 metres, and 26.5 metres.

Fractures / m = 6

29.30 - 35.50m — Marble

Medium grained light grey to white marble with bands and isolated crystals of grossular.

Fine grained disseminated scheelite is present at 31.5 - 31.6 metres.

At 34.0 metres, banding is 50^{o} to core axis.

Fractures / m = 4.

35.50 - 66.25m — Garnet Hornfels

Typically a fine grained garnet hornfels although in places actinolite and calcite reach 1 centimetre in diametre.

Scheelite distribution within the unit is not even:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/3

35.5 - 45.5 metres. Fine grained disseminated scheelite with occasional coarser grain.

45.5 - 46.8 metres. Bands containing fine grained disseminated scheelite mixed with pyroxene rich bands barren of scheelite.

46.8 - 50.2 metres. Very sparsely disseminated fine and medium grained scheelite.

50.2 - 51.8 metres. Thickly disseminated fine grained scheelite.

51.8 - 52.9 metres. Garnet hornfels nearly barren of scheelite.

52.9 - 61.6 metres. Fine grained disseminated scheelite.

61.6 - 66.25 metres. Bands of mineralized garnet hornfels, barren garnet hornfels and pyroxene hornfels.

Fractures / m = 6.

66.25 - 66.30m Fault Zone

Clay containing small fragments of biotite and pyroxene hornfels.

66.30 - 87.00m Biotite Hornfels

Purplish brown biotite hornfels with short lengths and lenses of light green pyroxene hornfels.

Broken core is present at 74.5 - 75.2 metres, 83.55 - 84.65 metres and 85.2 - 85.3 metres.

86.7 - 87.0 metres. Podded pyroxene / biotite hornfels.

Minor spotting is present in some of the biotite hornfels towards the end of the unit.

Fractures / m = 4.

EOH 87.00 metres

Hole abandoned because of gear stuck at base of hole.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

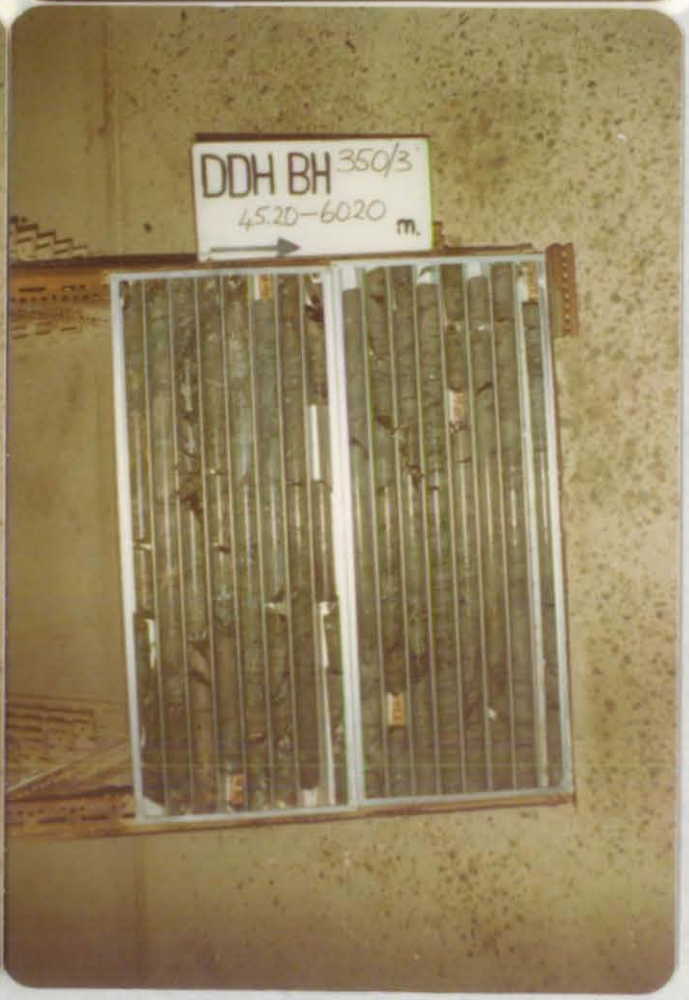
D.D.H. No. BH 350/3

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
5947	0.23	0.01	8003	0.26	< 0.01	8004	0.300		8005	0.28		
5959	0.72	0.04	8006	0.86	< 0.01	8007	0.990		8008	0.84		
5969	0.26	0.01	8009	0.31	< 0.01	8010	0.325		8011	0.29		
5979	0.72	0.04	8012	0.74	< 0.01	8013	0.810		8014	0.71		
5988	0.33	< 0.01	8015	0.44	< 0.01	8016	0.385		8017	0.38		


DDH BH 350/3
0.00-15.31 m.


DDH BH 350/3
15.31-30.10m.


DDH BH 350/3
30.10-45.20 m.


DDH BH 350/3
45.20-60.20 m.


DDH BH 350/3
6020-75.42 m.


DDH BH 350/3
75.42 – 87.00 m.
E.O.H

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 350/2A

PLANNING

Proposer: G. Brown — Depth: 105 metres

Location: 950 metres R.L.

Purpose of hole: BF & C lens ore blocking & exploration

Co-ordinates:	40400	E 10 350	N
Inclination:	-87°		Magnetic:
Bearing	090°	Grid	Target Depth:
Target:		E	N
Approved by:	M.C.R.		Date: 1-1-78

SURVEY

Survey Co-ords:		E	N
Survey bearing:	93°	Grid	Magnetic:
Surveyed in by:			Date:
Actual Co-ords:	40 396.97	E 10 350.39	N
R.L. of Collar:	951.28		Inclination of Hole: -87°30'
Picked up by:	B. Lennon		Date: 5-1-78

SUMMARY

Logged by: J. Clark

Results: 16-19m, 3m at 1.56° WO3, 0.15% MO, 40-44m, 4m at 0.77° WO_3 0.04%Mo
99-101m, 2m at 1.20 WO_3, 0.05% Mo

DRILLING

Driller/Contractor: K.I.S. (L. Limbourne)

Date commenced: — Date terminated: 13-1-78

Casing: Size:
Depth:
Core: Size: 46TT
Depth: 113.0 m

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

Extension:

Reason for termination:

Condition of hole on completion: — Final depth:
Casing: No
Cemented: No

Bore hole survey: Single shot to 113.0 metres

Water: No

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 350/2A

Survey method: Single Shot Camera
Final depth: 113.0 metres
Casing depth: 1 metre

Depth surveyed to: 113.0 metres
Date surveyed to: 12-1-1978
Surveyed by: I. Denby
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	E
29	102°	74	2.15	-87.85	28.98	0.31	1.10
50	078	50	2.15	-87.85	49.96	0.84	1.74
71	079	51	2.30	-87.70	70.94	1.42	2.45
92	053.3	25.3	1.15	-88.85	91.94	1.84	2.65
113	044.3	16.3	1.15	-88.85	112.94	2.28	2.78

REMARKS:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 350/2A

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 5851	12	13	1.0	1.0	0.09	<0.01		
52	13	14	"	"	0.52	0.01		
53	14	15	"	"	0.11	0.01		
54	15	16	"	"	0.18	0.03		
55	16	17	"	"	0.44	0.08	16.19 m	
56	17	18	"	"	2.16	0.23	3m @ 1.56% WO_3	
57	18	19	"	"	2.07	0.13	0.15% Mo	
58	19	20	"	0.90	<0.1	<0.01		
BH 5859	25	26	"	1.0	<0.01	<0.01		
60	26	27	"	"	0.12	<0.01		
61	27	28	"	"	1.46	0.08		
62	28	29	"	"	0.01	<0.01		
BH 5863	39	40	"	"	<0.01	<0.01		
64	40	41	"	"	0.81	0.05	40.44 m	
65	41	42	"	"	1.72	0.09	4m @ 0.77% WO_3	
66	42	43	"	"	0.13	0.01	0.04% Mo	
67	43	44	"	"	0.44	0.02		
68	44	45	"	"	0.10	<0.01		
BH 5869	48	49	"	"	<0.01	<0.01		
70	49	50	"	"	0.40	0.02		
71	50	51	"	"	<0.01	<0.01		
BH 5876	97	98	"	"	<0.01	<0.01		
77	98	99	"	0.90	0.13	<0.01		
78	99	100	"	0.90	1.73	0.08	99.101 m	
79	100	100	"	0.90	0.67	0.03	2m @ 1.20% WO_3	
80	101	102	"	"	0.02	<0.01	0.05% Mo	

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 350/2A

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.7	2.7	2.04	76
6.1	3.4	3.5	103
9.1	3.0	2.96	99
12.1	3.0	3.2	107
15.1	3.0	2.9	97
18.1	3.0	2.97	99
21.1	3.0	3.0	100
24.1	3.0	2.85	95
27.1	3.0	2.8	93
30.1	3.0	2.9	97
33.0	2.9	2.86	95
36.0	3.0	2.92	97
39.0	3.0	2.96	99
42.0	3.0	3.0	100
45.0	3.0	3.0	100
48.0	3.0	2.94	98
51.0	3.0	2.94	98
54.0	3.0	2.90	97
57.0	3.0	2.87	96
60.0	3.0	2.97	99
63.0	3.0	3.0	100
66.0	3.0	2.8	93
69.2	3.2	3.4	106
72.0	2.8	2.86	102
75.0	3.0	2.95	98
78.0	3.0	2.90	97
81.0	3.0	2.93	98
86.0	5.0	4.90	98
89.0	3.0	2.96	99
92.0	3.0	2.93	98
94.8	2.8	2.68	96
96.0	1.2	1.14	95
99.0	3.0	2.66	89
102.0	3.0	2.75	92
105.0	3.0	2.89	96
108.0	3.0	2.97	99
111.0	3.0	2.84	95
113.0	2.0	1.95	98

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Bh 350/2A

0.00 - 10.50m Podded Biotite - Pyroxene Hornfels

Barren dark purple biotite hornfels with short pyroxene rich sections. Pods of calcite reach 2.3 centimetres in diametre.

3.85 metres. Secondary calcite along joint plane.

8.9 - 9.5 metres. Broken core. Core breaks along small calcite veinlets.

Fractures / m = 4

10.50 - 15.90m Pyroxene - Garnet Hornfels

Pyroxene / grossular groundmass which has pods of calcite / grossular up to 2 centimetres diametre.

13.33 - 13.39. Coarse scheelite. Medium grained scheelite is sparsely disseminated throughout.

Fractures / m = 4.

15.90 - 18.90m Garnet Hornfels

Massive garnet hornfels with fine grained (ore grade) disseminated scheelite throughout.

18.6 - 18.9 metres. Calcite becomes more abundant.

Fractures / m = 3

18.90 - 26.40m Marble

Barren grey fine grained marble with minor fine grained grossular and pyroxene. Small bands of grossular are present throughout.

23.1 metres bedding 20° to core axis.

Fractures / m = av. 4 (to 14).

26.40 - 28.40m Garnet Hornfels

Pyroxene rich garnet hornfels with fine grained (ore grade) disseminated scheelite present throughout. Towards the end of the unit small calcite pods are present.

Fractures / m = 4.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/2A

28.40 - 40.45m Unmineralized Banded Footwall Beds

Interbedded white fine grained marble, biotite hornfels and pyroxene hornfels. The unit is barren of scheelite.

31.5 metres bedding 35 to core axis
39.3 metres bedding 40° core axis

Fractures / m = 4

40.45 - 44.00m Mineralized Banded Footwall Beds

Pyroxene - rich garnet hornfels is interbedded with biotite hornfels and pyroxene hornfels.

Fine grained disseminated scheelite is present in the garnet hornfels sections of this unit.

Fractures / m = 7

44.50 - 71.10m Unmineralized Banded Footwall Beds

Interbedded fine grained marble, biotite hornfels and pyroxene hornfels. The unit is barren of scheleite mineralization except for:

49.3 - 50.0 metres. Fine grained disseminated scheelite is garnet hornfels.

66.8 - 67.1 metres. Sparsely disseminated fine grained scheelite in disturbed marble / garnet / pyroxene hornfels.

70.5 metres. Single crystals of scheelite.

From 60.0 - 62.0 Bedding is desturbed to give appearance of podded pyroxene hornfles.

65.5 metres. Possible fault zone (3 centimetres of pughy core.)

At	51.6	metres	bedding is	15°	to	core axis
"	52.9	"	"	60°	"	"
"	58.3	"	"	65°	"	"
"	62.1	"	"	48°	"	"
"	65.0	"	"	10°	"	"
"	69.3	"	"	40°	"	"

Fractures / m av 5 (up to 15).

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/2A

71.10 - 84.70 m Biotite - Pyroxene Hornfels

Interbedded purplish brown biotite hornfels with light green pyroxene hornfels. Pyroxene hornfels becomes more abundant towards the base of the unit, and minor marble with grossular is also present.

77.20 - 77.26 metres. Minor fine grained disseminated scheelite.

83.3 - 84.70 metres. Fracture parallel to the core axis has resulted in crumbly and broken core.

Depth	Bedding / CA
73.0	25° -(in opposite
73.7	30°-60° -(directions
80 metres	60°

Fractures / m = 6.

84.70 - 93.70 m Banded Footwall Beds

Interbedded marble (often containing grossular) biotite hornfels and pyroxene hornfels.

Minor fine grained disseminated scheelite is present at 91.8 metres, 92.0 - 92.05 metres and 92.2 metres.

93.5 - 93.7 metres. Minor red hematite staining along small veinlets.

At 88.0 metres bedding is 60° to core axis.

Fractures / m = 7.

93.70 - 94.60 m Fault Zone

Broken core consisting of biotite hornfels, pyroxene hornfels and marble. Soft secondary calcite is present on some of the fracture planes.

94.60 - 98.70 m Biotite - Pyroxene Hornfels

Pyroxene hornfels interbedded with smaller amounts of biotite hornfels. Calcite veinlets are common.

Fractures / m = 11.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 350/2A

98.70 - 100.60m **Garnet - Pyroxene Hornfels**

Coarser grained almandine pyroxene and calcite in a matrix of finer grained minerals. Scheelite is abundant as fine to medium grained disseminations.

Fractures / m = 8.

100.60 - 102.90m **Marble**

Grey to white medium grained marble.

Fractures / m = 3.

102 - 110.80m **Banded Footwall Beds**

Interbedded marble (containing grossular garnet) pyroxene and biotite hornfels, with marble being more abundant than the other two rock types.

Fractures / m = 6.

110.80 - 113.00m **Biotite Pyroxene Hornfels**

Interbedded biotite and pyroxene hornfels. Small beds within the unit have been oxidised and are now a yellowish brown in colour.

Fractures / m = 15.

EOH 113.00 metres.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 350/2a

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
5852	0.52	0.01	7975			7976			7977			
5861	1.46	0.08	7978	1.06	<0.01	7979	1.50		7980	1.30		
5870	0.40	0.02	7981	0.36	<0.01	7982	0.410		7983	0.36		
5879	0.67	0.03	7984	0.83	<0.01	7985	0.850		7986	0.74		


DDH BH 350/2A
00.00 – 15.10 m.


DDH BH 350/2A
15.10 – 30.53m.


DDH BH 350/2A
30.53 – 45.60m.


DDH BH 350/2A
45.60 – 60.90 m.


DDH BH 350/2A
60.90 – 75.78 m.


DDH BH 350/2A
75.78 – 90.50 m.


DDH BH 350/2A
90.5 – 105.94 m.


DDH BH 350/2A
105.94 – 113.00 m.
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 350/1

PLANNING

Proposer: D. Cowan — Depth: 15 m

Location: Q 42 drill drive

Purpose of hole: To locate ~~Bowday~~ Boundary Fault

Co-ordinates: 40401.0 E 10350.0 N
Inclination: +1°
Bearing 090 Grid — Magnetic:
Target: E — Target Depth:
Approved by: M.C.R. — N
Date: 13-10-77

SURVEY

Survey Co-ords: E — N
Survey bearing: 89° 50' Grid — Magnetic:
Surveyed in by: — Date:
Actual Co-ords: 40 401.33 E 10 350.55 — N
R.L. of Collar: 953.06 — Inclination of Hole: +1° 18'
Picked up by: A. Grigulis — Date: 2-11-77

SUMMARY

Logged by: G. Brown
Results: No ore intersection

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 13-10-77 — Date terminated: 15-10-77

Casing:	Size:		BX		
	Depth:		0.5		
Core:	Size:		AIT		
	Depth:		15.0		

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

Extension: Nil
Reason for termination: In quartzites

Condition of hole on completion: — Final depth: 15.0
Casing: Pulled
Cemented: No
Bore hole survey: Acid tube
Water: Hole making large flow of water from fault zone.

Comments on drilling conditions:

good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 350/1

Survey method: Acid

Final depth : 15.00 m

Casing depth :

Depth surveyed to: 15.00 m

Date surveyed: 14-10-77

Surveyed by : J. Archer

Checked by : L. Denby

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
15.00 m	-	-	+1°	+1°	-	-	-

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 350/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 1.70	1.70	1.58	
- 3.10	1.40	1.40	
- 4.80	1.70	1.71	
- 5.00	0.20	0.17	
6.20	1.20	1.11	
7.10	0.90	0.92	
8.70	1.60	1.57	
10.20	1.50	1.33	
10.30	0.10	0.08	80
10.70	0.40	0.31	
11.20	0.50	0.60	
12.10	1.00	0.91	
12.50	0.30	0.39	
13.60	1.10	0.84	
15.00	1.40	1.06	

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 350/1

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 5401	5	6	1.0	1.0	<0.01	<0.01		
2	6	7	"	"	0.18	0.01		
3	7	8	"	"	0.09	<0.01		
4	8	9	"	"	0.19	0.01		
5	9	10	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 350/1

0.00 - 6.43 Podded biotite hornfels

A unit of podded and spotted biotite pyroxene hornfels in which the brown biotite rich zones are dominant.

Quite large amounts of pyrite are present between: 5.76 - 5.90 metres associated with a fragmental pyroxene rich area.

6.43 - 9.37 Pyroxene garnet hornfels

A unit of brown / green garnet rich pyroxene garnet hornfels with quite large amounts of free calcite present as small pods and dissemated throughout the groundmass.

Scheelite mineralization, sub grade, is present throughout.

9.37 - 10.30 Fault Zone

A typical disturbed zone gradational in appearance between pgh and quatzite with large amounts of silica present here.

The last 10 centimetres are a fault pug and a high water flow was recorded here.

10.30 - 15.00 EOH Quatzites

A typical sequence of grey quatzites, with only minor siltstone units present here.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH/350/1

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
5402	0.18	0.01	7437	0.20	0.01	7438	0.230		7439	0.14		


DDH BH 350/1
00.00 – 14.60 m.