GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 675/15

PLANNING

PROPOSER: T. F. Potter — DEPTH: 70 m

LOCATION: Upper B Lens

PURPOSE OF HOLE: Define Extent an Grade of C_1 and C_2 (Updip of R60 stope)

PROPOSED CO-ORDS: 40 367 E 10 675 N

INCLINATION: -80°

BEARING: 270 $^{\circ}$GRID $^{\circ}$MAG

TARGET: E N

DEPTH:

CHECKED BY: S. G. Brown — DATE: 2/9/80

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: 286° $^{\circ}$GRID $^{\circ}$MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40 362.0 E 10 676.6 N

R.L. OF COLLAR: 1010.2

INCLINATION OF HOLE: -79° 40'

PICKED UP BY: B. Lennon — DATE: 4/9/80

SUMMARY

LOGGED BY: T. F. Potter

RESULTS: 1 - 5 m 4 m @ 0.98%
43 - 45 m 2 m @ 0.42%

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

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 675/15

Surveyed method: Single Shot
Final depth: 55 m
Casing depth: 0.0 m

Depth surveyed to: 55 m
Date surveyed: 11/9/80
Surveyed by: R. Drake
Checked by: B. Schneiders

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.			
5 m	294°	266°	10°	-80°			
20 m	297°	269°	10°	-80°			
40 m	299°	269°	10°	-80°			
55 m	294°	266°	10° 30'	-79° 30'			
EOH							

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 675/15

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.5 m	3.5	3.5	100
3.5 - 6.5	3.0	3.0	100
6.5 - 11.0	4.5	4.5	100
11.0 - 13.8	2.8	2.8	100
13.8 - 16.8	3.0	3.0	100
16.8 - 19.8	3.0	3.0	100
19.8 - 22.8	3.0	3.0	100
22.8 - 25.8	3.0	3.0	100
25.8 - 28.8	3.0	3.0	100
28.8 - 31.8	3.0	3.0	100
31.8 - 34.8	3.0	3.0	100
34.8 - 37.8	3.0	3.0	100
37.8 - 40.8	3.0	3.0	100
40.8 - 43.8	3.0	3.0	100
43.8 - 46.8	3.0	3.0	100
46.8 - 49.8	.30	3.0	100
49.8 - 52.8	3.0	3.0	100
52.8 - 55.0	2.2	1.5	
EOH			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 675/15

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC-TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W.R.T./ L.A.O.C)	% CORE RECO-VERY	R.Q.D.	REMARKS (WEATHERING)
0.0 - 5.85	B Lens	5.85			3.5			
5.85 - 11.0	bh	5.15			2.1			
11.0 - 15.65	B Lens	4.65			1.7			
15.65 - 40.6	bh	24.95			1.2			
40.6 - 50.92	pgh	10.32			1.0			
50.92 - 52.8	bph	1.88			1.28			
52.8 - 54.1	F.Z.	1.3			Nil		Nil	
54.1 - 55.0	Ad	0.9			0.1		11	

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 675/15

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 8554	0	1	1.0	1.0	0.20			
55	1	2	"	"	0.48			
56	2	3	"	"	0.58			
57	3	4	"	"	2.10			
58	4	5	"	"	0.74			
59	5	6	"	"	0.01			
60	40	41	"	"	0.17			
61	41	42	"	"	0.27			
62	42	43	"	"	0.21			
63	43	44	"	"	0.37			
64	44	45	"	"	0.46			
65	45	46	"	"	0.28			
66	46	47	"	"	0.06			
67	47	48	"	"	0.10			
68	48	49	"	"	0.05			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 675/15

0.0 - 0.55 m PYROXENE CALCITE HORNFELS

Pyroxene rich rock with vague calcite zone. Unmineralised.

0.55 - 1.6 MARBLE

Grey marble with some calcite veining. Both top and bottom merges into the pyroxene calcite hornfels.

1.6 - 2.7 PYROXNEE CALCITE HORNFELS

As above but contain weak scheelite. Some calcite zones shows a dip of 70° to core axis.

2.7 - 3.2 CALCITE FELSPAR HORNFELS

Dark calcite hornfels with yellow crystals up to 3 mm of felspar. Strong shear at 70° at bottom contact.

3.2 - 5.85 PYROXENE HORNFELS

Pyroxene hornfels with minor development of garnet and very vague pyroxene calcite hornfels zones. At 4.4 m 2 cm wide shear zones at 25° to core axis.
5.0 to 5.85 shows a joint or shear system partly infilled with calcite at 15 - 25° to core axis.
Unit is weakly mineralised.
4.4 - 4.6 m calcite felspar hornfels.

5.85 - 10.80 BIOTITE HORNFELS

Uniform biotite hornfels
6.0 - 6.1 broken core.
7.3 - 8.2 broken core with slikensides at 20° to core

10.8 - 11.0 FAULT ZONE

Pyroxene calcite rich rock, crumbly and leached. The entire sequence from about 1.6 to 5.85 is re-intersected at 10.8 to 15.65 m.

11.0 - 12.1 PYROXENE CALCITE HORNFELS

Pyroxene rich rock showing leached appearance. Very minor garnet development and very weak scheelite 11.0 - 11.5.
12.0 joint at 10°.

12.1 - 12.5 CALCITE FELSPAR HORNFELS

Fine grained dark calcite hornfels,with felspar crystals.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 675/15

12.5 - 13.4 m PYROXENE HORNFELS

Pyroxene hornfels with some calcite and garnet development. Unmineralised core is broken and sheared.

13.4 - 13.6 CALCITE FELSPAR HORNFELS

Fine grained and dark marble showing some molybdenum on top contact.

13.4 - 15.65 PYROXENE HORNFELS

Pyroxene hornfels showing a stronger development of garnet than above the Fault Zone. Unmineralised.

15.65 - 26.3 BIOTITE HORNFELS

Uniform biotite hornfels.
18.6 shear at 45° to core.
23.1 - 23.5 leached zone showing two 3 - 5 cm quartz veins.

26.3 - 27.6 APLITE

Varies from a pink to an aplite with 50% biotite. Bottom contact distinct at 80° to core axis.

27.6 - 40.6 BIOTITE HORNFELS

Solid biotite hornfels with a pyroxene biotite hornfels zone at 30.8 m.
36.8 - 37.4 quartz felspar pegmatite at 15° to core axis.

40.6 - 50.92 PYROXENE GARNET HORNFELS

Unit grades from a pyroxene garnet hornfels where the garnet is weak to moderate developed to a pyroxene garnet hornfels with no garnet and dark green pyroxene. Calcite pods like wise grade from vague units to a definite clear calcite pod at the base.

41.8 major joint sub-parallel to axis.
40.6 - 45.3 overall very weak mineralisation with two or three 5 cm zones of moderate grade.

50.92 - 52.8 BIOTITE PYROXENE HORNFELS

Typical biotite pyroxene hornfels with calcite pods. 52.7 5 cm crushed zone.

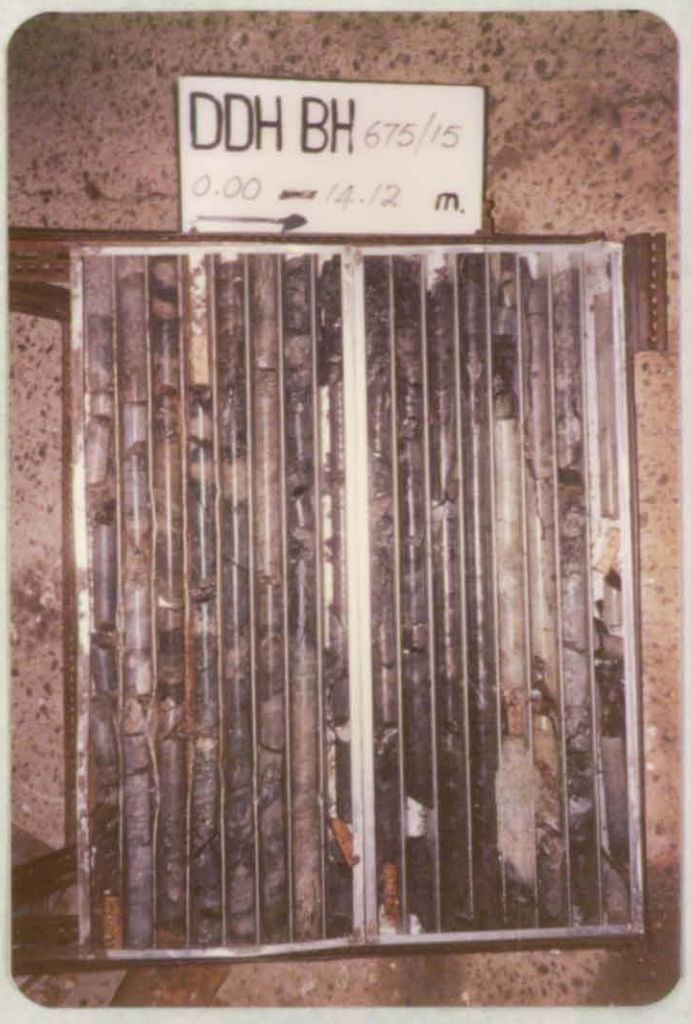
52.8 - 54.1 FAULT ZONE - WESTERN FAULT

Pebbles of biotite pyroxene hornfels and sheared calcite rubbish. 0.8 m core loss.

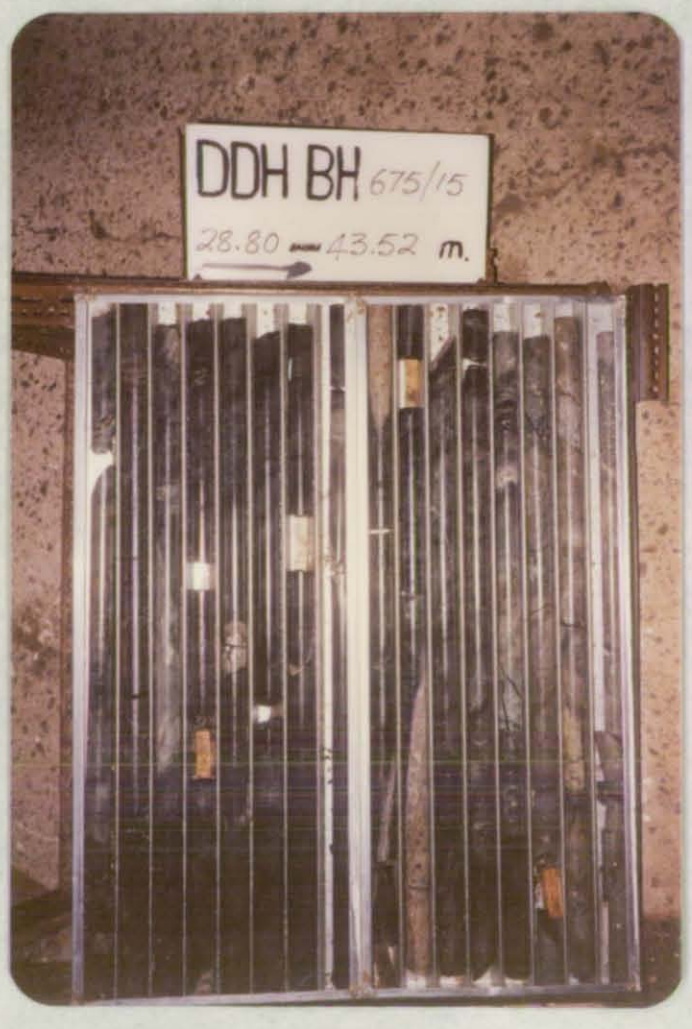
54.1 - 55.0 ADEMALLITE

Very fine grained and broken with a shear zone with calcite at 55.0 m

EOH 55.0 m


DDH BH 675/15
0.00 — 14.12 m.


DDH BH 675/15
14.12 — 28.80 m.


DDH BH 675/15
28.80 — 43.52 m.


DDH BH 675/15
E.O.H
43.52 — 55.00 m.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 675/14

PLANNING

PROPOSER: T. Potter DEPTH: 15 m

LOCATION: A Lens Outcrop

PURPOSE OF HOLE: Structure & Grade

PROPOSED CO-ORDS: 40351 E 10675 N

INCLINATION: -75°

BEARING: 090 °Grid °Mag

TARGET: E N

DEPTH:

CHECKED BY: DATE:

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: °Grid °Mag

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40351.6 E 10673.9 N

R.L. OF COLLAR: 1113.65

INCLINATION OF HOLE:

PICKED UP BY: B. Lennon DATE: 7/8/80

SUMMARY

LOGGED BY:

RESULTS:

DRILLING

DATE COMMENCED: DATE TERMINATED:

DRILLER/CONTRACTOR: Geopeko - Jacro Drill

CASING: SIZE:
DEPTH:

AUGER: SIZE:
DEPTH: 13.5

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 13.5 m

REASON FOR TERMINATION:

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 675/14

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
KF 383	0.0	1.5	1.5		0.013			
384	1.5	3.0	"		0.01			
385	3.0	4.5	"		0.02			
386	4.5	6.0	"		0.01			
387	6.0	7.5	"		0.01			
388	7.5	9.0	"		0.01			
389	9.0	10.5	"		0.01			
390	10.5	12.0	"		0.01			
391	12.0	13.5	"	Auger Samples.	0.01			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 675/14

0.0 - 1.5 m	Dark orange brown clay, some humus
1.5 - 3.0	Orange brown clay
3.0 - 4.5	" " "
4.5 - 6.0	" " "
6.0 - 7.5	" " "
7.5 - 9.0	" " "
9.0 - 10.5	" " "
10.5 - 12.0	" " "
12.0 - 13.5	" " "

EOH 13.5 m

Clay 0.0 - 13.5 m

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 675/13

PLANNING

PROPOSER: R. E. Sandell Davies DEPTH: 65 m

LOCATION: J68 Upper B Lens

PURPOSE OF HOLE: Define C Lens West

PROPOSED CO-ORDS: 40 350 E 10 675 N

INCLINATION: -85°

BEARING: 270° °GRID °MAG

TARGET: E N

DEPTH: 30, 50 m

CHECKED BY: T. Potter DATE: 11/4/80

SURVEY

SURVEY CO-ORDS: 40 350.6 E 10 675.0 N

SURVEYED BEARING: 270° °GRID °MAG

SURVEYED IN BY: B. Lennon DATE:

ACTUAL CO-ORDS: 40350.6 E 10675.0 N

R.L. OF COLLAR: 1009.8

INCLINATION OF HOLE: -85°

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

SUMMARY

LOGGED BY:

RESULTS:

DRILLING

DATE COMMENCED: 3/80 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

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 675/13

Surveyed method: Not surveyed
Final depth: 37 m
Casing depth: Nil

Depth surveyed to: 0.0 m
Date surveyed: 10/4/80
Surveyed by:
Checked by: B. Schneiders

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.			
20	270°	242°	5°	-85°	ASSUMED		
37	270°	242°	5°	-85°	ASSUMED		
EOH							

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 675/13

0.0 - 6.3 m GARNET PYROXENE HORNFELS?

Light coloured fine grained rock consisting of a high percentage of diopsidic pyroxene with occasional calcite + chlorite infillings on joint planes. Essentially barren with minor mineralisation present as individual crystals <2 mm.

6.3 - 11.3 BIOTITE HORNFELS

Fine grained thinly laminated dark biotite hornfels with leaching adjacent to shear zones.

11.3 - 17.2 MARBLE

Strongly veined marble with strong development of angular biotite + chlorite rich bands.
Fault 9.9 - 10 m
11.2 m

17.2 - 37.0 BIOTITE HORNFELS

Dark fine grained thinly laminated biotite hornfels with minor calcite + chlorite in joints + veinlets
Intense shearing + faulting after 23 m with clays and brecciated biotite hornfels in these faults.
Several thin calcite veins common with occasional quartzite veinlets parallel to shears.

Strongly sheared zones at
23.0 - 23.5 m 28.6 m
24.9 - 25.0 m 36.4 m
25.7 - 26.2 m 31.4 m
26.2 - 26.9 m 33.9 - 34.8 m

Western Fault zone from 35.5 m

EOH 37.0 m (Western Fault Zone)

No economic mineralisation


DDH BH 675/13
0.00 — 14.37 m.


DDH BH 675/13
14.37 — 28.18 m.


DDH BH 675/13
28.18 — 37.00 m.
E.O.H.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 675/12

PLANNING

PROPOSER: R. E. S. Davies — DEPTH: 50 m

LOCATION: J68 Upper B Lens

PURPOSE OF HOLE: Test C Lens West

PROPOSED CO-ORDS: 40 350 E 10 675 N

INCLINATION: -62°

BEARING: 270° °GRID °MAG

TARGET: E N

DEPTH: 35 m

CHECKED BY: T. Potter — DATE: 19/3/80

SURVEY

SURVEY CO-ORDS: 40 349.8 E 10 674.9 N

SURVEYED BEARING: 275° 58' °GRID °MAG

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40 349.8 E 10 674.9 N

R.L. OF COLLAR: 1009.78

INCLINATION OF HOLE: -62° 10'

PICKED UP BY: B. Lennon — DATE: 21/3/80

SUMMARY

LOGGED BY: R. E. Sandell Davies

RESULTS: 0.0 - 1.0 m, 1 m @ 0.44% WO_3 & 0.01% Mo B Lens
3.0 - 4.0 m, 1 m @ 0.32% WO_3 & 0.02% Mo B Lens

DRILLING

DATE COMMENCED: 20/3/80 DATE TERMINATED: 24/3/80

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

CASING: SIZE:
DEPTH: 18 m

CORE: SIZE:
DEPTH:

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 48 m

REASON FOR TERMINATION: In adamellite

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY: Multishot 48 m

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 675/12

Surveyed method: Multishot
Final depth: 48 m
Casing depth: 18 m

Depth surveyed to: 48 m
Date surveyed: 24/3/80
Surveyed by: B.A. Schneiders
Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.			
12	274°	246°	28°	-62°	10.59 m		
23	274°	246°	28°	-62°	20.30		
34	274°	246°	28°	-62°	30.01		
48	275°	247°	28° 15'	-61° 45'	42.34		

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. D 675/12

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.6 m	3.6	3.3	92
3.6 - 5.2	1.6	1.4	88
5.2 - 6.8	1.6	1.5	94
6.8 - 8.3	1.5	1.5	100
8.3 - 9.8	1.5	1.5	100
9.8 - 11.3	1.5	1.1	73
11.3 - 12.5	1.2	0.9	75
12.5 - 13.1	0.6	0.3	50
13.1 - 13.8	0.7	0.5	71
13.8 - 14.0	0.2	0.1	50
14.0 - 15.8	1.8	1.3	72
15.8 - 17.3	1.5	1.5	100
17.3 - 18.0	0.7	0.7	100
18.0 - 20.1	2.1	2.0	95
20.1 - 21.3	1.2	1.2	100
21.3 - 23.0	1.7	1.7	100
23.0 - 24.1	1.1	1.0	91
24.1 - 27.0	2.9	2.9	100
27.0 - 30.0	3.0	3.0	100
30.0 - 33.0	3.0	3.0	100
33.0 - 35.0	2.0	2.0	100
35.0 - 38.0	3.0	3.0	100
38.0 - 41.0	3.0	3.0	100
41.0 - 44.0	3.0	3.0	100
44.0 - 47.0	3.0	3.0	100
47.0 - 48.0	3.0	3.0	100
EOH 48.0 m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 675/12

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
BH 7411	0	1	1.0	1.0	0.44	0.01		
12	1	2	"	"	0.18	0.02		
13	2	3	"	"	0.05	0.01		
14	3	4	"	"	0.32	0.02		
15	4	5	"	"	0.01	0.01		
16	5	6	"	"	0.01	0.01		
17	6	7	"	"	0.01	0.01		
18	7	8	"	"	0.01	0.01		
19	8	9	"	"	0.01	0.01		
20	9	10	"	"	0.01	0.01		
21	10	11	"	"	0.01	0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 675/12

0.0 11.3 m B LENS MARBLE

The first 1 m of core is rubble from stope floor. The remainder is poorly mineralised B lens marble. It is mostly a fresh grey colour but with fregment breaks in the core.

11.3 - 20.0 WESTERN FAULT ZONE

This area consists of broken and rubbly core, ironstained in places. The lithology is biotite hornfels.

20.0 - 28.7 BIOTITE HORNFELS

Massive, dark grey fine grained biotite hornfels.

Bedding 60° to LCA @ 20.7 m
60° 23.9 m

The bottom contact with the granite is virtually at 90° to LCA

28.7 - 48.0 ADAMELLITE

From 28.7 = 35.0 m it is mostly a pale pink medium grained (0.7 m) aplite. 35.0 - 41.5 m is a black and white coloured aplite. From 41.5 - 48.0 m is a true pink, coarse grained biotite hornfels. adamellite (feldspars 1 cm wide).

EOH 48.0 m


DDH BH 675/12
0.00 — 15.88 m.


DDH BH 675/12
15.88 — 30.00 m.


DDH BH 675/12
30.00 — 44.81 m.


DDH BH 675/12
44.81 — 48.00 m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO.B 675/11

PLANNING

Proposer: S. G. Brown — Depth: 80

Location: L 66 Drive

Purpose of hole: To test C_1 and C_2 lenses

Co-ordinates: 4.0367.0 E 10675.0 N
Inclination: -52°
Bearing 090 Grid — Magnetic:
Target: E — Target Depth:
Approved by: M.C.R. — N — Date: 15-6-77

SURVEY

Survey Co-ords: E — N
Survey bearing: 85° 54' Grid — Magnetic:
Surveyed in by: — Date:
Actual Co-ords: 40 363.44 E 10 675.22 — N
R.L. of Collar: 1009.42 — Inclination of Hole: -50° 28'
Picked up by: A. Grigulis — Date: 21-10-77

SUMMARY

Logged by: G. Brown
Results: 1 - 8 m 7 m @ 0.55% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 14-10-77 — Date terminated: 20-10-77

Casing:	Size:	BX
	Depth:	2m
Core:	Size:	46TT
	Depth:	62.8

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

Extension: Nil
Reason for termination: Hole in adamellite

Condition of hole on completion: — Final depth: 62.8 m
Casing: No
Cemented: No
Bore hole survey: Multishot to 62.8 m
Water: No

Comments on drilling conditions:

Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 675/11

Survey method: Multishot Camera
Final depth : 62.80 m
Casing depth : 2 m

Depth surveyed to: 62.80m
Date surveyed: 20-10-77
Surveyed by : L. Denby
Checked by : G. Brown

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
14	086	058	38.25	-51.75	10.94	4.73	7.58
40	086	058	38.5	-51.5	31.29	13.18	21.38
62.8	086	058	38.25	-51.75	49.20	20.33	32.83

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No.B 675/11

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 5.80	5.80	4.60	
- 8.80	3.00	2.99	100
12.80	4.00	3.94	98
15.80	3.00	3.05	102
17.80	2.00	2.01	100
21.80	4.00	4.11	103
23.80	2.00	1.90	35
28.80	5.00	4.88	98
30.80	2.00	1.88	94
34.80	4.00	3.74	94
37.80	3.00	3.90	190
35.80	2.00	2.55	128
41.80	2.00	1.90	95
43.80	2.00	1.88	94
45.80	2.00	1.88	94
48.80	3.00	3.18	106
50.80	2.00	1.93	97
53.80	3.00	3.12	104
56.80	3.00	2.93	98
59.80	3.00	2.93	98
62.80	3.00	2.86	95
EOH			

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 675/11

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 5406	0	1	1.0	0.51	0.22	0.01		
7	1	2	"	0.78	0.82	0.02		
8	2	3	"	0.69	0.68	0.03		
9	3	4	"	1.0	0.30	<0.01	7 m	
10	4	5	"	"	0.42	<0.01	2	
1	5	6	"	"	0.58	<0.01	0.55% WO_3	
2	6	7	"	"	0.47	<0.01		
3	7	8	"	"	0.63	0.02		
4	8	9	"	"	0.01	<0.01		
BH 5415	9	10	"	"	0.17	<0.01		
BH 5416	49	50	1.0	1.0	<0.01	<0.01		
7	50	51	"	"	0.03	<0.01		
8	51	52	"	"	0.13	<0.01		
9	52	53	"	"	0.30	0.01		
20	53	54	"	"	<0.01	<0.01		
1	54	55	"	"	<0.01	<0.01		
2	55	56	"	"	0.01	<0.01		
3	56	57	"	"	<0.01	<0.01		
5424	57	58	"	"	<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 675/11

0.00 - 7.95 Mineralized Marble

This unit is disturbed and contains andradite garnets and pyroxene throughout. Pyrite is present in the following areas.
4.10 - 4.60 metres 4.78 - 4.99 metres.
A fault is present between 5.45 and 6.40 metres sub parallel to the long core axis.

Sheelite mineralization is present throughout both as dissemated specks and large aggregate crystals. The first 3 metres of this unit ~~was=react~~ may reach ore grade.

7.95 - 16.72 Marble

A grey, black coloured disturbed recrystalized marble with some minor mineralized marble present between 9.60 - 10.58 metres and 15.85 - 16.24 metres.

Only minor bedding is apparent in this unit 43° LCA at 11.5 metres

16.72 - 44.04 Biotite pyroxene hornfels

A podded unit of biotite pyroxene hornfels typical of the unit underlying the B lens marble.

Initially there are a number of angular silica rich fragments present in the biotite rich matrix but below about 19.5 metres these are replaced by blotchy fragments which grade into the matrix.Below 38.0 metres silica rich fragments with sharp contacts are again present.

Small aplite dykes are present between:
26.90 - 28.20 metres, 37.74 metres - 38.54 metres and 42.50 - 43.74 metres.

A probable fault sub parallel to the long core axis is present between:
26.90 - 27.55 metres

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 675/11

44.04 - 47.97 Podded pyroxene hornfels

A small unit of pyroxene hornfels with abundant calcite pods present throughout. This unit is gradational from the unit above. Minor scheelite is present in this unit.

47.97 - 49.95 Aplite

A small band of fine grained mafic poor aplite.

49.95 - 56.65 Podded pyroxene garnet hornfels

This unit contains rather more calcite than is normal and this is present as irregular pods scattered throughout the pyroxene garnet groundmass.

Scheelite is present throughout and may reach ore grade over the first 3 metres.

Minor aplite rich areas are present in the last 3 metres.

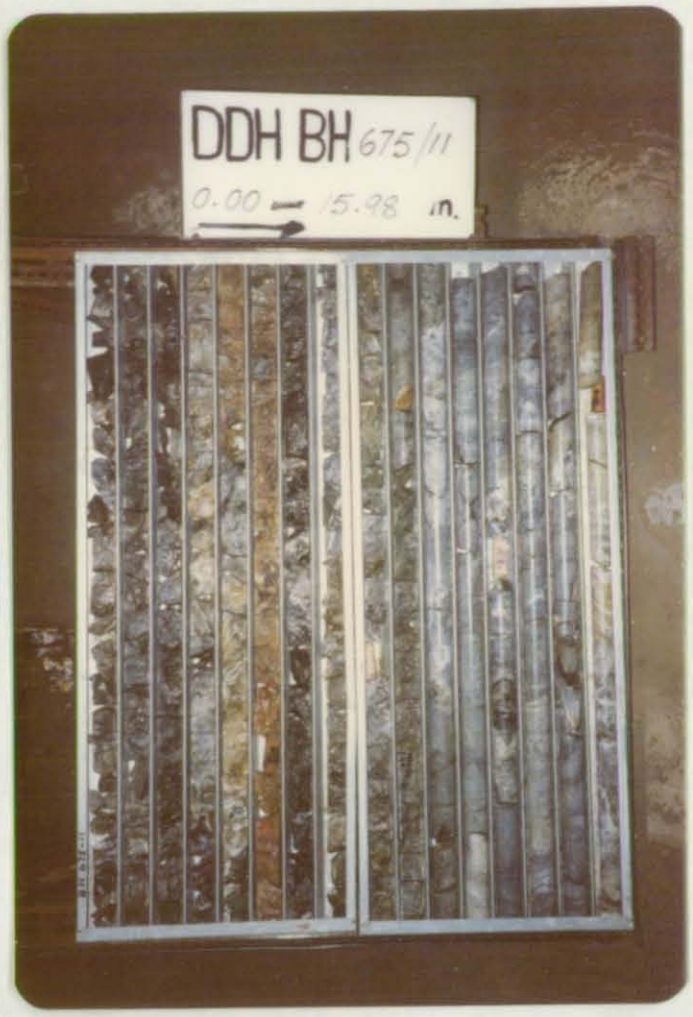
A minor fault with clay is present between: 56.40 - 56.65 metres.

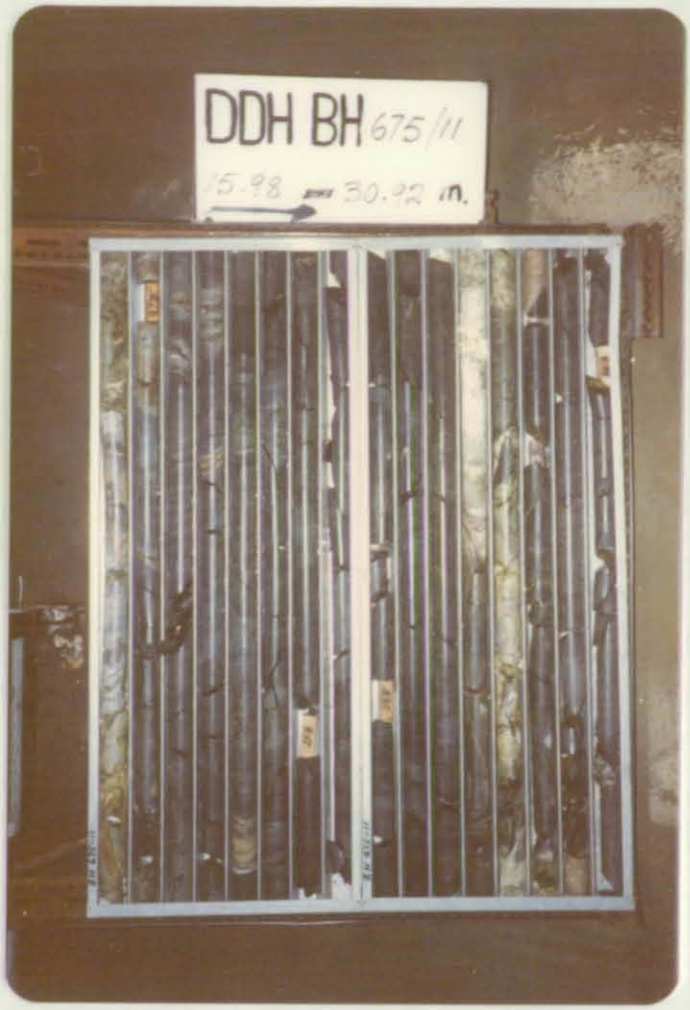
56.65 - 57.49 Biotite pyroxene hornfels

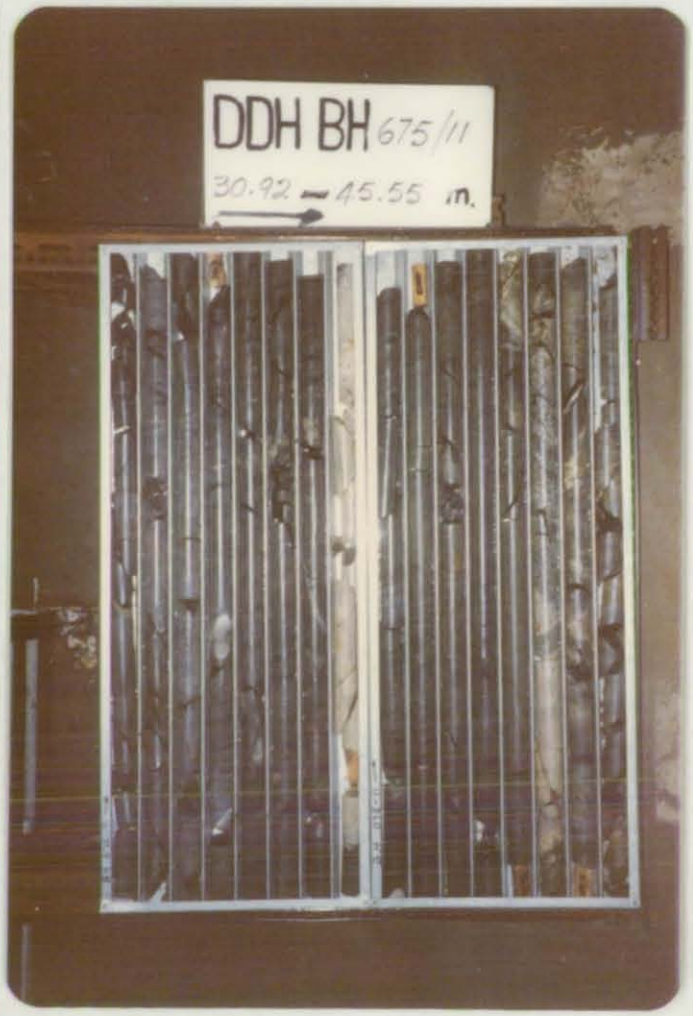
A disturbed unit of biotite pyroxene hornfels with no mineralization.

57.49 - 62.80 EOH Adamellite

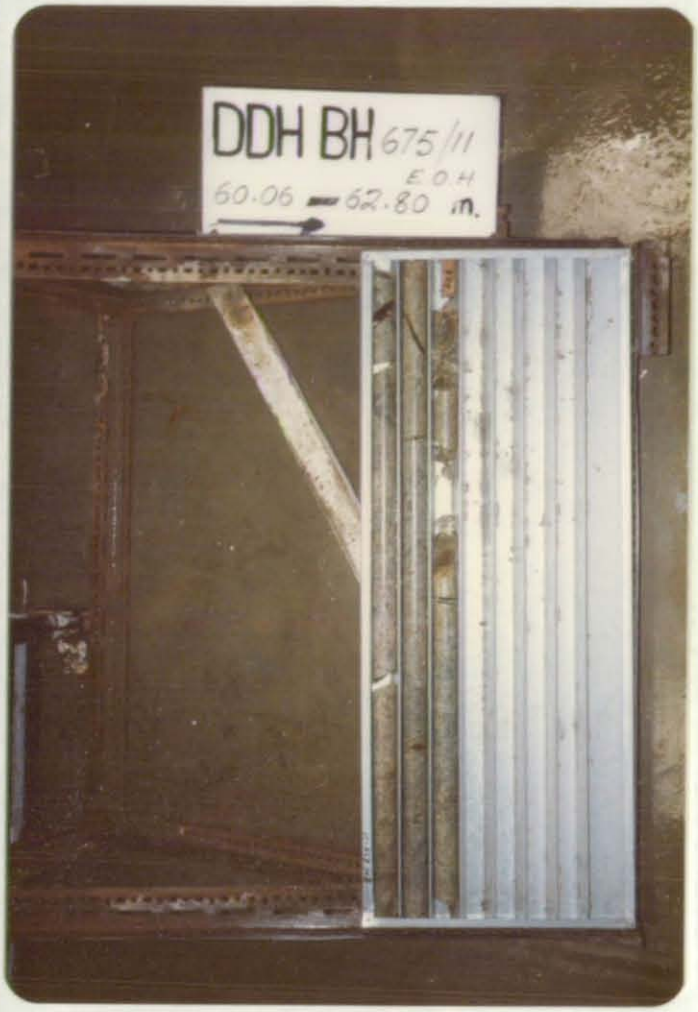
Rather a typical adamellite more like an aplite. Barren of mineralization.


DDH BH 675/11
0.00 — 15.98 m.


DDH BH 675/11
15.98 — 30.92 m.


DDH BH 675/11
30.92 — 45.55 m.


DDH BH 675/11
45.55 — 60.06 m.


DDH BH 675/11
E.O.H
60.06 — 62.80 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 675/10

PLANNING

Proposer: S. Grieve Brown — Depth:

Location: L 66 Drive

Purpose of hole: To test C_1 & C_2 lens

Co-ordinates:	40367.0	E 10675.0	N
Inclination:	-66		Magnetic:
Bearing	090	Grid	Target Depth:
Target:		E	N
Approved by:			Date:

SURVEY

Survey Co-ords:		E	N
Survey bearing:		Grid	Magnetic:
Surveyed in by:			Date:
Actual Co-ords:	40 363.21	E 10 675.22	N
R.L. of Collar:	1009.3		Inclination of Hole:
Picked up by:	A. Grigulis		Date: 21-10-77

SUMMARY

Logged by: D. Cowan

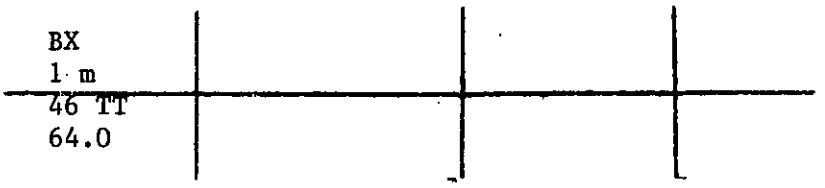
Results: 1 - 4 m, 3 m @ 0.76% WO_3
14 -16 m, 2 m @ 0.52% WO_3

DRILLING

Driller/Contractor: A.D.D

Date commenced: 10-10-77 — Date terminated: 13-10-77

Casing:	Size:	BX
	Depth:	1 m
Core:	Size:	46 TT
	Depth:	64.0



Wedge Runoff:

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

Extension: Nil

Reason for termination: Hole in adamellite

Condition of hole on completion: — Final depth: 64.0 m

Casing:	No
Cemented:	NO
Bore hole survey:	Multishot to 64.0 m
Water:	No

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 675/10

Survey method: Multishot Camera
Final depth : 64.0
Casing depth : 1 m

Depth surveyed to: 64.0
Date surveyed: 13-10-77
Surveyed by : L. Denby
Checked by : G. Brown

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
24	084	056	24.25	-65.75	18.24	5.43	8.26
44	084	056	24	-66	40.14	9.98	15.0
64	082	054	24.25	-65.75	58.38	14.81	21.64

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 675/10

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 6.4	6.4	5.76	90
6.4 - 9.4	3.0	3.04	101
9.4 - 12.4	3.0	3.02	101
12.4 - 15.4	3.0	3.00	100
15.4 - 17.4	2.0	2.02	101
17.4 - 20.4	3.0	3.10	103
20.4 - 23.0	2.6	2.58	99
23.0 - 26.0	3.0	3.03	101
26.0 - 27.3	1.3	1.30	100
27.3 - 28.0	0.7	0.62	89
28.0 - 29.8	1.8	1.81	101
29.8 - 34.4	4.6	4.85	105
34.4 - 37.4	3.0	3.00	100
37.4 - 41.1	4.0	4.03	101
41.4 - 43.4	2.0	2.11	106
43.4 - 46.4	3.0	2.94	98
46.4 - 49.4	3.0	3.00	100
49.4 - 53.4	4.0	3.82	96
53.4 - 56.4	3.0	3.26	109
56.4 - 60.5	4.1	4.28	104
60.5 - 61.6	1.1	1.13	103
61.6 - 63.4	1.8	1.73	96
63.4 - 64.0	0.6	0.60	100

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 675/10

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 5376	0	1	1.0	0.9	0.21	< 0.01		
7	1	2	"	0.9	0.36	0.01	3 m	
8	2	3	"	0.9	0.20	0.01	@	
9	3	4	"	0.9	1.73	0.04	0.76%	WO_3
80	4	5	"	0.9	0.24	<0.01		
1	5	6	"	0.9	0.05	<0.01		
BH 5382	6	7	"	1.0	0.17	0.01		
BH 5383	10	11	1.0	1.0	0.51	0.04		
4	11	12	"	"	<0.01	<0.01		
5	12	13	"	"	0.18	0.01		
6	13	14	"	"	0.17	0.01		
7	14	15	"	"	0.48	0.02	2 m	@
8	15	16	"	"	0.57	0.03	0.52%	WO_3
BH 5389	16	17	"	"	<0.01	< 0.01		
BH 5390	44	45	"	"	<0.01	<0.01		
1	45	46	"	"	<0.01	<0.01		
2	46	47	"	"	<0.01	<0.01		
3	47	48	"	"	<0.01	<0.01		
4	48	49	"	"	0.02	<0.01		
5	49	50	"	"	<0.01	<0.01		
6	50	51	"	"	<0.01	<0.01		
7	51	52	"	"	0.19	0.01		
8	52	53	"	"	<0.01	<0.01		
9	53	54	"	"	<0.01	<0.01		
BH 5400	54	55	"	"	<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 675/10

0 - 2.98 Mineralized Marble

The marble in this interval has largely been replaced by grossular garnet. Abundant felspar occurs between 1.28 - 1.50. Scheelite occurs Between:

0.28 - 0.32 (sub - grade)
0.54 - 0.73 (sub - grade)
1.55 - 1.78 (sub - grade)
2.66 - 2.98 (probable ore - grade)

2.98 - 5.27 Pyroxene - calcite skarn

Contains small amounts of andradite and pyrite throughout. Scheelite occurs between:

2.98 - 3.26 (sub - grade)
3.40 - 3.81 (sub - grade)
4.45 - 4.55 (probable ore - grade)

Broken ground occurs between 5.05 - 5.27

5.27 - 6.65 Mineralized Marble

Similar to 0 - 2.98 interval in which the marble is largely replaced by grossular garnet. Scheelite mineralization (sub - grade) occurs between 5.67 - 6.65

6.65 - 12.40 Marble

A fine grained, poorly banded to disturbed grey marble. Contains minor pyroxene and garnet - rich patches.

Bedding 74° LCA at 10.50
A clay filled joint occurs between 7.64 - 8.26

12.40 - 16.25 Garnet - Pyroxene Skarn

A fairly fine - grained andradite skarn containing scheelite between:

12.40 - 13.35 (sub - grade)
13.71 - 14.03 (sub - grade)
14.64 - 15.92 (probable ore-grade)

16.25 - 39.14 Biotite - Pyroxene Hornfels

A fairly homogenous (except for podded regions),

weaky banded to disturbed unit of bph.

Between 16.25-21.12: Podded bph. The bph here contains silica rich pods up to 4 cm diameter.

Bedding: 55^{o} LCA at 16.48m

Between 21.12 - 29.13: Unpodded bph. Very uniform in appearance.

Bedding 54^{o} LCA at 22.79m
55^{o} LCA at 24.79m

Between 21.23 - 21.41 biotite spots 1 mm in diameter are developed. Aplite dykes occur between 23.51 - 24.00m and 26.22 - 26.46m

Between 29.13 - 31.81: bph with coarse biotite - rich spots up to 0.6 cm diameter.

Between 31.81 - 39.14: Uniform bph which contains sparsely scattered silica - rich pods (up to 2 cm diameter) from 33.67 metres onwards.

39.14 - 43.40 Pyroxene Hornfels.

A distinctive podded unit in which calcite pods (up to 5 cm diameter) are set in a groundmass of fine - grained pyroxene. The calcite pods are often rimmed with grossular garnet

43.40 - 44.52 Quartz - rich Aplite

44.52 - 51.77 Podded pyroxene - garnet hornfels

A typical pgh unit with pods up to 4cm across containing mainly calcite and lesser actinolite. Scattered scheelite specks occur throughout the unit, but the mineralization appears to be well below ore grade.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 675/10

51.77 - 55.41 Pyroxene - quartz skarn

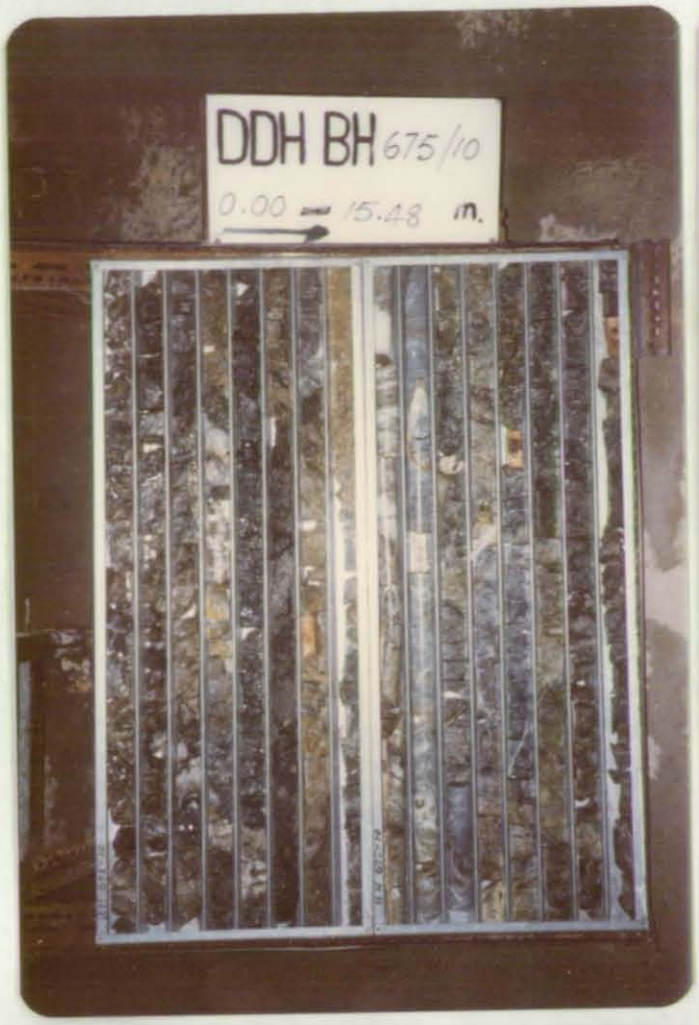
This unit contains abundant felspar down to 52.80 metres, after which it becomes a true pyroxene quartz skarn. What appears to be a relict pgh texture is apparent in some places (eg. 54.4 m). Scheelite mineralization is very weak.

55.41 - 59.28 Pyroxene - felspar rock

A fairly homogenous rock consisting of pyroxene and coarse felspar. Scattered specks of scheelite occur throughout, but unit is definitely sub - grade.

59.28 - 64.00 Adamellite

EOH Typical Bold Head Adamellite.


DDH BH 675/10
0.00 — 15.48 m.


DDH BH 675/10
15.48 — 30.52 m.


DDH BH 675/10
30.52 — 45.24 m.


DDH BH 675/10
45.24 — 60.05 m.


DDH BH 675/10
E.O.H
60.05 — 64.00 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 675/9

PLANNING

Proposer: S. Grieve Brown — Depth: 75

Location: L 66 drive

Purpose of hole: To test C_1 & C_2 lenses

Co-ordinates: 40367.0 E 10675.0 N
Inclination: -83 Magnetic:
Bearing 090 Grid Target Depth:
Target: E N
Approved by: M.C.R. Date: 15-6-77

SURVEY

Survey Co-ords: E N
Survey bearing: Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 40 362.78 E. 10 675.22 N
R.L. of Collar: 1009.3 Inclination of Hole:
Picked up by: A. Grigulis Date: 21-10-77

SUMMARY

Logged by: D. Cowan
Results: 48 - 55 7m a) 0.83% WO_3

DRILLING

Driller/Contractor: A.D.D.

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

Casing: Size: BX
Depth: IM
Core: Size: 46 TT
Depth: 69.3

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

Extension: Nil
Reason for termination: Hole in adamellite

Condition of hole on completion: Final depth: 69.3m
Casing: No
Cemented: No
Bore hole survey: Multishot to 69.3m
Water: No

Comments on drilling conditions: Good

See additional assay sheet.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 675/9

Survey method: Multishot Camera

Final depth : 69.3m

Casing depth : 1m

Depth surveyed to: 69.3m

Date surveyed: 10-10-77

Surveyed by : L. Denby

Checked by : G. Brown

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
28	061	033	5.25	-84.75	27.88	1.04	1.54
42	050.5	022.5	5.5	-84.5	41.82	2.28	2.05
69.3	049	021	6	-84	68.98	4.90	3.01

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 675/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 6.3	6.3	5.85	93
6.3 - 9.2	2.9	2.77	96
9.2 - 12.2	3.0	3.00	100
12.2 - 15.3	3.1	3.20	103
15.3 - 19.1	3.8	3.51	92
19.1 - 21.3	2.2	2.38	108
21.3 - 24.7	3.4	3.12	92
24.7 - 26.6	1.9	1.76	93
26.6 - 29.3	2.7	2.70	100
29.3 - 34.3	5.0	4.91	98
34.3 - 37.3	3.0	2.86	95
37.3 - 41.3	4.0	4.10	103
41.3 - 44.3	3.0	3.03	101
44.3 - 46.3	2.0	2.00	100
46.3 - 49.1	2.8	2.90	104
49.1 - 51.3	2.2	2.21	100
51.3 - 54.3	3.0	2.94	98
54.3 - 57.2	2.9	2.84	98
57.2 - 59.3	2.1	2.08	99
59.3 - 61.4	2.1	2.14	102
61.4 - 65.3	3.9	4.00	103
65.3 - 69.3	2.0	1.98	99
67.3 - 69.3	2.0	2.08	104
EOH			

D.C.

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 675/9

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 5356	5	6	1.0	0.9	0.77	0.04		
7	6	7	1.0	1.2	0.52	0.02		
BH 5358	38	39	1.0	1.0	<0.01	<0.01		
9	39	40	"	"	0.15	"		
60	40	41	"	"	0.05	"		
1	41	42	"	"	0.05	"		
2	42	43	"	"	0.24	0.01		
3	43	44	"	"	0.01	<0.01		
4	44	45	"	"	0.66	0.07		
5	45	46	"	"	0.34	0.04		
6	46	47	"	"	<0.01	<0.01		
7	47	48	"	"	"	"		
8	48	49	"	"	0.36	0.04		
9	49	50	"	"	0.60	0.02		
70	50	51	"	"	0.31	0.01	7m	
1	51	52	"	"	0.63	0.18	a)	
2	52	53	"	"	0.35	0.06	0.83%	WO_3
3	53	54	"	"	0.94	0.07		
BH 5374	54	55	"	"	2.63	0.16		
BH 5375	63	64	"	"	0.09	<0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 675/9

0 - 3.00 Marble

Fine grained, poorly - banded grey marble. Mineralized marble, containing sub-grade scheelite, occurs between:

0.48 - 1.00 m
2.35 - 3.00 m

The mineralization is associated with garnet and pyroxene - rich patches.

Bedding: 53^{o} LCA: 1.06m
47^{o} LCA: 2.42m

3.00 - 4.28 Pyroxene - Garnet Skarn

A coarse - grained pyroxene (mainly actinolite) skarn containing lesser garnet, pyrite is very abundant but scheelite is virtually absent.

4.28 - 6.88 Mineralized Marble

The marble in this region has been largely replaced by garnet, but a few barren patches remain. The garnet appears to be reddish - brown grossular.

Barren marble occurs between 6.42 - 6.62. Two regions of quartz - rich aplite occur between: 4.28 - 5.11 and 6.10 - 6.38.

Except for the above - mentioned patches of marble and aplite, the rest of the core carries probable ore - grade scheelite.

Bedding 48^{o} LCA: 5.53 m

6.88 - 17.09 Marble

A very poorly - banded to disturbed fine - grained greyish marble. Minor pyroxene - rich patches are common throughout.

Scheelite mineralization occurs between:

8.88 - 9.00m(sub - grade)
13.11 -13.16m(sub - grade)
16.68 -16.80m(probable ore grade and contained in a garnet - and pyroxene - rich patch which extends to the bph boundary).

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 675/9

Bedding:
58° LCA: 11.50m
65° LCA: 16.26m

Broken ground occurs between 13.48 - 13.70m and clay is also present. A calcite filled shear occurs between 10.95 - 11.20m

17.09 - 35.81 Biotite pyroxene hornfels

Fairly homogenous, weakly - banded bph.

Between 17.09 - 21.44: podded bph. This unit contains silica - rich pods up to 4 cm across (and also contains ore very large pod 14cm across).

Bedding 63° LCA: 21.80m
68° LCA: 26.92m
64° LCA: 29.00m
58° LCA: 30.44m
65° LCA: 31.48m
64° LCA: 32.37m

0.5cm diameter spots caused by biotite concentrations are common between: 34.21 - 35.00

An aplite dyke occurs between 23.24 - 23.56 and 25.68 - 26.08. No joint filling is present in either. Sparsely scattered sub - grade scheelite occurs between 35.18 - 35.68m.

35.81 - 38.86 Podded Pyroxene Hornfels.

This unit consists of coarse calcite pods (up to 3cm diam) set in a groundmass of fine - grained greenish pyroxene. Very weak, sub - grade scheelite mineralization occurs between 36.06 - 37.40. The core is sheared and broken between 37.03 - 37.30m.

38.86 - 46.17 Podded Pyroxene - Garnet Hornfels

Scheelite mineralization is very sparse throughout. 39.45 - 39.60 is in fact barren of scheelite. Probable ore - grade scheelite occurs between 39.95 - 40.02 and 42.76 - 42.95.

An aplite dyke occurs between 44.08 - 44.81. Overall, the horizon contains only 26cm of probable ore - grade scheelite.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 675/9

46.17 - 48.86 Biotite - Pyroxene hornfels

A homogenous unit of bph which becomes increasingly pyroxene - rich from 47.60 onwards.

48.86 - 63.17 Garnet Pyroxene Skarn

Four distinct rock - types have been grouped under this heading:

(1) Andradite skarn - a typical skarn containing one small interval of probable ore grade scheelite (48.86 - 49.31). The skarn occurs between 48.86 - 49.31, 50.93 - 51.23 (sub - grade scheelite), 59.78 - 60.97 (barren of scheelite) and 61.76 - 63.17 (barren of scheelite).

An aplite dyke occurs between 60.97 - 61.76.

(11) A quartz - rich skarn in which pyroxene is dominant over garnet. This type of skarn occurs between 51.23 - 52.00 (mostly barren molybdenum at 51.40m) and 52.38 - 54.30 (contains sub - grade scheelite between 53.54 - 54.30).

(111) A grossular rich rock, which occurs between 49.31 - 50.71 and contains sub - grade scheelite.

(1V) A pyroxene - rich rock with minor andradite, which contains abundant coarse felspar. This is the dominant rock type and occurs between 50.71 - 50.93 (barren of scheelite), 54.30 - 52.38 (sub - grade scheelite between 54.30 - 54.90).

Overall the horizon contains only 45 cm of probable ore grade scheelite.

63.17 - 64.04 Pyroxene Hornfels

A narrow unit of ph containing sub - grade scheelite between 63.21 - 63.46.

64.04 - 69.30 EOH Adamellite

Typical Bold Head Adamellite with large pink K - felspar laths.

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 675/9 ADDITIONAL ASSAYS

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
8795	55	56	1.0	1.0	0.12			
96	56	57	1.0	1.0	0.19			
97	57	58	1.0	1.0	0.12			
98	58	59	1.0	1.0	0.17			
99	59	60	1.0	1.0	0.10			
8800	60	61	1.0	1.0	0.09			
01	61	62	1.0	1.0	0.10			
02	62	63	1.0	1.0	0.08			

SPECIFIC GRAVITY

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

Determined by:

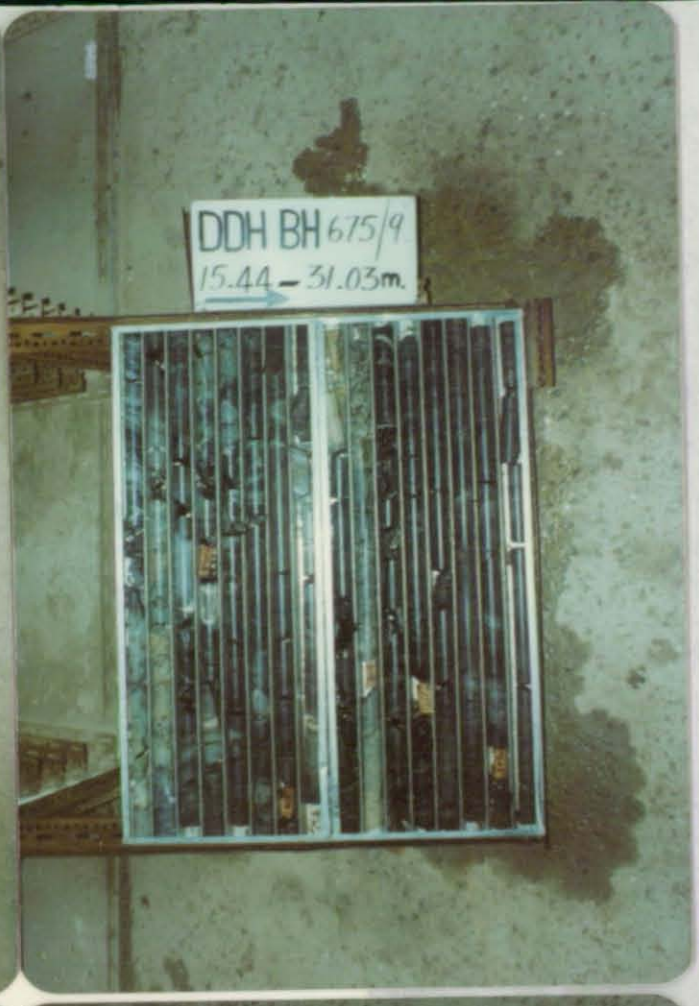
GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 675/9

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	
5369	0.60		5647	0.53		5648	0.69		5649	0.66		B 675/9
5373	0.94		5671	0.71		5672	1.10		5673	0.93		"


DDH BH 675/9
00.00 – 15.44 m.


DDH BH 675/9
15.44 – 31.03m.


DDH BH 675/9
31.03 – 46.14 m.


DDH BH 675/9
46.14 – 60.94 m.


DDH BH 675/9
60.94 – 69.30 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 675/8

PLANNING

Proposer: S. g. Brown — Depth: 60

Location: M63 Drive

Purpose of hole: To test C_1 C_2 & D lenses west

Co-ordinates:	40350.0	E	10675.0	N
Inclination:	-83			Magnetic:
Bearing	270°	Grid		Target Depth:
Target:		E		N
Approved by:	M.C.R.			Date: 22-9-77

SURVEY

Survey Co-ords:		E		N
Survey bearing:	284° 18'	Grid		Magnetic:
Surveyed in by:				Date:
Actual Co-ords:	40 346.99	E	10 676.18	N
R.L. of Collar:	1010.34			Inclination of Hole: -79° 07'
Picked up by:	A. Grigulis			Date: 14-10-77

SUMMARY

Logged by: D. Cowan

Results: 0-4 m 4 m @ 0.82% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 28-9-77 — Date terminated: 30-9-77

Casing:	Size:		BX TT	
	Depth:		0.5 m	
Core:	Size:	46 TT		
	Depth:	13.50		

Wedge Runoff:

Wedge placed: Nil — Depth:

Proposed by: — Approved by:

Reason:

Extension: Nil

Reason for termination: Hole abandoned in western Fault Zone

Condition of hole on completion: left — Final depth: 13.50

Casing: left

Cemented: No

Bore hole survey: No

Water: None

Comments on drilling conditions: Bad in western Fault Zone.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 675/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.5	3.5	3.36	
3.5 - 6.5	3.0	3.10	
6.5 - 9.5	3.0	1.60	
9.5 - 12.5 EOH	3.0	1.51	

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 675/8

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 5351	0	1	1.0	1.0	0.73	0.01		
2	1	2	"	"	0.77	0.03	4 m	
3	2	3	"	"	1.48	0.05	@	
4	3	4	"	"	0.29	0.01	0.82%	WO_3
BH 5355	4	5	"	"	<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 675/8

0 - 2.06 Garnet Pyroxene Skarn

This contains probable ore - grade scheelite over its whole length.

2.06 - 6.62 Marble

Fairly well - banded, fine - grained, greyish marble. Contains scheelite mineralization (no - ore - grade) between:

2.06 - 3.23 m
3.73 - 4.00
5.21 - 5.36

In every case the scheelite is associated with irregular garnet - pyroxene rich patches in marble.

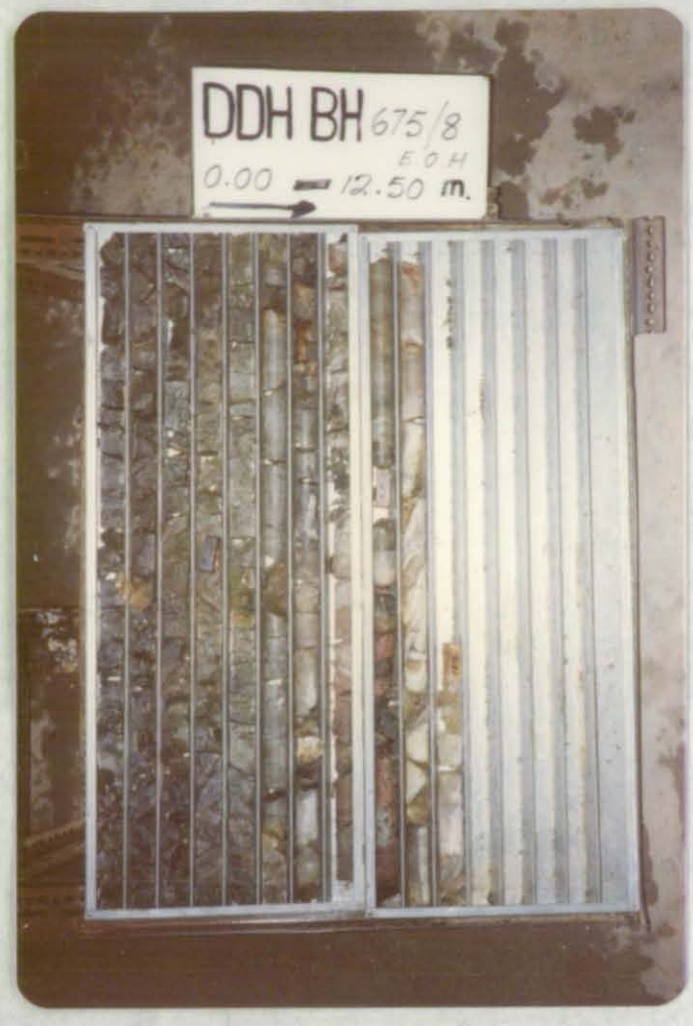
Bedding
74° LCA at 3.50 m
60° LCA at 4.08 m
78° LCA at 5.16 m
71° LCA at 5.44 m

6.62 - 9.41 Aplite

Core recovery was very poor over this interval and a major fault zone is suspected.

9.41 - 12.50 EOH Marble

A very coarse - grained fawn - coloured recrystallized marble. It contains minor scheelite mineralization (non ore - grade) between 9.50 - 9.70 m.
Core recovery was also very poor over this interval and a fault zone continuous with the one in the aplite is suspected.


DDH BH 675/8
E.O.H
0.00 — 12.50 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 675/7

PLANNING

Proposer: S.G. Brown — Depth: 17m

Location: N. 52 drive.

Purpose of hole: To test the extent of the Boundary ore above P 62 drive.

Co-ordinates: 10388.8 E 10675 N — N

Inclination: +26° — Magnetic:

Bearing 090 Grid — Target Depth:

Target: E — N

Approved by: M.C. Rogers — Date: 13/6/76

SURVEY

Survey Co-ords: E — N

Survey bearing: 91°12' Grid — Magnetic:

Surveyed in by: — Date:

Actual Co-ords: 10 388.41 E 10 675.15 — N

R.L. of Collar: 1026.43 — Inclination of Hole: +25°36'

Picked up by: J. Cook — Date: 1/7/76

SUMMARY

Logged by: S.G. Brown

Results: 13 - 15m 2m @ 0.92% WO_3

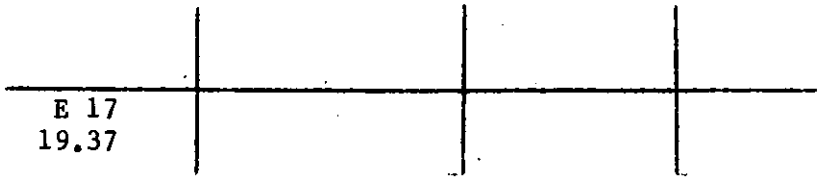
DRILLING

Driller/Contractor: Geopeko

Date commenced: 23/6/76 — Date terminated: 25/6/76

Casing: Size:
Depth:

Core: Size:
Depth:



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: 19.37
Casing: Nil
Cemented: No

Bore hole survey: Acid tube

Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. B 675/7

Survey Depth : 4.0
Final depth : 19.37
Casing depth : -

Depth surveyed to : 4.0
Date surveyed : 1/7/76
Surveyed by : V.P.
Checked by : G.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
4.0m	-	-	+32°	+ 26°			

REMARKS:

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. B 675/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.50	2.50	2.40	96%
2.50 - 3.94	1.44	1.44	100%
3.94 - 5.87	1.93	1.98	102.6%
5.87 - 7.08	1.21	1.17	96.7%
7.08 - 7.20	0.12	0.15	125.0%
7.20 - 9.42	2.22	2.23	100.5%
9.42 - 11.33	1.91	1.93	101.0%
11.33 - 13.31	1.98	1.94	98.0%
13.31 - 15.32	2.01	1.97	98.0%
15.32 - 17.36	2.04	2.02	99.0%
17.26 - 19.37	2.01	1.99	99%
19.37 E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. 675/7

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
BH 3305	13.0	14.0	1.0	1.0	<0.01	<0.01		
3306	14.0	15.0	1.0	1.0	0.74	<0.01	14.0 - 15.0m Boundary ore.	2m @ 0.92% WO_3
3307	15.0	16.0	1.0	1.0	1.10	0.01		
3308	16.0	17.0	1.0	1.0	0.04	<0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No.B 675/7

0.0 - 13.55m BIOTITE PYROXENE HORNFELS

This is essentially a bedded unit of fine grained brown/purple coloured biotite hornfels with irregular amounts of pyroxene present as bands in some areas.

Between 2.10 - 4.46 the pyroxene hornfels is dominant and quite large amounts of pyrite are present in the core. From about 8.0 to 13.55m the core contains quite large amounts of pyrrhotite which sometimes occurs either as rims to, or completely replacing, angular fragments.

162 Fault is present at 5.87m.
bedding is at 24° LCA at 1.0m
24° LCA at 3.90m
36° LCA at 7.90m

13.55 - 16.50 PYROXENE GARNET HOENFELS

This is a disturbed unit initially pyroxene rich but becoming garnet rich below 14.2m.
Good grade scheelite mineralisation is present between 14.23 - 16.23m.

16.50 - 17.35 DISTURBED BIOTITE PYROXENE HORNFELS

This is typical of the biotite pyroxene unit adjacent to the Boundary Fault, being disturbed and podded with large siliceous fragments present in it.

17.35 - 19.37 QUARTZITES

A light grey to dark grey sequence of quartzites and shales. These contain quite large amounts of pyrite.

19.37m E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. OBH 675/7

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 3305	<0.01		BH 1754	<0.01		BH 1755	0.12		BH 1756	0.0025		


DDH BH 675/7
0.0 - 19.37 m.
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B675/6

PLANNING

Proposer: S.G. Brown — Depth: 30m

Location: N 52 drive

Purpose of hole: To test the Boundary orebody.

Co-ordinates: 10386 E 10675 N
Inclination: +62°
Bearing 090° Grid — Magnetic:
Target: — Target Depth:
E — N
Approved by: M.C. Rogers — Date: 25/5/76

SURVEY

Survey Co-ords: 10 387.28 E 10 674.83 N
Survey bearing: 94°46' Grid — Magnetic:
Surveyed in by: — Date:
Actual Co-ords: 10 387.28 E 10 674.83 N
R.L. of Collar: 1027.69 — Inclination of Hole: +61°41'
Picked up by: J. Cook — Date: 1-7-76

SUMMARY

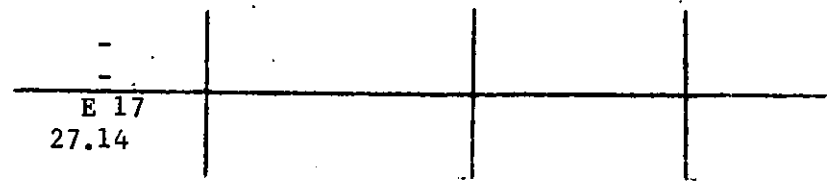
Logged by: R. van den Bogaart
Results: No mineralisation encountered.

DRILLING

Driller/Contractor: Geopeko

Date commenced: 21/6/76 — Date terminated: 23/6/76

Casing: Size: -
Depth: -
Core: Size: E 17
Depth: 27.14



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

Extension: Nil
Reason for termination: Drill hole encountered aplite.

Condition of hole on completion: — Final depth: 27.14
Casing: Nil
Cemented: No
Bore hole survey: Yes acid tube
Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. B 675/6

Survey ~~Depth~~ Depth : 4.0m
Final depth : 27.14
Casing depth : Nil

Depth surveyed to : 4.0m
Date surveyed : 1/7/76
Surveyed by : V.P.
Checked by : G.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
4.0	-	-	+68°	+62° 15'			

REMARKS:

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. B 675/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 0.98	0.98	0.97	99
2.40	1.42	1.39	98
3.81	1.41	1.45	102
5.70	1.89	1.89	100
7.67	1.97	1.98	100
9.63	1.96	1.91	97
10.95	1.34	1.33	99
13.22	2.27	2.23	98
15.10	1.88	1.95	103
16.22	1.12	1.05	94
19.00	2.78	2.79	100
21.36	2.36	2.30	97
22.90	1.54	1.48	96
24.11	1.21	1.30	107
25.00	0.89	0.86	97
25.70	0.70	0.63	90
25.79	0.09	0.10	111
26.43	0.64	0.58	91
26.60	0.17	0.26	152
27.14	0.54	0.56	104
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 675/6

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
	NO CORE ASSAYED							

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 675/6

0.00 - 23.52 MIDDLE VOLCANICS

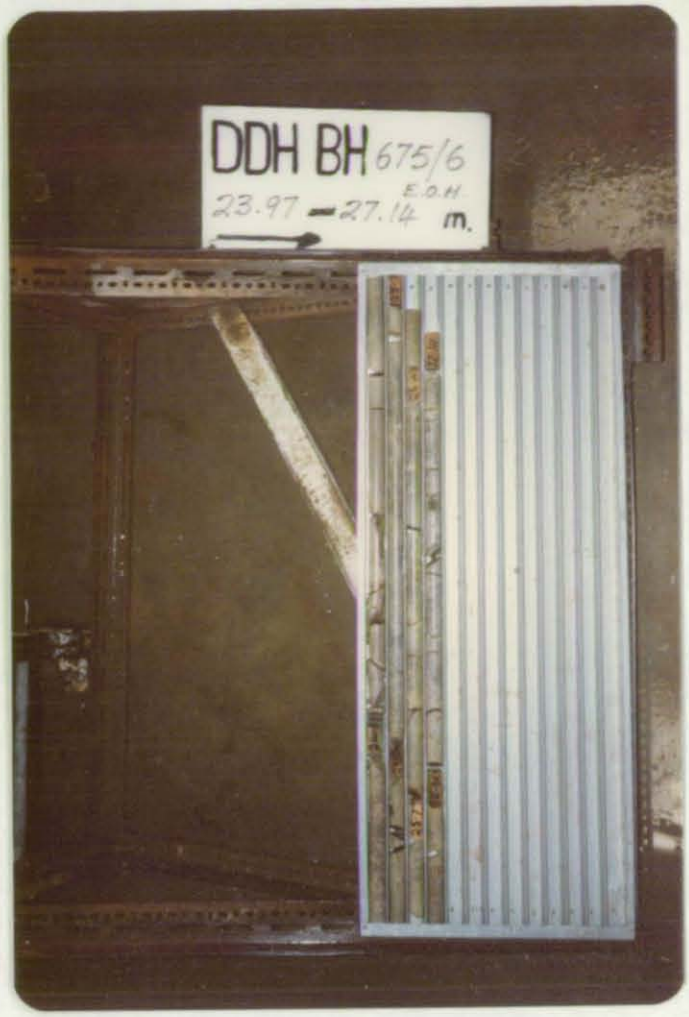
A fine to medium grained purple - brown middle volcanics with an irregular distribution of feldspar laths (minor) and chlorite spats. Some pyroxene rich bands occur within the unit. Pyrite and pyrrhotite occur in thin veinlets and as fine grains disseminated in the groundmass. Pyrite and calcite occur in joints and along small irregular fractures. Aplite occurs between 11.65 - 11.79 and 22.96 - 23.16. I 62 fault occurs between 10.83 - 10.91. The fault plane contains dinohumite.

23.52 - 27.14 APLITE

A fine to medium grained grey - white aplite. The unit contains a biotite rich band between 25.00 - 25.18. The unit is devoid of any scheelite mineralisation.

27.14 E.O.H.


DDH BH 675/6
0.00 – 23.97 m.


DDH BH 675/6
23.97 – 27.14 m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: BH 675/5

PLANNING

Proposer: S.G. Brown — Depth: 8m

Location: P62 fault orebody stope.

Purpose of hole: To test mineralization in wall of stope.

Co-ordinates: 10394 E 10677 N

Inclination: Horizontal (+2°) — Target depth:

Bearing: approx. 230° °Grid — °Magnetic

Target: E N

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

SURVEY

Survey Co-ords: E N

Survey bearing: 205°08° Grid — °Magnetic

Surveyed in by: — Date:

Actual Co-ords: 10394.7 E 10676.1 N

R.L. of collar: 1004.55 — Inclination of hole: 0°26'

Picked up by: R.J.H. — Date: 4/4/75

SUMMARY

Logged by: S.G. Brown.

Results: 0 - 6m,
6m @ 0.84% WO_3
0.03% Mo.

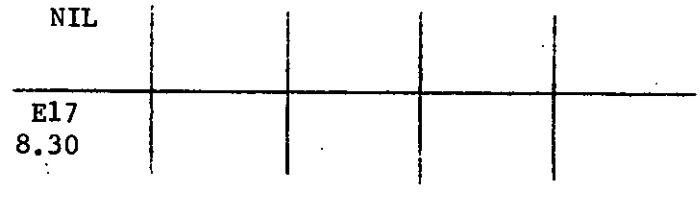
DRILLING

Driller / Contractor: Geopeko

Date commenced: 1/4/75 — Date terminated: 2/4/75

Casing: Size : NIL
Depth:

Core: Size : E17
Depth: 8.30



Wedge Runoff:

Wedge placed: NIL — Depth:

Proposed by: — Approved by:

Reason:

Extension: NIL — Final depth: 8.30m.

Reason for termination: Hole passed into weakly mineralized marble.

Condition of hole on completion: NIL

Casing : No.

Cemented: No.

Bore hole survey:

Water:

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 675/5

Depth Interval (metres)	Rock Type	Fract-ures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 8.30	g skarn/ch	8		carbonate @ 6.10 7.12 8.00 chlorite @ 5.15.		98	77	3.09 - 3.28: core is brecciated and carbonate recemented. (Fault?)

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length } \sout{\text{recovered}} \text{ drilled}}$ %
3. Core size. 0 - 8.30 E17.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 675/5

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 1.23	1.23	1.08	88
2.40	1.17	1.20	103
5.30	2.90	2.88	99
8.30	3.00	2.98	99

GEOPEKO LIMITED - Bold Head Mine

ASSAY DATA

D.D.H. No. BH 675/5

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
D0969	0	1	1.0	1.0	0.39	0.01				0 - 6m,
70	1	2	"	"	0.45	0.01				6m @
1	2	3	"	"	0.68	0.02				0.84% WO_3
2	3	4	"	"	1.01	0.03				0.03% Mo
3	4	5	"	"	1.60	0.06				
D0974	5	6	"	"	0.90	0.02				

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 675/5

LAB.	K.I.S.		LAB.	K.I.S.		LAB.	A.M.D.E.L.		LAB.	A.C.S.L.		Repeat & check analysis.
Original Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo. WO_3	
D 0973	1.60	0.06	BH 1639	1.50	0.02	BH 1640	1.70		BH 1641	1.60	1.64	

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 675/5

0 - 5.85m	GARNET SKARN

A good garnet pyroxene skarn with high grade scheelite throughout. Some minor marble is present in this unit.
A fault is present at 2.8m.

5.85m - 8.30m	MARBLE

A mineralized grey green marble. The mineralization is low and restricted to the minor garnet rich areas.

E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 675/5

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			repeat and check analysis
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	~~Mo~~ WO_3	
D 0973	1.60	0.06	BH 1639	1.50	0.02	BH 1640	1.70		BH 1641	1.60	1.64	


DDH BH 675/5
0.00 - 8.30 m.
F.o.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 675/4

PLANNING

Proposer: S.G. Brown. Depth: 25m.

Location: N52 drill drive at 10675 N.

Purpose of hole: To test 'B' lens main.

Co-ordinates: 10385 E 10675 N

Inclination: -90° Magnetic

Bearing: Grid Target depth: 18.16m

Target: E N

Approved by: M.C. Rogers. Date:

SURVEY

Survey Co-ords: Not surveyed, in floor. E N

Survey bearing: Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: approx. 10388 E 10675 N

R.L. of collar: approx. 1023.0m. Inclination of hole:

Picked up by : Date:

SUMMARY

Logged by : S.G. Brown.

Results: 1 - 6m 5m @ 1.32% WO_3
0.09% Mo.

DRILLING

Driller/Contractor: K.I.S.

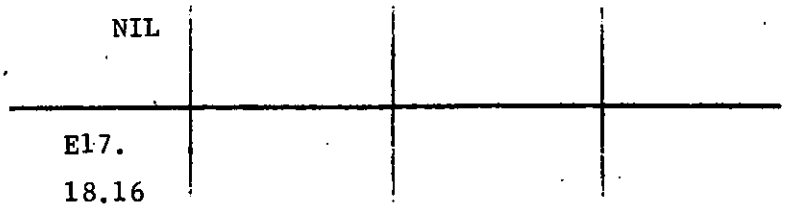
Date commenced: Date terminated:

Casing: Size : NIL

Depth :

Core: Size :

Depth : E17. 18.16



Wedge Runoff:

Wedge placed: NIL Depth:

Proposed by : Approved by:

Reason:

Extension: NIL

Reason for termination: passed through 'B' lens. Final depth: 18.16m.

Condition of hole on completion:

Casing : NIL

Cemented : No.

Bore hole survey: No.

Water: No.

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 675/4

Depth Interval (metres)	Rock Type	Fract-ures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 6.16	ph/ aplite/ pg skarn.	4		carbonate @ 1.50		100	87	
6.16 - 18.16m	ch/ mineral-alised ch	7		carbon-ate @ 10.90, 15.0; chlorite (?) @ 10.30m.	62m:67° 9.3m:68° 11.2m:61°	100	75	

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length recovered-drilled}}$ %
3. Core size. 0 - 18.16m E

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 675/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 1.10	1.10	1.08	98
1.90	0.80	0.82	103
3.16	1.26	1.25	99
6.16	3.00	3.04	101
9.16	3.00	3.04	101
12.11	2.95	2.95	100
15.16	3.05	3.05	100
18.16	3.00	3.04	101

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 675/4

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
D0963	1	2	1.0	1.0	0.38	<0.01				1 - 6m, 5m
4	2	3	"	"	0.77	0.01				
5	3	4	"	"	0.18	<0.01				@ 1.32% WO_3
6	4	5	"	"	3.25	0.32				0.09% Mo.
7	5	6	"	"	2.04	0.11				
D0968	6	7	"	"	0.11	<0.01				

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 675/4

LAB.	K.I.S.		LAB.	K.I.S.		LAB. A.M.D.E.L.			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	
D 0966	3.25	0.32	BH 1636	2.77	0.28	BH 1637	3.60		BH 1638	3.27		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 675/4

0 - 1.38m — PYROXENE HORNFELS

A fine grained pyroxene hornfels showing minor banding. This unit is unmineralized.
Banding is at 60° L.C.A. 1.2m

1.38m - 2.07m — APLITE DYKE

An aplite dyke which has reacted with the skarn rocks to absorb some scheelite into it. This unit is rather quarty rich.

2.07m - 6.16m — PYROXENE GARNET SKARN.

An irregular unit in which garnet is dominant in the lower half while pyroxene is present in the upper part. Good scheelite and molybdenite are visible at about the 5m mark.

6.16m - 11.58m — MARBLE

A fine grained finely banded marble containing only very minor amounts of garnet and pyroxene. Trace scheelite is present in the garnet rich areas.

Banding at 6.2m approx. 67° L.C.A.
at 9.3m " 68° "
at 11.2m " 61° "

11.58m - 18.16m — MINERALIZED MARBLE

A banded grey marble as above but with about 50% of the unit being disturbed pyroxene garnet calcite zones. Minor scheelite is present throughout in the calcite zones. All sub-grade.

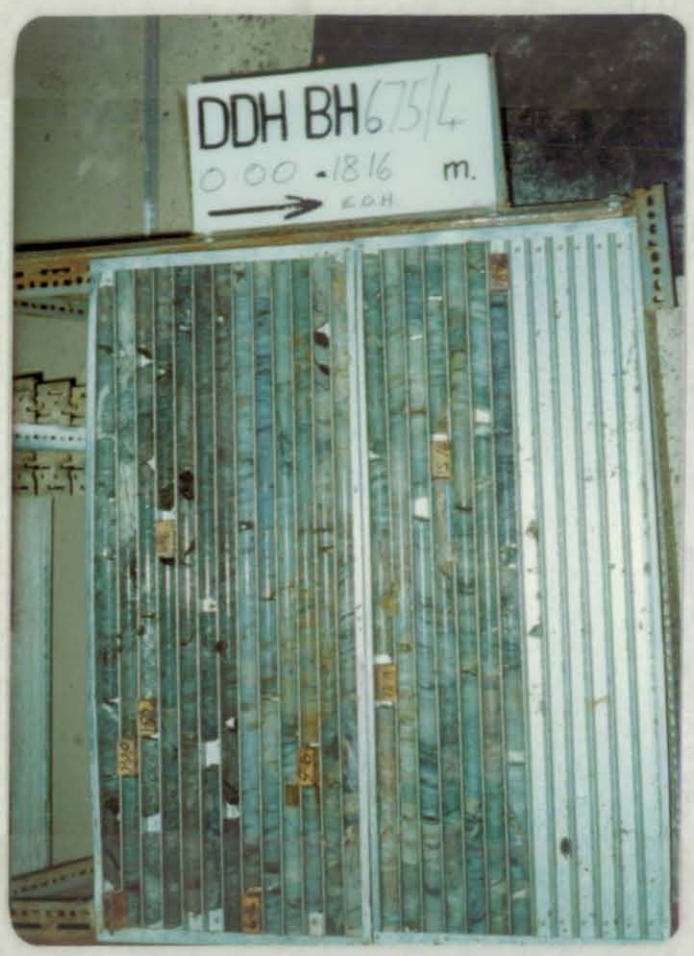
18.16m E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 675/4

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	
D 0966	3.25	0.32	BH 1636	2.77	0.28	BH 1637	3.60		BH 1638	3.27		


DDH BH675/4
000 - 1816 m.
EOH

GEOPEKO LIMITED :- KING ISLAND

LOG OF D.D.H. No. BH 675/3

PLANNING

Proposer: S.G. Brown. Depth: 31m.

Location: 10675N on N52 drive.

Purpose of hole: To test fault block orebody.

Co-ordinates: 10388 E 10675 N

Inclination: -35° Magnetic

Bearing: 090° Grid Target depth:

Target: E N

Approved by: Date:

SURVEY

Survey Co-ords: E N

Survey bearing: Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 10388.79 E 10675.07 N

R.L. of collar: 1023.10 Inclination of hole:

Picked up by : J. Cook. Date: 11/4/75

SUMMARY

Logged by :

Results:

DRILLING

Driller/Contractor:

Date commenced: Date terminated:

Casing: Size :

Depth :

Core: Size :

Depth :

Wedge Runoff:

Wedge placed: — Depth: —

Proposed by : — Approved by: —

Reason: —

Extension: —

Reason for termination: entered quartzites Final depth: 22.48

Condition of hole on completion:

Casing : NIL

Cemented : No

Bore hole survey: No

Water: No

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 675/3

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 9.45	pgh/ aplite/ bph/gh	7		minor carbonate @ 5.08 minor pyrite @ 8.90.		100	71	
9.45 - 19.42	gh/ch/ gp skarn/ bh	7		good carbonate @ 14.57 minor chlorite & pyrite @ 11.63.	14m:35°	100	73	Core is weakly leached. 13.83 - 14.57
19.42 - 22.48	bh/q			chlorite @ 19.90, minor pyrite & carbonate elsewhere.		100	18	Generally poor ground. Boundary fault @ 20.28m.

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length ~~recovered~~ drilled.}}$ %
3. Core size. 0 - 22.48 E (22mm diameter).

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 675/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 0.32	0.32	0.30	94
0.63	0.31	0.29	94
0.78	0.15	0.12	80
2.31	1.53	1.55	101
3.72	1.41	1.46	103
4.40	0.68	0.67	99
6.57	2.17	2.15	99
9.45	2.88	2.92	101
12.40	2.95	2.95	100
13.83	1.43	1.47	103
16.83	3.00	3.04	101
19.42	2.59	2.62	101
20.73	1.31	1.34	102
22.48	1.75	1.78	102

GEOPEKO LIMITED - Bold Head Mine

ASSAY DATA

D.D.H. No. BH 675/3

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
D0975	4	5	1.0	1.0	0.17	<0.01				
6	5	6	"	"	0.22	<0.01				
7	6	7	"	"	0.99	0.02				6 - 18m
8	7	8	"	"	1.01	0.03				12m @
9	8	9	"	"	2.35	0.08				1.53% WO_3
80	9	10	"	"	1.78	0.05				0.09% Mo.
1	10	11	"	"	0.49	0.03				
2	11	12	"	"	6.20	0.26				
3	12	13	"	"	2.49	0.27				
4	13	14	"	"	1.22	0.25				
5	14	15	"	"	0.12	<0.01				
6	15	16	"	"	0.14	<0.01				
7	16	17	"	"	0.77	0.02				
8	17	18	"	"	0.80	0.02				
D0989	18	19	"	"	0.17	<0.01				

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 675/3

LAB.	K.I.S.		LAB.	K.I.S.		LAB.	A.M.D.E.L.		LAB.	A.C.S.L.		
Original Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	
D 0979	2.35	0.08	BH 1630	2.07	0.05	BH 1631	2.50		BH 1632	2.45		
D 0989	0.17	< 0.01	BH 1633	0.14	< 0.01	BH 1634	0.25		BH 1635	0.19		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No.675/3

0 - 0.78m	PYROXENE GARNET HORNFELS A finely banded pyroxene garnet hornfels with some minor scheelite in the garnet rich bands. Bedding 38° L.C.A.
0.78 - 1.55m	APLITE A narrow quartz rich aplite dykes.
1.55 - 3.88m	BIOTITE PYROXENE HORNFELS A finely banded biotite pyroxene hornfels with minor garnet bands present in it. Banding at approximately 44° L.C.A.
3.88 - 13.61	GARNET SKARN Initially a banded pyroxene garnet skarn with moderate scheelite. From 4.7m it bacomes a regular garnet skarn containing high grade scheelite. ~~Very high grade scheelite.~~ Very high grade over the last couple of metres.
13.61 - 14.55	MARBLE A small unit of unreplaced marble showing good bedding at approximately 35° L.C.A.
14.55 - 19.03	GARNET PYROXENE SKARN As above a garnet pyroxene skarn with in this unit a larger amount of pyroxene and lesser scheelite.
19.03 - 20.28m	BIOTITE HORNFELS A very disturbed unit of biotite hornfels adjacent to the boundary fault.
20.28 - 22.48	QUARTZITES Typical grey quartzites with minor bands of siltstone present in it.
E.O.H.	

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 675/3

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	
D 0979	2.35	0.08	BH 1630	2.07	0.05	BH 1631	2.50		BH 1632	2.45		
D 0989	0.17	<0.01	BH 1633	0.14	<0.01	BH 1634	0.25		BH 1635	0.19		


DDH BH 675/3
0.00 - 21.38 m.


DDH BH 675/3
21.38 - 22.48 m.
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 675/2

PLANNING

Proposer: S.G. Brown — Depth: 24m

Location: N52 drill drive 10675N

Purpose of hole: To test fault orebody.

Co-ordinates: 10675N E 10388E N

Inclination: + 2°

Bearing: 090° Grid Magnetic

Target depth:

Target: E N

Approved by: M.C. Rogers. Date:

SURVEY

Survey Co-ords: E N

Survey bearing: Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 10388.79 E 10674.98 N

R.L. of collar: 1024.13 Inclination of hole: + 2°50'

Picked up by : J. Cook. Date: 11/4/75

SUMMARY

Logged by :

Results:

DRILLING

Driller/Contractor:

Date commenced: Date terminated:

Casing: Size :

Depth :

Core: Size :

Depth :

Wedge Runoff:

Wedge placed: Depth:

Proposed by : Approved by:

Reason:

Extension:

Reason for termination: Final depth: 24.40

Condition of hole on completion:

Casing :

Cemented :

Bore hole survey:

Water:

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 675/2

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 12.30	bph/ap/ ph/pgh /bph/ g skarn.	9		minor carbon- 0 - 6m, minor chlorite 6 - 12m.	5.6m:20° 7.0m:35° 8.87m:57°	100	49	6.32 - 6.37: core is brecciated and calcite recemented. (minor fault?)
12.30 - 24.40	ap/q	10		pyrite is general chlorite @ 14.75.		100	57	Boundary fault zone: 14.54 - 15.04

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length } \sout{\text{recovered}} \text{ drilled}}$ %
3. Core size. 0 - 24.40 E.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No.BH 675/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 0.27	0.27	0.22	81
0.45	0.18	0.16	89
0.70	0.25	0.29	116
0.95	0.25	0.22	88
1.19	0.24	0.26	108
2.65	1.46	1/43	98
4.15	1.50	1.48	99
5.60	1.45	1.53	106
6.61	1.01	1.01	100
9.19	2.58	2.74	106
12.30	3.11	3.07	99
15.40	3.10	3.04	98
18.40	3.00	3.05	102
21.40	3.00	3.02	101
24.40	3.00	2.93	98

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 675/2

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
D0915	7	8	1.0	1.0	0.14	0.04				
6	8	9	"	"	0.04	0.02				
7	9	10	"	"	0.03	0.02				
8	10	11	"	"	0.04	0.02				
9	11	12	"	"	2.70	0.23				11 - 14m,
20	12	13	"	"	0.29	0.03				3m @
D0921	13	14	"	"	0.26	0.03				1.08% WO_3 0.10% Mo.

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 675/2

LAB.	K.I.S.		LAB.	K.I.S.		LAB.	A.M.D.E.L.		LAB.	A.C.S.L.		
Original Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	
D 0919	2.70	0.23	BH 1627	2.20	0.04	BH 1628	2.80		BH 1629	2.78		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 675/2

0 - 2.48m. BIOTITE PYROXENE HORNFELS

A disturbed banded unit with some minor silicification present in the pyroxene rich areas.
The banding is almost parallel to L.C.A.

2.48m - 4.21m APLITE

A small, almost granitic, aplite dyke with quite large biotite books present in this unit.

4.21 - 7.24m PYROXENE HORNFELS

A fine grained light grey green pyroxene hornfels showing well developed bedding at about 20° L.C.A. at 5.60m.
By 7.0m the bedding is up to 35° L.C.A.

7.24 - 8.58 PYROXENE GARNET HORNFELS

Essentially a continuation of the above unit with garnet bands in the pyroxene hornfels.
Scheelite is present in the garnet bands in moderate amounts.
The bedding is much steeper, by 8.87m it is at 57° L.C.A.

8.58 - 10.65m BIOTITE PYROXENE HORNFELS

As above this is all part of a banded biotite pyroxene garnet hornfels with the large bands due to the angle of the bedding to the core.
Here the bedding is at about 12° L.C.A.

10.65 - 12.12 GARNET SKARN

A pyroxene garnet skarn with good scheelite content throughout.
This is not banded and appears to be the typical fault orebody hornfels.

12.12 - 14.54 APLITE

An extremely quartz rich white aplite dyke with large amounts of scheelite present in it. It is assumed that the aplite has cut through the garnet skarn and taken up the scheelite from this unit.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 675/2

14.54 - 17.67 QUARTZITE

A fine grained grey black quartzite with irregular units of siltstone through out, pyrite is present on the fractures and also reflecting bedding planes.

The first 50cm is the boundary fault zone.

17.67 -18.81 FAULT ZONE

Very disturbed and brecciated quartzites and siltstones with large amounts of calcite present both as fragments and filling.

18.81 - 24.40 QUARTZITES

As above.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 675/2

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	
D 0919	2.70	0.23	BH 1627	2.20	0.04	BH 1628	2.80		BH 1629	2.78		


DDH BH675/2
0·00 - 24·40 m.
E.O.H

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: B675/1 (Surface) (F30)

PLANNING

Proposer: S.G. Brown Depth: 110m

Location: 10 675N section Bold Head Mine.

Purpose of hole: To define 'B' lens adjacent to the Boundary Fault.

Co-ordinates: 10370 E 10675 N

Inclination: Vertical Target depth:

Bearing: °Grid °Magnetic

Target: E N

Approved by: Date:

SURVEY

Survey Co-ords: E N

Survey bearing: °Grid °Magnetic

Surveyed in by: Date:

Actual Co-ords: 10 369.73 E 10.675.46N

R.L. of collar: 1115.06 Inclination of hole: Vertical

Picked up by: J. Cook Date: 29.1.75

SUMMARY

Logged by: S.G. Brown

Results: 99m - 105m 6m at 0.93% WO_3
and 0.07% Mo

DRILLING

Driller / Contractor:

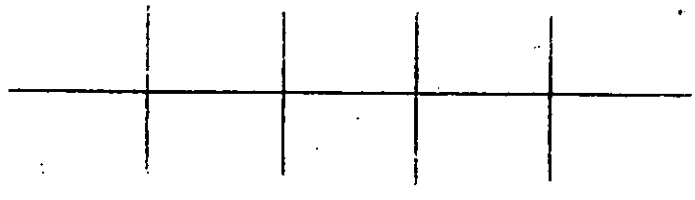
Date commenced: Date terminated:

Casing: Size :

Depth:

Core: Size :

Depth:



Wedge Runoff:

Wedge placed: NIL Depth:

Proposed by: Approved by:

Reason:

Extension: NIL Final depth: 119.07m

Reason for termination:

Condition of hole on completion:

Casing :

Cemented:

Bore hole survey: Surveyed to 97.54m

Water:

Comments on drilling conditions:

GEOPEKO LIMITED - BOLD HEAD MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO.BH 675/1

Survey method : Multishot camera
Final depth : 119.05m
Casing depth : 21.34m

Depth surveyed to : 97.54
Date surveyed : 9/12/74
Surveyed by : V. Powell.
Checked by : G.L. Buckland.

DEPTH	Bearing		Inclination		True Vertical depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		[illegible]S	[illegible]E
24.38	149°	123°	3°07'	-86°53'	24.34	0.72	1.16
30.48	151°30'	125°30'	3°	-87°	30.43	0.91	1.38
42.67	151°	125°	3°15'	-86°45'	42.60	1.31	1.95
60.96	153°	127°	2°15'	-87°45'	48.69	1.45	2.14
73.15	194°	168°	1°15'	-89°45'	73.06	2.07	2.49
91.44	180°	154°	0°45'	-89°15'	91.35	2.39	2.62
97.54	210°	184°	1°	-89°	97.44	2.50	2.61

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH675/1

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 15.60						81		h=4 w=4
15.60 - 17.00						87		h=3 w=3
17.00 - 18.29		7		clay		78	80	1=2 w=2
18.29 - 21.34		6		chlorite @ 20.26		104	84	h=1 w=1
21.34 - 35.23		8		chlorite, clino-humite @ 23.95, minor carbonate.		101	74	Core is leached at 26.50 and 34.0. Broken core: 25.46 - 27.40
35.23 - 55.51		6		silica, some carbonate, minor suphides, @ 36.53 clinohumite @ 38.60.		95	95	Fault zone: @ 40.15. (clinohumite and calcite filled). Broken core: 52.23 - 52.40.

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designator). = $\frac{\text{length core} > 10 \text{ cms}}{\text{length drilled}}$ %
3. Core size. 0 - 21.34m HQ
   21.34 - 119.05m NQ

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH675/1

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.	% Core Recovery	R.Q.D.	Remarks (weathering)
55.51 - 75.19		5		minor carbonate, clay (?) is general.		101	82	
75.19 - 98.46		3		chlorite @ 93.24 carbonate @ 86.80		100	95	Excellent quality core. (minor broken core: 94.71 - 95.00)
98.46 - 119.05		3		chlorite @ 99.00, 100.15, 103.44. carbonate @ 114.20.		99 96	96	Excellent quality core.

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No.BH675/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 5.18	5.18	3.73	72
6.40	1.22	0.80	66
7.92	1.52	1.56	103
9.75	1.83	1.72	94
11.17	1.42	1.01	71
11.89	0.72	0.75	104
14.0 14.02	2.13	1.59	75
15.54	1.52	1.50	99
17.22	1.68	1.52	90
18.29	1.07	1.00	93
19.81	1.52	1.73	114
21.34	1.53	1.43	93
24.46	3.12	3.18	102
27.43	2.97	3.00	101
30.56	3.13	3.10	99
33.68	3.12	3.10	99
37.19	3.51	3.48	99
40.23	3.04	2.98	98
43.28	3.05	3.07	101
46.33	3.05	2.97	97
48.46	2.13	1.87	88
49.68	1.22	1.44	118
52.73	3.05	3.02	99
55.47	2.74	2.81	103
58.60	3.13	3.03	97
61.65	3.05	3.09	101
64.69	3.04	3.10	102
67.74	3.05	3.05	100
70.71	3.03	3.07	101
73.76	3.05	3.05	100
76.81	3.05	3.04	100
79.86	3.05	2.93	96
82.75	2.89	3.05	106
85.88	3.13	3.11	99
89.00	3.12	3.12	100
92.05	3.05	2.99	98
95.10	3.05	3.02	99
97.54	2.44	2.57	105
100.66	3.12	3.04	97
103.71	3.05	3.19	106
106.76	3.05	2.95	97
109.91	3.15	3.05	97
112.95	3.04	3.04	100
116.00	3.05	3.02	99
119.05	3.05	3.02	99

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No.BH 675/1

SAMPLE No.	DEPTH (METRES)				ELEMENTS						COMMENTS
	From	To	Length	Length recovered	WO_3	Mo					
D0421	98	99	1.0	1.0	0.28	0.03					
2	99	100	"	"	2.27	0.13					0.84% WO_3
3	100	101	"	"	1.14	0.08					0.07% Mo
4	101	102	"	"	0.34	0.05					
5	102	103	"	"	1.06	0.09					
6	103	104	"	"	0.49	0.05					
7	104	105	"	"	0.30	0.04					
D0428	105	106	"	"	0.08	0.02					
D0431	106	107	"	"	0.02	0.02					
2	107	108	"	"	0.02	0.02					
3	108	109	"	"	0.13	0.03					
4	109	110	"	"	0.02	0.02					
5	110	111	"	"	0.04	0.02					
D0436	111	112	"	"	0.03	0.02					

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - BOLD HEAD

GEOLOGICAL LOG

D.D.H. NO. B675/1

0 - 14.30m SOIL AND CLAY

Dominantly orange/brown clay with minor areas of very weathered kaolinzed quartzites.

14.30 - 25.46 BIOTITE HORNFELS

A fragmental, disturbed light grey brown biotite hornfels. The fragments tend to be brown grey in colour while the groundmass is lighter grey in colour. These fragments are usually elongate and could well be flow sheared.

25.46 - 27.40 SILICIFIED ZONE

A zone of light grey silicified quartzite with an open quartz lined vug occuring at 26.50m. dip & 30^{o} L.C.A.

The whole core in this area is quite broken.

27.40 - 29.85 BIOTITE HORNFELS

As above, except that the fragment distribuation is more regular and less elongate in appearance.

29.85 - 34.05 APLITE

A medium grained aplite some areas of which appear almost granodioritic.

34.05 - 35.23 BIOTITE HORNFELS

A brown purple normal biotite quartz hornfels with very minor irregular patches of pyroxene present in it.

35.23 - 41.36 LOWER VOLCANICS

A biotite rich unit with irregular development of fine grey white feldspar laths which give it a spotted appearance. Quite large amounts of pyrite is present here mainly as disseminated spots but also as fine veinlets. from 40.03 - 40.13. There is a minor fault zone infilled with calcite and clinohumite at 41^{o} L.C.A.

GEOPEKO LIMITED - BOLD HEAD MINE

GEOLOGICAL LOG

D.D.H. No.B675/1

41.36 - 55.51m BIOTITE HORNFELS

A fine grained black purple biotite quartz hornfels as above. Here some areas have minor spotting present in them due to round clots of altered clay similar to that seen in the siltstones.

At 48.61m there is a minor fault zone at approx. 20° L.C.A.

A series of joints with calcite occur at about 52.0m and dip 31° L.C.A.

A very minor aplite vein occurs at 52.73m.

A pod of quartz occurs at 54.55m.

55.51 - 56.35 BIOTITE PYROXENE HORNFELS

A mixture of biotite and pyroxene hornfels with irregular and gradational contours between these units.

56.35 - 57.35 MARBLE

A spotted grey recrystalized limestone. The contacts of this unit consists of very narrow zones of pyroxene hornfels with minor garnet.

57.35 - 71.20 BIOTITE HORNFELS

This unit is a lighter colour than normal biotite hornfels and has a much more spotted appearance due to these clay spots which are probably recrystalized. Quite a large number of fine aplite veins occur in this unit and irregular pyroxene rich patches appear from about 66m.

The largest aplite is about 30cm wide and occurs at 64.5m.

71.20 - 75.19 APLITE

This unit is a fine grained aplite at both contacts but the majority of the unit is coarsely grained adamellite as in the P.23 drive and is probably the same aplite.

GEOPEKO LIMITED - BOLD HEAD MINE

GEOLOGICAL LOG

D.D.H. No.B675/1

75.19 - 93.96m MIDDLE VOLCANICS

A fine grained black biotite rich rock with good development of small feldspar laths present throughout.

93.96 - 96.87 APLITE

As above.

96.87 - 98.46 BANDED PYROXENE HORNFELS

A finely banded unit of light green grey pyroxene hornfels with minor biotite bands present throughout.

The amount of biotite increases towards 98m after which the unit is mainly biotite.

98.46 - 105.49 BANDED PYROXENE GARNET SKARN

This unit contains varying amounts of marble bands and although some areas are a bit disturbed the overall appearance of the unit is banded.

The mineralization is sporadic and confined to the granet bands but some high grade areas are present.

105.49 - 112.86 BANDED MARBLE

The dominant bands in this unit are marble with lesser thin bands of grossular and pyroxene rich material. The marble is grey in colour with fine dark bands present through out.

Minor mineralization is present in the garnet bands.
Bedding is 62^{o} L.C.A. at 107m.
68^{o} " " 110m
72^{o} " " 112m
The lowest portion of this unit shows some signs of disturbance.

112.86 - 119.05 DISTURBED MARBLE

A dark grey brown recrystalized marble with some bedding still visible in various places. The whole unit is shot through with calcite veins and in some areas the disturbed bedding gives it a slightly podded appearance.
Trace scheelite is present in some areas.
Bedding 59^{o} L.C.A. at 116.5m
59^{o} " " 117.2m.

E.O.H. 119.05 metres.

GECPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. XX B 675/1

LAB.	K.I.S.		LAB.	KIS 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	
D 0425	1.06	0.09	BH 3430	0.55		BH 3431	0.97		BH 3432	0.70		
D 0435	0.04	0.02	BH 3433	0.01		BH 3434	0.070		BH 3435	0.066		


DDH BH 675/1
76·81 - 95·95 m.


DDH BH 675/1
95·95 - 112·95 m.


DDH BH 675/1
112·95 - 119·05 m.
EOH


DDH BH 675/1
21.96 - 39.73 m


DDH BH 675/1
39.73 - 57.86 m.


DDH BH 675/1
57.86 - 76.81 m.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 665/2

PLANNING

PROPOSER: T. Potter DEPTH: 20 m

LOCATION: A Lens Outcrop

PURPOSE OF HOLE: Structure and Grade

PROPOSED CO-ORDS: 40353 E 10663 N

INCLINATION: -75°

BEARING: 090 °Grid °Mag

TARGET: E N

DEPTH:

CHECKED BY: DATE:

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: °Grid °Mag

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40352.05 E 10660.78 N

R.L. OF COLLAR: 1116.37

INCLINATION OF HOLE:

PICKED UP BY: B. Lennon DATE: 7/8/80

SUMMARY

LOGGED BY:

RESULTS:

DRILLING

DATE COMMENCED: DATE TERMINATED:

DRILLER/CONTRACTOR: Geopeko - Jacro Drill

CASING: SIZE:
DEPTH:

		Auger	Diam.
CORE:	SIZE:		
	DEPTH:	13.5 m	23.1

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 23.1 m

REASON FOR TERMINATION:

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 665/2

Auger SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
KF 374	0	1,5	1,5		0,10			
375	1,5	3	"		0,10			
376	3	4,5	"		0,13			
377	4,5	6	"		0,03			
378	6	7,5	"		0,09			
379	7,5	9	"		0,07			
380	9	10,5	"		0,07			
381	10,5	12	"		0,03			
382	12	13,5	"		0,06			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 665/2

Auger Drilling 0.0 - 13.5 m
Diamond drilling 13.5 - 23.1 m

0.0 - 1.5 m	Orange - brown clay with no grit
1.5 - 3.0	" " " " " "
3.0 - 4.5	" " " " " "
4.5 - 6.0	" " " " " "
6.0 - 7.5	" " " " " "
7.5 - 9.0	Dark orange - brown clay with some grit
9.0 - 10.5	" " " " " " "
10.5 - 12.0	" " " " " " "
12.0 - 13.5	" " " " " " "
13.5 - 14.2	No core
14.2 - 14.33	Clay
14.33 - 23.1	Volcanics - dark green fresh rock no scheelite present. 14.33 - 17.2 m dark purple biotite showing schistose structure. with "ovoids" of green chlorite - felspar? Schistosity 55° to core axis. 17.1 - 18.2 contains blobs of biotite in green ground mass - maybe siliceous. 18.2 - 19.2 contains two zones of schistose biotite at 50° to core axis 19.2 - 23.1 dark grey volcanics


DDH BH 665/2
E·O·H
14·2 – 23·1 m.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. N B 665/1

LAB.	K.I.S.		LAB. KIS 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 1955	0.62	0.01	BH 3424	0.68		BH 3425	0.76		BH 3426	0.61		

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. B 665/1

PLANNING

Proposer: S.G. Brown — Depth:

Location: L65 drive

Purpose of hole: To test location of ore west of the Western Fault.

Co-ordinates: 10341 E — E — 10667 N — N

Inclination: + 37°

Bearing: 270° — Grid — Magnetic

Target: — E — N — Target depth:

Approved by: M.C. Rogers — Date: 1/8/75

SURVEY

Survey Co-ords: — E — N

Survey bearing: 271°10' — Grid — Magnetic

Surveyed in by: — Date:

Actual Co-ords: 10 341.0 — E — 10 666.8 — N

R.L. of collar: 1010.3 — Inclination of hole: ±38°30'

Picked up by : R.J.H. — Date: 13.8.75

SUMMARY

Logged by : S.G. Brown

Results: 2 - 9m 7m @ 1.16% WO_3

M5 RIG

DRILLING

Driller/Contractor: Geopeko

Date commenced: 8/8/75 — Date terminated: 12/8/75

Casing: Size : NIL

Depth :

Core: Size : E17

Depth : 10.22

Wedge Runoff:

Wedge placed: NIL — Depth:

Proposed by : — Approved by:

Reason:

Extension: NIL

Reason for termination: Entered fault zone at 9.57m — Final depth: 10.22m

Condition of hole on completion:

Casing : NIL

Cemented : NO

Bore hole survey: NO

Water: Minor.

Comments on drilling conditions: Good to 9.57m.

GEOPEKO LIMITED - KING ISLAND BOLD HEAD MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. B 665/1

Survey method :
Final depth :
Casing depth :

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

DEPTH (m)	Bearing		Inclination		True Vertical Depth (m)	Co-oridinates
	Grid	Mag.	Read	Corrected		
HOLE NOT SURVEYED						

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. B 665/1

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 7.95	g skarn/ fault zone	12	-	most of the joints in this interval contain carbonate and chlorite	-	92	31	Good core recovery. Ground incompetent @ 3.58 and 4.55. slickenslides on joints @ 3.63 and 4.60
7.95 - 10.22 E.O.H.	fault zone	>20	-	mainly chlorite and carbonate	-	85	0	This interval consists mainly of rubble. Core lost @ 9.89m. Much of core is leached.

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designation) $+= \frac{\text{length core >10 cms}}{\text{length drilled}}$ %
3. Core size. E17

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. B 665/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.05	1.05	0.78	74
1.85	0.80	0.52	65
2.40	0.55	0.59	107
3.00	0.60	0.60	100
3.36	0.36	0.46	128
3.90	0.54	0.58	107
4.50	0.60	0.60	100
5.55	1.05	0.90	86
6.65	1.10	1.21	110
7.15	0.50	0.26	52
7.95	0.80	0.82	103
8.18	0.23	0.15	65
8.83	0.65	0.74	114
9.06	0.23	0.19	83
9.54	0.48	0.37	77
9.59	0.05	0.05	100
9.68	0.09	0.08	89
9.79	0.11	0.09	82
9.89	0.10	0.08	80
10.09	0.20	0.07	35
10.22	0.13	0.11	85
E.O.H.			

REMARKS: Sections of the face being drilled, fell off, leading to the inaccuracy noted in the core recovery column.

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 665/1

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
BH NO								
1951	0	1	1.0	1.0	0.46	<0.01		
?	1	2	1.0	1.0	0.02	<0.01		
	2	3	1.0	1.0	0.27	<0.01		
	3	4	1.0	1.0	2.42	0.04	7m @ 1.16% WO_3	
5	4	5	1.0	1.0	0.62	0.01		
6	5	6	1.0	1.0	3.02	0.06		
7	6	7	1.0	1.0	0.98	0.01		
8	7	8	1.0	1.0	0.56	<0.01		
9	8	9	1.0	1.0	0.26	<0.01		
1960	NO	Sample						

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND BOLD HEAD MINE

PHOTOGRAPHIC LOG

D.D.H. NO. B 665/1

0 - 9.57m — GARNET SKARN

A brown garnet pyroxene skarn quite disturbed in appearance and containing moderate to good grade scheelite throughout. Quite large areas of this unit appear to be leached to some extent.

9.57m - 10.22m E.O.H. — FAULT ZONE

Only fine gravel recovered in this area. Although very weathered the chips are barren of scheelite and appear to be chlorite rich possibly lower volcanics.


DDH BH65/11
000 - 1022 m.
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO: BH 655/1

PLANNING

Proposer: S.G. Brown. Depth: 7m.

Location: N62 drive 'B' lens stope.

Purpose of hole: To test for ore west of present stope.

Co-ordinates: 10390 E 10655 N

Inclination: Horizontal Target depth:

Bearing: 360° °Grid °Magnetic

Target: E N

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

SURVEY

Survey Co-ords: E N

Survey bearing: 12°21' °Grid °Magnetic

Surveyed in by: Date:

Actual Co-ords: 10392.0 E 10655.4 N

R.L. of collar: 1004.41 Inclination of hole: 1°50'

Picked up by: R.J.H. Date: 4-4-75

SUMMARY

Logged by: S.G. Brown.

Results: No significant mineralization intersected.

DRILLING

Driller / Contractor: Geopeko

Date commenced: 2/4/75 Date terminated: 3/4/75

Casing: Size : NIL

Depth:

Core: Size : 'E17

Depth: 7.65

Wedge Runoff:

Wedge placed: NIL Depth:

Proposed by: Approved by:

Reason:

Extension: NIL Final depth: 7.65m.

Reason for termination: Grade of mineralization decreased.

Condition of hole on completion:

Casing : Nil.

Cemented: NO

Bore hole survey: No.

Water:

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 655/1

Depth Interval (metres)	Rock Type	Fract-ures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.	% Core Reco-very	R.Q.D.	Remarks (weathering)
0 - 7.65m	mineral-ised ch.	11		chlorite is general carbonate @ 6.30m		101	48	0 - 0.40: rubble - good chlorite on broken joint surfaces.

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No.BH 655/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 1.00	1.00	1.04	104
2.38	1.38	1.46	106
5.38	3,00	3.06	102
7.65	2.27	2.16	95

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 655/1

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
D0990	0	1	1.0	1.0	0.15	<0.01				
1	1	2	"	"	0.04	<0.01				
2	2	3	"	"	0.22	0.01				
3	3	4	"	"	0.32	0.01				
4	4	5	"	"	0.02	<0.01				
D 0995	5	6	"	"	0.10	<0.01				

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. D 655/1

LAB.	K.I.S.		LAB.	K.I.S.		LAB.	A.M.D.E.L.		LAB.	A.C.S.L.		
Original Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	Check Sample No.	WO_3	Mo.	
D 0993	0.32	0.01	BH 1642	0.36	< 0.01	BH 1643	0.49		BH 1644	0.51		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 655/1

,0 - 7.65m MINERALIZED MARBLE

A very disturbed unit with quite large amounts of pyroxene and garnet with scattered mineralization throughout to about 6.2m.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 655/1

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	
D 0993	0.32	0.01	BH 1642	0.36	<0.01	BH 1643	0.49		BH 1644	0.51		

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. ~~DX~~ B 655/1

LAB.	K.I.S.		LAB. KIS 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	
D 0995	0.10	0.01	SAMPLE BAG MISSING									


DDH BH650/2
000-765 m.
E.O.H.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 650/7

PLANNING

PROPOSER: T. Potter DEPTH: 20 m

LOCATION: A Lens Outcrop

PURPOSE OF HOLE: Structure & Grade

PROPOSED CO-ORDS: 40354 E 10650 N

INCLINATION: -75°

BEARING: 090 °Grid °Mag

TARGET: E N

DEPTH:

CHECKED BY: DATE:

SURVEY

SURVEY CO-ORDS: E N

SURVEYED BEARING: °Grid °Mag

SURVEYED IN BY: DATE:

ACTUAL CO-ORDS: 40353.11 E 10649.10 N

R.L. OF COLLAR: 1116.98

INCLINATION OF HOLE:

PICKED UP BY: B. Lennon DATE: 7/8/80

SUMMARY

LOGGED BY:

RESULTS:

DRILLING

DATE COMMENCED: 17/7/80 DATE TERMINATED:

DRILLER/CONTRACTOR: Geopeko - Jacro Drill

CASING: SIZE:
DEPTH:

AUGER: SIZE:
DEPTH: 10.5 m

Auger: 0 - 10.5 m Diam, 10.5 - 24.1 m

EXTENSION:

FINAL DEPTH: 24.1 m

REASON FOR TERMINATION:

CONDITION OF HOLE ON COMPLETION:

CASING:

CEMENTED:

BORE HOLE SURVEY:

WATER:

COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 650/7

Auger SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
KF 367	0	1.5	1.5		0,15			
368	1.5	3,0	"		0,13			
369	3,0	4,5	"		0.20			
370	4,5	6,0	"		0,11			
371	6,0	7,5	"		0,09			
372	7,5	9,0	"		0,06			
373	9,0	10,5	"		0.23			
Diamond Drill Core 10,9 - 24,1 m EOH								

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 650/7

Auger Drilling 0.0 - 10.5 m
Diamond Drilling 10.9 - 24.1 m

0.0 - 1.5 m	Dark orange - brown clay and humus
1.5 - 3.0	Orange - brown clay, no grit
3.0 - 4.5	" " " " "
4.5 - 6.0	" " " " "
6.0 - 7.5	Kahki - brown clay
7.5 - 9.0	Orange - brown clay
9.0 - 10.5	" " "
10.5 - 10.9	No core
10.9 - 12.9	2 m drilled 0.5 m recovered 0.0 - 0.5 quartzite pieces up to 6 cm with weathered ends. Quartzite is fresh, fine grained and very hard.
12.9 - 18.9	6 m drilled. Nil core recovered
18.9 - 21.9	3 m drilled 0.5 m recovered 0.0 - 0.5 m dark green rock with biotite and a ground mass of very fine grained light green. Maybe volcanics or biotite pyroxene hornfels.
21.9 - 24.1	2.2 m drilled. 2.1 m recovered 21.9 - 22.0 No core 22.0 - 24.1 biotite hornfels. The first 10 cm showing weathering, the rest is fresh rock. Shows numerous calcite veinlets at 50° to core axis. Last 10 cm broken core.

No mineralisation in the diamond core.


DDH BH 650/7
E.O.H
10·9 – 24·1 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 650/6

PLANNING

Proposer: S.G. Brown — Depth: 65m

Location: R 61 drive

Purpose of hole: To test C_1 and C_2 west

Co-ordinates: C 40346.0 E 10650.0 N
Inclination: -70° Magnetic:
Bearing 270° Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 17/8/77

SURVEY

Survey Co-ords: - E N
Survey bearing: 272° 30' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 40 348.30 E 10 649.34 N
R.L. of Collar: 1003.28 Inclination of Hole: -68° 28'
Picked up by: J. Cook Date: 23/8/77

SUMMARY

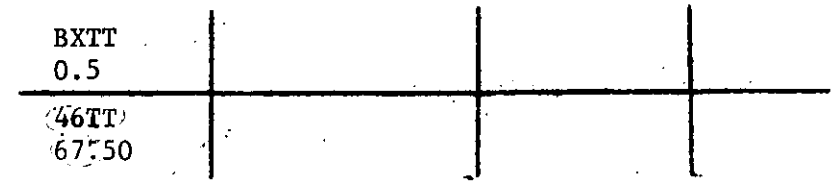
Logged by: S. G. Brown
Results: 34.0 - 41.0m 7.0m @ 0.50% WO_3
54.0 - 63.0m 9.0m @ 1.00% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 16/8/77 Date terminated: 23/8/77

Casing: Size: BXTT
Depth: 0.5
Core: Size: (46TT)
Depth: 67.50



Wedge Runoff:
Wedge placed: No Depth:
Proposed by: Approved by:
Reason:
Extension: Nil
Reason for termination: Entered adamellite

Condition of hole on completion: Final depth: 67.50m
Casing: pulled
Cemented: No
Bore hole survey: Multishot
Water: minor

Comments on drilling conditions: Good except Western Fault

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 650/6

Survey method: Multishot

Final depth : 67.50m

Casing depth : 1.0m

Depth surveyed to: 66.50m

Date surveyed: 22/8/77

Surveyed by : L.D.

Checked by : S.G.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
9.0	274° 00'	S66° 00'W	21°	69° 00'	8.40	1.31	2.95
18.0	274° 30'	S66° 30'W	21°	69° 00'	16.80	2.60	5.91
27.0	275° 00'	S67° 00'W	21°	69° 00'	25.20	3.86	8.88
40.0	274° 30'	S66° 30'W	21°	69° 00'	37.34	5.72	13.15
50.0	276° 30'	S68° 30'W	20° 45'	69° 15'	46.69	7.02	16.44
60.0	277° 00'	S69° 00'W	20° 45'	69° 15'	56.04	8.29	19.74
66.50	276° 00'	S68° 00'W	20° 45'	69° 15'	62.12	9.15	21.87
67.50 EOH	-	-	-	-	63.10	9.29	22.19

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH650/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.50	3.50	3.43	98
6.50	3.00	2.66	89
9.50	3.00	2.92	97
12.50	3.00	3.05	102
15.50	3.00	2.96	99
18.50	3.00	3.00	100
21.50	3.00	2.49	83
25.50	4.00	3.98	99
27.50	2.00	1.95	98
30.50	3.00	2.90	97
33.50	3.00	2.87	96
36.50	3.00	2.83	94
41.50	5.00	5.25	105
44.50	3.00	2.96	99
47.50	4.00	3.99	100
50.70	2.20	2.32	105
52.50	1.80	1.78	99
55.50	3.00	2.97	99
57.70	2.20	2.19	99
60.50	2.80	2.62	94
62.60	2.10	1.92	91
66.50	3.90	3.33	85
EOH 67.50	1.00	0.61	61

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 650/6

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH4992	0.0	1.0	1.0	1.0	0.20	<0.01	
3	1.0	2.0	1.0	1.0	0.27	<0.01	
4	2.0	3.0	1.0	1.0	0.14	<0.01	
BH4995	33.0	34.0	1.0	1.0	<0.01	<0.01	
6	34.0	35.0	1.0	1.0	0.63	0.01	
7	35.0	36.0	1.0	1.0	1.20	0.04	34.0 - 41.0m
8	36.0	37.0	1.0	1.0	0.19	<0.01	7.0m @ 0.50% WO_3
9	37.0	38.0	1.0	1.0	0.43	0.01	
BH5001	38.0	39.0	1.0	1.0	0.23	0.01	
2	39.0	40.0	1.0	1.0	0.43	0.01	
3	40.0	41.0	1.0	1.0	0.38	0.01	
4	41.0	42.0	1.0	1.0	0.22	0.01	
5	42.0	43.0	1.0	1.0	0.11	0.01	
6	43.0	44.0	1.0	1.0	0.14	0.01	
7	44.0	45.0	1.0	1.0	0.50	0.01	
BH5008	52.0	53.0	1.0	1.0	0.01	0.01	
9	53.0	54.0	1.0	1.0	0.01	0.01	
10	54.0	55.0	1.0	1.0	0.74	0.02	
11	55.0	56.0	1.0	1.0	0.82	0.03	
12	56.0	57.0	1.0	1.0	0.82	0.02	
13	57.0	58.0	1.0	1.0	3.45	0.14	54.0 - 63.0m
14	58.0	59.0	1.0	1.0	0.68	0.03	9.0m @ 1.00% WO_3
15	59.0	60.0	1.0	1.0	0.62	0.03	
16	60.0	61.0	1.0	1.0	0.55	0.03	
17	61.0	62.0	1.0	1.0	0.74	0.04	
18	62.0	63.0	1.0	1.0	0.62	0.01	
19	63.0	64.0	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 650/6

0.00 - 2.82 MINERALISED MARBLE

Essentially this unit is a grey black B lens marble with large irregular patches of mineralised pyroxene garnet hornfels.

The scheelite mineralisation is erratic but may be ore grade between 1.0 - 2.0m.

2.82 - 18.14 MARBLE

Typical grey-black well bedded B lens marble. This unit is barren except between 7.83m - 8.65m where a small unit of mineralised marble occurs.

Below 16.17m there are a number of zones of broken core associated with the Western Fault zone.
Bedding is at 70^{o} LCA at 6.40m
60^{o} LCA at 9.65m
57^{o} LCA at 14.60m
40^{o} LCA at 16.60m

Some minor pyroxene and garnet is apparent in the last 50cm of this unit.

18.14 - 21.24 WESTERN FAULT ZONE

The first 50cm of this unit consists of brecciated marble heavily leached. Below 18.64m however the core indicates that the major unit in the fault zone is biotite hornfels.

21.24 - 34.11 PODDED BIOTITE PYROXENE HORNFELS

Initially this is a fairly typical disturbed biotite pyroxene hornfels with small pods present through out. The number of these pods tends to increase towards 30.05m. Between 30.05 and about 32.70m the core is even more disturbed than usual and there are large pods of marble present between 30.50 - 31.20m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 650/6

34.11 - 44.52 PYROXENE GARNET HORNFELS

A typical unit of podded pyroxene garnet hornfels with quite large amounts of calcite present through out the core. Scheelite mineralisation is present through out but is probably only ore grade over the first 3m.

The core is quite fractured and chlorite is present along the joint planes.

44.52 - 53.47 BIOTITE PYROXENE HORNFELS

This unit is essentially a disturbed biotite pyroxene hornfels with irregular pods of calcite pyroxene garnet rich material present in a few areas.

A small aplite dyke is present between 52.05 - 52.50m. The core is quite fractured between 50.70m - 53.00m.

53.47 - 62.87 GARNET SKARN

A coursely crystalline garnet skarn containing high grade scheelite through out. The scheelite is present in a very finely disseminated crystals.

The core is quite leached in some areas and pug occurs in others due to the proximity of the granite contact.

53.56 - 53.62m pug
54.76 - 55.0m leached
57.25 - 58.03m pug initially then leached zone
62.10 - 62.19m pug

62.87 - 67.50m EOH BOLD HEAD ADAMELLITE

A typical unit of adamellite with the dominant large feldspar laths.

The last 1m is heavily leached.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 650/6

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.
5016	0.55		5665	0.51		5666	0.68		5667	0.58		B 650/6
4997	1.20		5674	0.98		5675	1.20		5676	1.01		"
5010	0.74		5632	0.74		5633	0.89		5634	0.84		"
5013	3.45		5668	3.97		5669	4.03		5670	3.52		"


DDH BH 650/6
00.00 - 15.06m.


DDH BH 650/6
15.06 - 28.42m.


DDH BH 650/6
28.42 - 43.34m.


DDH BH 650/6
43.34 - 57.70 m.


DDH BH 650/6
57.70 - 67.50 m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 650/5

PLANNING

Proposer: S. G Brown — Depth: 75m

Location: M 63 drive B lens Main

Purpose of hole: To test C_1 C_2 and ? D lenses.

Co-ordinates: 40370.0 E 10650.0 N
Inclination: -82°
Bearing 090° Grid
Target: E N
Approved by:
Magnetic:
Target Depth: 92m
Date:

SURVEY

Survey Co-ords: E N
Survey bearing: 84° 22' Grid
Surveyed in by:
Actual Co-ords: 40 366.86 E 10 650.06 N
R.L. of Collar: 1005.72
Picked up by: A. Grigulis
Magnetic:
Date:
Inclination of Hole: -83° 52'
Date: 4/4/77

SUMMARY

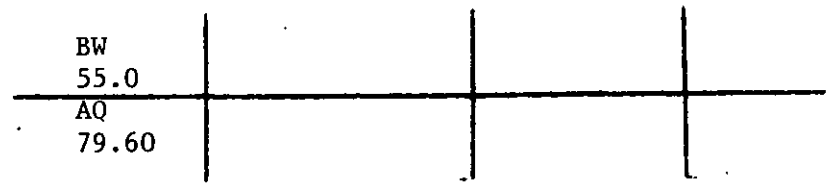
Logged by: S. G. Brown
Results: 44.0 - 49.0m. 5m @ 0.64% WO_3
60.0 - 69.0m. 9m @ 1.62% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 20/3/77 — Date terminated: 4/4/77

Casing: Size: BW
Depth: 55.0
Core: Size: AQ
Depth: 79.60



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

Extension: Nil
Reason for termination: Entered granite at 70.65m

Condition of hole on completion: — Final depth: 79.60m
Casing: Pulled
Cemented: No
Bore hole survey: Multi shot
Water: Nil

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 650/5

Survey method: Multishot
Final depth : 79.6m
Casing depth : 55.0m

Depth surveyed to: 78.0m
Date surveyed: 7/4/77
Surveyed by : V.P.
Checked by : C.T.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
18.0	073° 00'	N45° 00'E	7° 00"	-83° 00'	17.88	1.52	1.52
36.0	073° 00'	N45° 00'E	6° 00'	-84° 00'	35.77	2.94	2.94
54.0	073° 00'	N45° 00'E	6° 00'	-84° 00'	53.67	4.30	4.30
66.0	071° 30'	N43° 30'E	6° 45'	-83° 15'	65.59	5.29	5.26
78.0	070° 00'	N42° 00'E	6° 45'	-83° 15'	77.51	6.37	6.21

REMARKS: Hole cased to 55.0m.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 650/5

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.50	3.50	3.10	88
6.50	3.0	3.06	102.00
9.50	3.0	2.93	98
12.80	3.30	3.26	99
15.80	3.0	2.97	99
18.80	3.00	2.97	99
21.80	3.00	3.01	100
24.80	3.0	3.02	101
28.10	3.30	3.21	97
31.10	3.00	2.91	97
34.10	3.00	3.05	102
37.10	3.00	3.01	100
40.10	3.00	2.87	96
43.40	3.30	3.42	104
46.50	3.10	3.10	100
49.50	3.00	3.04	101
52.50	3.00	3.00	100
55.60	3.00	2.74	91
58.50	3.00	2.61	87
61.50	3.00	2.98	99
64.50	3.10	3.05	98
67.60	3.00	2.99	100
70.60	3.00	3.02	101
73.60	3.00	3.10	103
76.60	3.00	2.95	98
E.O.H79.60	3.00	3.02	101

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. B 650/5

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
B4519	41.0	42.0	1.0	1.0	<0.01	0.02		
20	42.0	43.0	1.0	1.0	<0.01	<0.01		
21	43.0	44.0	1.0	1.0	0.13	<0.01		
22	44.0	45.0	1.0	1.0	0.31	0.01		
23	45.0	46.0	1.0	1.0	0.29	0.01	44.0 - 49.0m	
24	46.0	47.0	1.0	1.0	0.95	0.04	5m @ 0.64% WO_3	
25	47.0	48.0	1.0	1.0	0.26	0.01		
26	48.0	49.0	1.0	1.0	1.40	0.04		
27	49.0	50.0	1.0	1.0	< 0.01	< 0.01		
28	50.0	51.0	1.0	1.0	0.05	< 0.01		
29	51.0	52.0	1.0	1.0	0.13	< 0.01		
30	52.0	53.0	1.0	1.0	0.07	< 0.01		
31	53.0	54.0	1.0	1.0	0.01	< 0.01		
32	54.0	55.0	1.0	1.0	< 0.01	< 0.01		
33	55.0	56.0	1.0	1.0	< 0.01	< 0.01		
34	56.0	57.0	1.0	1.0	< 0.01	< 0.01		
35	57.0	58.0	1.0	1.0	< 0.01	< 0.01		
36	58.0	59.0	1.0	1.0	< 0.01	< 0.01		
37	59.0	60.0	1.0	1.0	0.07	< 0.01		
38	60.0	61.0	1.0	1.0	1.29	0.06		
39	61.0	62.0	1.0	1.0	1.80	0.08	60.0m - 69.0m	
40	62.0	63.0	1.0	1.0	1.37	0.07	9m @ 1.62% WO_3	
41	63.0	64.0	1.0	1.0	1.33	0.07		
42	64.0	65.0	1.0	1.0	3.22	0.16		
43	65.0	66.0	1.0	1.0	3.25	0.14		
44	66.0	67.0	1.0	1.0	1.30	0.10		
45	67.0	68.0	1.0	1.0	0.36	0.34		
46	68.0	69.0	1.0	1.0	0.68	0.13		
47	69.0	70.0	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 650/5

0.00 - 19.62	'B' LENS MARBLE

A typical fine grained grey-black marble with irregular banding present through out. Between 0.0 and 2.30m there is a small unit of pyroxene rich mineralized marble with minor scheelite, the unit is otherwise unmineralized.

A fault zone is present between 16.18 - 16.48m at approx. 15° LCA.

19.62 - 20.10	MINERALIZED MARBLE

A small pyroxene rich unit of replaced marble with trace scheelite. This unit is gradational to the underlying biotite hornfels.

20.10 - 42.66	BIOTITE PYROXENE HORNFELS

Initially this unit is finely banded and contains trace garnet, but below about 22.30m it becomes a typical disturbed biotite pyroxene hornfels with well developed, although minor, fragments and pods.

Below 37.10m these pods increase both in number and size and calcite pods rimmed with garnet become quite distinct.

Between 41.86 - 42.16 there is a pod of andradite garnet and calcite which contains moderate scheelite.

42.66 - 53.29	PODDED PYROXENE GARNET HORNFELS

A disturbed unit of podded pyroxene garnet hornfels with medium grade scheelite present through out both as finely disseminated mineralization and as large crystals.

53.29 - 58.46	BIOTITE PYROXENE HORNFELS

This unit consists of extremely broken biotite pyroxene hornfels with quite large amounts of calcite veining present through out on the fracture planes.

Initially this unit contains quite large amounts of pyroxene and garnet present as pods.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 650/5

58.46 - 63.79 PYROXENE GARNET SKARN

This is not a podded unit but consists of a uniform very fine garnet and pyroxene mass with high grade scheelite present below 60m.

This is the C_2 lens skarn below the 60m mark while above this there are minor amounts of biotite present.

63.79 - 69.35 MINERALISED MARBLE

This is rather an unusual unit in that it consists initially of recrystalized marble with large amounts of pyrite chalco-pyrite and pyroxene in it. Below 66.5m the pyroxene makes up almost 50% of this unit.

Scheelite mineralization is present both as finely disseminated crystals and as very large crystals irregularly through out this unit.

69.35 - 70.65 BANDED PYROXENE GARNET CALCITE HORNFELS

A small banded unit containing minor scheelite. This unit is similar to banded footwall beds but contains more pyroxene than usual.

70.65 - 79.60 ADAMELLITE
E.O.H.

A disturbed irregular and weathered unit of Bold Head adamellite.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 650/5

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 4521	0.13	0.01	2784	~~0.03~~ 0.09		2785	0.13		2786	0.16		
BH 4538	1.29	0.06	2787	1.40		2788	1.27		2789	1.38		
BH 4545	0.36	0.34	2790	0.55		2791	0.67		2792	0.49		


DDH BH 650/5
00.00 - 15.13 m.


DDH BH 650/5
15.13 - 30.00 m.


DDH BH 650/5


DDH BH 650/5
44.63 - 58.74 m.


DDH BH 650/5
58.74 - 73.51 m.


DDH BH 650/5
73.51 - 78.60 m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 650/4

PLANNING

Proposer: S.G. Brown — Depth: 80m.

Location: Cuddy off decline 10650 N.

Purpose of hole: To test C1 and C2 lenses.

Co-ordinates: 10 420 E 10650 N
Inclination: -61°
Bearing 270° Grid
Target: E
Approved by: M.C. Rogers

Magnetic:
Target Depth:
N
Date: 10/9/76

SURVEY

Survey Co-ords: E N
Survey bearing: 266°38' Grid
Surveyed in by:
Actual Co-ords: 10 420.83 E 10 650.15 N
R.L. of Collar: ~~1000.0~~ 997.48
Picked up by: A.G.

Magnetic:
Date:
Inclination of Hole: -56° 55'
Date 1/10/76

SUMMARY

Logged by: S.G. Brown
Results: 42.0 - 47.0m, 5m @ 0.58% WO_3, 58.0 - 60.0m, 2m @ 1.54% WO_3, 61.0 - 63.0m, 2m @ 0.55% WO_3.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 19/9/76 — Date terminated: 29/9/76

Casing:	Size:	NQ			
	Depth:	1m			
Core:	Size:	BQ			
	Depth:	100.2m			

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

Extension:
Reason for termination: Entered adamellite.

Condition of hole on completion: Final depth: 100.2m
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. BH 650/4

Survey method: Multishot camera
Final depth : 100.2m
Casing depth : 1m

Depth surveyed to: 100m
Date surveyed: 29/9/76
Surveyed by : V. Powell
Checked by : R. Bogaart

[redacted] Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
12m	271°30'	243°30'	31°22'	-58°38'	10.24	3.23	5.36
21m	272°00'	244°00'	32°00'	-58°00'	17.90	5.31	9.62
36m	273°00'	245°00'	32°00'	-58°00'	30.64	8.73	16.76
48m	273°30'	245°30'	32°00'	-58°00'	40.81	11.46	22.53
60m	273°00'	245°00'	32°30'	-57°30'	50.95	14.12	28.36
75m	273°30'	245°30'	33°00'	-57°00'	63.55	17.40	35.81
87m	274°00'	246°00'	33°30'	-56°30'	73.57	20.09	41.85
[redacted]m	279°00'	251°00'	33°45'	-56°15'	84.38	22.57	48.63

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 650/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.30	2.30	1.89	82
2.30 - 5.30	3.00	3.01	100
5.30 - 8.30	3.00	2.92	97
8.30 - 11.30	3.00	3.03	101
11.30 - 14.30	3.00	3.00	100%
14.30 - 17.30	3.00	3.02	101
17.30 - 21.50	4.20	2.99	71
21.50 - 24.50	3.00	3.05	102
24.50 - 27.50	3.00	2.83	94
27.50 - 30.50	3.00	3.00	100
30.50 - 33.50	3.00	2.99	100
33.50 - 36.50	3.00	3.08	103
36.50 - 39.50	3.00	2.99	100
39.50 - 42.50	3.00	3.00	100
42.50 - 45.50	3.00	3.04	101
45.50 - 48.50	3.00	3.06	102
48.50 - 51.50	3.00	2.98	99
51.50 - 54.50	3.00	3.00	100
54.50 - 57.50	3.00	2.99	100
57.50 - 60.50	3.00	2.99	100
60.50 - 63.50	3.00	2.98	99
63.50 - 66.50	3.00	3.05	102
66.50 - 69.50	3.00	2.93	98
69.00 - 72.50	3.00	3.03	101
72.50 - 75.50	3.00	2.95	98
75.50 - 78.0	2.50	2.54	102
78.0 - 78.50	0.50	0.46	92
78.50 - 81.50	3.00	2.82	94
81.50 - 84.50	3.00	2.82	94
84.50 - 86.40	1.90	1.88	99
86.40 - 89.00	2.60	2.64	102
89.00 - 92.00	3.00	2.92	97
92.00 - 95.00	3.00	3.00	100
95.00 - 97.80	2.80	2.76	99
97.80 - 100.20	2.40	2.40	100
E.O.H.			

GEOPEKO LIMITED -BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 650/4

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 3841	41.0	42.0	1.0	1.0	0.02	≤0.01		
2	42.0	43.0	1.0	1.0	[illegible].01	0.01		
3	43.0	44.0	1.0	1.0	0.76	0.01	42.0 - 47.0m,	
4	44.0	45.0	1.0	1.0	0.44	<0.01	5.0m @ 0.58% WO_3	
5	45.0	46.0	1.0	1.0	0.06	<0.01		
6	46.0	47.0	1.0	1.0	0.65	≤0.01		
7	47.0	48.0	1.0	1.0	0.02	0.01		
8	48.0	49.0	1.0	1.0	<0.01	0.01		
9	54.0	55.0	1.0	1.0	0.19	≤0.01		
3850	55.0	56.0	1.0	1.0	<0.01	≤0.01		
1	56.0	57.0	1.0	1.0	<0.01	≤0.01		
2	57.0	58.0	1.0	1.0	0.06	≤0.01		
3	58.0	59.0	1.0	1.0	2.03	0.07	58.0 - 60.0m, 2m @	
4	59.0	60.0	1.0	1.0	1.05	0.04	1.54% WO_3	
5	60.0	61.0	1.0	1.0	0.04	≤0.01		
6	61.0	62.0	1.0	1.0	0.34	0.02	61.0 - 63.0m, 2m @	
7	62.0	63.0	1.0	1.0	0.75	≤0.01	0.55% WO_3	
8	63.0	64.0	1.0	1.0	0.24	≤0.01		
9	64.0	65.0	1.0	1.0	0.11	≤0.01		
3860	65.0	66.0	1.0	1.0	0.04	≤0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 650/4

0.0 - 23.24 QUARTZITES

Finely spotted grey quartzites with some minor bands of dark grey fine grained siltstones.

Pyrite is common throughout this unit.

Bedding is not apparant and the siltstone units are present often as irregular angular fragments in the quartzites. The highest pyrite content is usually associated with the fine siltstones. Minor quartz veinlets occur throughout this unit. Below 17.30m the core is quite heavily fractured and some weathering is apparant on the joints in this area.

23.24 - 24.89 BOUNDARY FAULT

A zone of brecciated and recemented quartzites. The unit consists of fragments of quartizte with a quartz cement.

24.89 - 36.50 PODDED BIOTITE HORNFELS

A fine grained unit of brown - purple biotite hornfels with a small number of irregular pods of siliceous material present throughout. Pyrite is often associated with these pods.

A calcite filled fracture is present at 33.16m @ 46° LCA.

36.50 - 36.81 FAULT ZONE

Brecciated podded biotite hornfels with calcite cement between the fragments.

36.81 - 41.08 PODDED BIOTITE HORNFELS

As above but with increasing amounts of carbonate pods present here.

A calcite filled fracture is present at 37.57m @ 44°LCA
37.24m -37.44m
Aplite.

41.08 - 41.24 FAULT ZONE

This zone consists of brecciated biotite and pyroxene hornfels with calcite and clinohumite infilling at 47° LCA.

MACKEREL FAULT cf R60 5th LIFT.

41.24 - 47.48 PYROXENE GARNET HORNFELS

A podded unit of pyroxene garnet hornfels with the pods consisting of calcite.

Scheelite mineralisation is present between 41.88m - 47.14m with only minor areas reaching ore grade.

A calcite filled fracture is present at 45.59m @ 33° LCA.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No: BH 650/4

47.48 - 53.85 PYROXENE HORNFELS

This unit consists of pyroxene hornfels with initially minor garnet present in the core.
The unit is podded in nature to about 51.43m below which is disturbed and banded.
Minor mineralisation is present at 48.50 metres.
A calcite filled fracture (fault?) is present at 43° LCA at 48.04m and the core is broken over about 6cm. 162 FAULT
bedding is at 71° LCA at 51.7m.
70° LCA at 53.6m.

53.85 - 58.13 BIOTITE PYROXENE GARNET HORNFELS

This is a podded unit consisting of biotite, pyroxene and garnet rich areas irregularly occuring throughout the core.
Low grade (sub economic) mineralisation is present in this unit.

58.13 - 59.86 GARNET SKARN

A well developed garnet skarn containing good grade scheelite mineralisation throughout this unit.

59.86 - 61.58 MARBLE

A grey - black well bedded recrystalized marble. This unit appears undisturbed and is barren of scheelite.
bedding is at 60° LCA at 60.30m.

61.58 - 65.26 PYROXENE GARNET SKARN

This unit is mainly a disturbed pyroxene garnet skarn but below about 63metres some banding is apparant and it grades down the hole into a banded unit, ~~below~~.
Scheelite mineralisation is present throughout this unit.
Bedding is at 65° LCA at 64.40m.

65.26 - 66.85 BANDED FOOTWALL BEDS

A small unit of finely banded pyroxene - garnet calcite hornfels.
bedding is at 53° LCA at 66.60m. This unit is barren.

66.85 - 73.48 PYROXENE HORNFELS

This unit consists of a fine grained light green pyroxene hornfels with only minor amounts of biotite present in some areas, mainly as irregular pods.
Some bedding is apparant about the 72.5m mark at 47° L.CA.
A small aplite dyke is present between 71.33 - 71.59m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 650/74

73.48 - 100.20 BOLD HEAD ADAMELLITE

This portion of the granite is quite heavily weathered in some areas and has been faulted quite heavily in these areas also.

78.94 - 80.70m Granite faulted sub parallel to core. The core here is very weathered with the feldspar of the granite altered to kaoline.

A further minor broken and leached zone occurs at 90.71 metres.

100.20 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 650/4

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 3845	0.06	0.01	BH 2153	<0.01		BH 2155	0.125		BH 2156	0.077		
3855	0.04		2157	<0.01		2158	0.125		2159	0.068		


DDH BH650/4
0·0 - 13·91 m.


DDH BH650/4
13·91 - 29·60 m.


DDH BH650/4
29·60 - 44·07 m.


DDH BH650/4
44·07 - 58·82 m.


DDH BH650/4
58·82 - 73·61 m


DDH BH650/4
73·61 - 87·93 m


DDH BH650/4
87·93 - 100·20 m

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 650/3

PLANNING

Proposer: S.G. Brown — Depth: 25m

Location: N 52 drive

Purpose of hole: To test the extension of the Boundary orebody at 10650 N.

Co-ordinates: 10388 E 10650 N
Inclination: +37° Magnetic:
Bearing 090° Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 25/5/76

SURVEY

Survey Co-ords: E N
Survey bearing: 93°15' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 10 388.12 E 10650.03 N
R.L. of Collar: 1024.47 Inclination of Hole: +42°56'
Picked up by: A.G. Date: 20/9/76

SUMMARY

Logged by: S.G. Brown
Results: No mineralisation encountered

DRILLING

Driller/Contractor: Geopeko

Date commenced: 30/8/76 Date terminated: 1/9/76

Casing: Size: Nil
Depth:
Core: Size: E 17
Depth: 22.0

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

Extension: Nil
Reason for termination: Entered aplite

Condition of hole on completion: Final depth: 22.0m
Casing: Nil
Cemented: No
Bore hole survey: Yes, acid tube
Water: No

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 650/3

Survey method: Acid tube
Final depth : 22.0
Casing depth : Nil

Depth surveyed to: 22m
Date surveyed: 3/9/76
Surveyed by : L.Limbourne
Checked by : V. Powell

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
22m			46°00'	39°00'			

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 650/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.20	2.20	2.20	100%
2.20 - 4.30	2.10	2.06	98%
4.30 - 6.60	2.30	2.30	100%
6.60 - 9.60	3.00	3.02	101%
9.60 - 12.30	2.70	2.71	100%
12.30 - 15.20	2.90	2.55	88%
15.20 - 16.40	1.20	1.04	87%
16.40 - 19.00	2.60	2.48	95%
19.00 - 22.00	3.00	2.53	84%
22.00 - E.O.H.			

GEOPEKO LIMITED -BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 650/3

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
		No Core Assayed						

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 650/3

0.00 - 11.81 MIDDLE VOLCANICS

A unit of brown purple middle volcanics with well developed feldspar spots apparant throughout. Minor banding is apparant throughout this unit, the bands are thin quartz rich bands often with chlorite and sulphides in them.

Some minor fractures are apparant.
at 7.55m ∠ 52° LCA calcite filled
at 1.75m ∠ 20° LCA clinohumite filled.

11.81 - 17.17 APLITE

This aplite has well developed 'chilled' margins with more mafic and courser grained material in the centre of the dyke.

Some minor areas of middle volcanics occur within this unit: 14.34 - 14.52 and 14.61 - 14.86.
The aplite is pinkish white in colour and is feldspar rich. In the centre of the dyke the appearance is similar as that of the Bold Head Adamellite.

17.17 - 17.81 MIDDLE VOLCANICS

Typical spotted middle volcanics as above.

17.81 - 17.82 FAULT (NO.2 FAULT)

A very small zone filled with carbonate. This fault is at 75° LCA.

17.82 - 19.15 SILICIFIED BANDED BIOTITE PYROSENE HORNFELS

This unit is grey white in colour and is badly disturbed over the first 60cm after which it becomes well bedded at 50° LCA.

19.15 - 19.43 PYROXENE HORNFELS

This is a grey green unit with minor amounts of garnet and trace scheelite present in it.

19.43 - 22.00 APLITE

A fine grained grey-white aplite without the large pink feldspars which are present in the previous dyke.

Between 14.57 - 14.76m there is a small patch of pyroxene garnet skarn with minor to trace scheelite.

A further 5cm of pgh is apparant at 14.93m in this case with minor scheelite present in it.

The Boundary Fault is not located in this hole.

22.00 E.O.H.


DDH BH6503
00-00 -21-00 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. B 650/2

PLANNING

Proposer: S.G. Brown — Depth: 22m.

Location: N52 drive at 10650N.

Purpose of hole: To test for mineralisation adjacent to the Boundary Fault

Co-ordinates: 10388.5 E 10650N N

Inclination: +1° Magnetic

Bearing: 090 Grid Target depth:

Target: E N

Approved by: M.C. Rogers Date:

SURVEY

Survey Co-ords: E N

Survey bearing: 90°30' Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 10388.5 E 10 650.1 N

R.L. of collar: 1022.60 Inclination of hole: -0°50'

Picked up by : R.J.H. Date: 16/12/75

SUMMARY

Logged by : S.G. Brown

Results: 13 - 17m 4m @ 0.91% WO_3

DRILLING

Driller/Contractor: Geopeko

Date commenced: 10/11/75 Date terminated: 13/11/75

Casing: Size : NIL

Depth :

Core: Size : E17

Depth : 20.13

Wedge Runoff:

Wedge placed: NIL Depth:

Proposed by : Approved by:

Reason:

Extension: NIL

Reason for termination: Entered quartzite. Final depth: 20.13m

Condition of hole on completion:

Casing : NIL

Cemented : No

Bore hole survey: Yes acid tube at 20.13m.

Water: NIL.

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND BOLD HEAD MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. B 650/2

Survey method : Acid Tube Test
Final depth : 20.13m
Casing depth : -

Depth surveyed to : 20.13
Date surveyed : 13.11.75
Surveyed by : G.S.S.
Checked by : R.B.

DEPTH (m)	Bearing		Inclination		True Vertical Depth (m)	Co-oridinates	
	Grid	Mag.	Read	Corrected		E	N
20.13m				-1°00'		10388.5	10650.1

REMARKS:

E

GEOPEKO LIMITED - KING ISLAND BOLD HEAD MINE

SUMMARY STRUCTURAL DATA

D.D.H. No. B 650/2

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0.0 - 9.25	lv	4	-	Carbonate and chlorite @ 0.51, 2.24. Chlorite @ 1.53, 4.45, 5.35	-	98	74	Excellent core recovery.
9.25 - 20.13 E.O.H.	lv/pgh/q.	5	-	chlorite @ 9.30, 19.50 carbonate and chlorite @ 11.75,14.67 16.84 chlorite and sulphide @ 12.36	-	98	70	Excellent core recovery.

FURTHER DATA & REMARKS

1. Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
2. R.Q.D. (rock quality designation) $+= \frac{\text{length core } >10 \text{ cms}}{\text{length drilled}}$ %
3. Core size. E17.

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No.BH 650/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.10	1.10	1.04	95
2.28	1.18	1.17	99
2.52	0.24	0.23	96
3.10	0.58	0.60	103
4.65	1.55	1.45	94
6.15	1.50	1.54	102
9.25	3.10	3.05	98
12.36	3.11	2.95	95
15.07	2.71	2.75	101
17.60	2.53	2.53	100
19.55	1.95	1.91	98
20.13	0.58	0.57	98
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 650/2

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
B 2013	12	13	1	1	<0.01	<0.01		
12	13	14	1	1	0.72	0.02		
15	14	15	1	1	0.92	0.04		
16	15	16	1	1	1.41	0.05	13 - 17m	4m @ 0.91% WO_3
17	16	17	1	1	0.60	0.02		
18	17	18	1	1	<0.01	<0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - ~~KING ISLAND~~ BOLD HEAD MINE

PHOTOGRAPHIC LOG

D.D.H. NO. B 650/2

0 - 12.80m — LOWER VOLCANICS

Initially this unit is a uniform dark black colour with large numbers of fine feldspar laths present throughout this core.

Below about 7 metres the core contains minor greenish grey bands occuring at irregular angles to the core.

These bands are rich in feldspar and contain quite large amounts of pyrrhotite.

12.80m - 17.86m — PYROXENE GARNET HORNFELS

A disturbed unit of pyroxene garnet hornfels.

Initially the unit is rich in marble and shows minor banding at almost 40° LCA at 15m.

The first 66cm of this unit contain the highest marble content and only trace scheelite.

Scheelite is present between 13.46m - 16.83m while from 16.83m - 17.86m the core is dominantly a sheared pyroxene hornfels with minor garnet.

17.86m - 20.13m — QUARTZITE

A fine grey - black unit of quartzite with minor siltstone bands present in it.

E.O.H. 20.13m

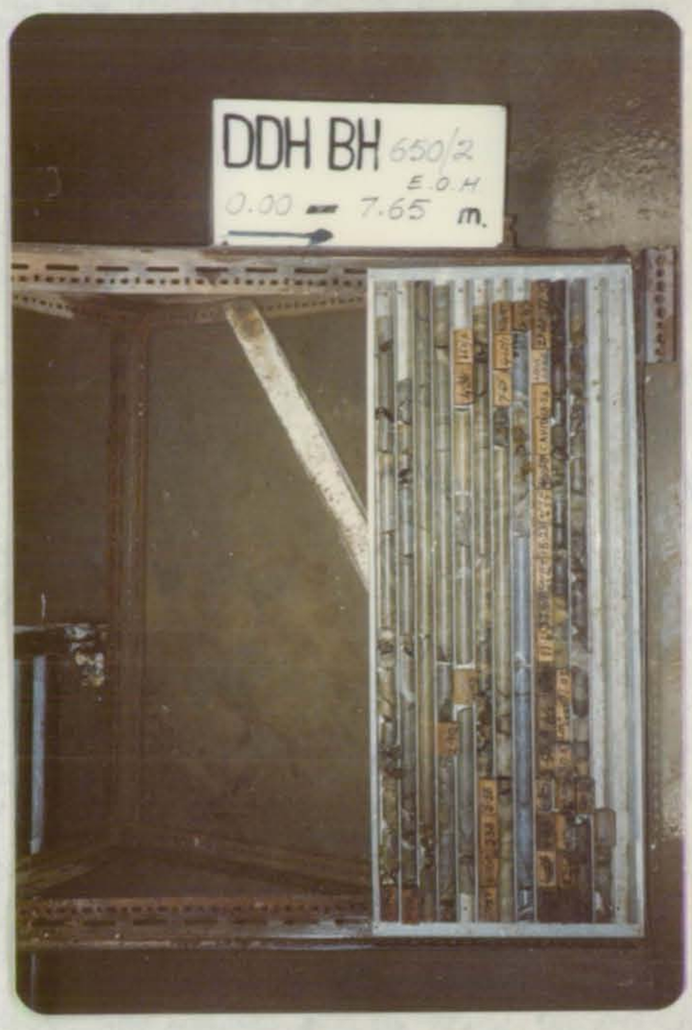
GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B) 650/2

LAB.	K.I.S.		LAB.	KIS 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 2015	0.92	0.04	BH 3212	1.00		BH 3213	1.10		BH 3214	1.04		


DDH BH 6592
1140 - 2015 m.
E.O.H.



continued next page also →
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GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 650/1

PLANNING

Proposer: S.G. Brown — Depth: 5m

Location: N62 drive 'B' lens stope.

Purpose of hole: To test for ore west of present stope.

Co-ordinates: 10388 E 10650 N

Inclination: Horizontal — Magnetic

Bearing: 270° Grid — Target depth:

Target: E N

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

SURVEY

Survey Co-ords: E N

Survey bearing: 294°52' Grid — Magnetic

Surveyed in by: — Date:

Actual Co-ords: 10389.0 E 10652.1 N

R.L. of collar: 1004.13 — Inclination of hole: -0°55'

Picked up by : R.J.H. — Date: 4-4-75

SUMMARY

Logged by : S.G. Brown.

Results:

DRILLING

Driller/Contractor: Geopeko.

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

Casing: Size : NIL

Depth :

Core: Size : EI7

Depth : 4.36

Wedge Runoff:

Wedge placed: NIL — Depth:

Proposed by : — Approved by:

Reason:

Extension: NIL

Reason for termination: Hole reached planned depth - in weakly mineralised ch. — Final depth:

Condition of hole on completion:

Casing : NIL

Cemented : No.

Bore hole survey: No.

Water:

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 650/1

SAMPLE No.	DEPTH (METRES)				ELEMENTS					COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo				
No Samples.										

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. 650/1

Survey method :

Final depth :

Casing depth :

Depth surveyed to :

Date surveyed :

Surveyed by :

Checked by :

DEPTH (m)	Bearing		Inclination		True Vertical Depth (m)	Co-oridinates
	Grid	Mag.	Read	Corrected		
No Survey.						

REMARKS:

GEOPEKC LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 650/1

Depth Interval (metres)	Rock Type	Fract-ures/m.	Joint Angle (w.r.t. L.A.O.C.)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.	% Core Reco-very	R.Q.D.	Remarks (weathering)
0 - 4.36	ch	11		chlorite @ 3.00		94	54	Core is broken to 0.40m.

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 650/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 1.00	1.00	0.85	85
2.90	1.90	1.94	102
4.03	1.13	0.92	81
4.36	0.33	0.37	112

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 650/1

0 - 4.36m	MARBLE

Mainly a fine grey banded marble with only very minor pyroxene and garnet present in it.

Between 2.70 - 3.00m is a small band of garnet skarn with moderate scheelite.

This is more normal marble rather than the disturbed mineralized material mined in the N62 drive.

Banding at 2m is at 23° L.C.A.
at 4m is at 30° "

E.O.H.


DDH BH650/1
0.00-4.36 m.
E.O.H.