

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 635/9

PLANNING PROPOSER: R. E. Sandell Davies DEPTH: 30 m
LOCATION: K65 Drive
PURPOSE OF HOLE: Define C West
PROPOSED CO-ORDS: 40 333 E 10 637.5 N
INCLINATION: +80°
BEARING: 090° °GRID °MAG
TARGET: E N
DEPTH:
CHECKED BY: T. Potter DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: 85° 34' °GRID 57° 34' °MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40 333.1 E 10 638.4 N
R.L. OF COLLAR: 939.0
INCLINATION OF HOLE: +79° 30'
PICKED UP BY: B. Lennon DATE: 4/9/80

SUMMARY LOGGED BY:
RESULTS: 0.0 - 3.0 m 3 m @ 0.65
28.0 - 30.0 m 2 m @ 0.36

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 635/9

Surveyed method: Multishot
 Final depth: 33.30 m
 Casing depth: Nil

Depth surveyed to: 33.30 m
 Date surveyed: 10/9/80
 Surveyed by: R. Drake
 Checked by: B Schneiders

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.			
5 m	86°	58°	10°	+80°			
15 m	86°	58°	10° 15'	+79° 45'			
25 m	85° 50'	57° 30'	10° 15'	+79° 45'			
33.3	85°	57°	10°	+80°			
EOH							

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 635/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 1.0 m	1.0	1.0	100
1.0 - 3.2	2.2	2.2	100
3.2 - 5.6	2.4	2.4	100
5.6 - 8.0	2.4	2.4	100
8.0 - 10.7	2.7	2.7	100
10.7 - 12.0	1.3	1.3	100
12.0 - 15.0	3.0	3.0	100
15.0 - 17.4	2.4	2.4	100
17.4 - 20.4	3.0	3.0	100
20.4 - 23.2	2.8	2.8	100
23.2 - 26.0	2.8	2.8	100
26.0 - 28.8	2.8	2.8	100
28.8 - 32.0	1.2	1.2	100
32.0 - 33.3	1.3	1.3	100

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 635/9

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W R T/ L A Q C)	% CORE RECO- VERY	R Q D	REMARKS (WEATHERING)
0.0 - 2.5	gh						50	
2.5 - 5.3	ch						84	
5.3 - 7.4	gh						Nil	
7.4 - 11.0	gph						60	
11.0 - 18.3	bph						82	
18.3 - 31.95	pgh						76	
31.95 - 33.30	bph						39	
EOH 33.30 m								

FURTHER DATA & REMARKS

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

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 635/9

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 8544	0	1	1.0	1.0	0.77			
45	1	2	"	"	0.77			
46	2	3	"	"	0.40			
47	5	6	"	"	0.09			
48	6	7	"	"	0.19			
49	7	8	"	"	0.01			
50	28	29	"	"	0.42			
51	29	30	"	"	0.30			
52	30	31	"	"	0.09			
53	31	32	"	"	0.13			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 635/9

0.0 - 2.5 m GARNET HORNFELS

Dark brown garnet hornfels showing some degree of leaching.

Mineralisation is uniform moderate and fine grained. 2.0 - 2.1
Broken and crumbly ground.

2.5 - 5.3 MARBLE

Pure marble with vague bedding at 40° to core axis. Both top
and bottom contact is distinct.

Marble is slightly ironstained.

5.3 - 7.4 GARNET HORNFELS

Garnet hornfels very strongly weathered and slightly ironstained.
Rock is moderately to strongly crumbly is texture.

Mineralisation is very weak with moderate mineralisation at
6.05 to 6.3 m

7.4 - 11.0 GARNET PYROXENE HORNFELS

Rock is leached and weathered and slightly ironstained but the core
is solid and not crumbly as above.

Mineralisation is shown as very sparse scheelite crystals

9.3 Broken ground at 30° to core axis.
10.2 Broken ground at 60° to axis.
10.8 - 11.0 Broken ground to 10°.

11.0 - 18.3 BIOTITE PYROXENE HORNFELS

Unit is podded with calcite and pyroxene

11.0 - 12.3 m Biotite rich
12.3 - 15.3 m Pyroxene rich
15.3 - 16.3 m Biotite rich

Contact with garnet hornfels has broken core and contact with
pyroxene garnet hornfels has a 30 cm calcite unit.

18.3 - 31.95 PYROXENE GARNET HORNFELS

Pyroxene garnet hornfels with very few vague pods of calcite.
Colour changes gradually from a dark green to a green brown.

Mineralisation is sparse with the odd fine grained crystal or
aggregate the best grade is from 28.9 to 31.95.

19.0 major joint to 10°
23.2 " " " "

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 635/9

31.95 - 33.30 m BIOTITE PYROXENE HORNFELS

Predominantly a biotite rock with zones of pyroxene and few calcite pods showing pyroxene and garnet development

32.2 - 32.7 Broken core with shear faces at 10° to core axis.

EOH 33.30 m

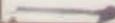
DDH BH 635/9

0.00 — 14.24 m.



DDH BH 635/9

14.24 — 28.35 m.



DDH BH 635/9

28.35 — 33.30 m.
E.O.H



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 635/8

PLANNING PROPOSER: R. E. S. Davies DEPTH: 30 m
LOCATION: K65 Drive
PURPOSE OF HOLE: Define C West
PROPOSED CO-ORDS: 40333 E 10637.5 N
INCLINATION: +70°
BEARING: 270° °GRID °MAG
TARGET: E N
DEPTH: T. Potter
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: 40 332.1 E 10 638.1 N
SURVEYED BEARING: 285° 51' °GRID °MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40 332.1 E 10 638.1 N
R.L. OF COLLAR: 939.01
INCLINATION OF HOLE: +78°
PICKED UP BY: B Lennon DATE: 29/8/80

SUMMARY LOGGED BY: T. Potter
RESULTS: 0.0 - 8.0 m 8 m @ 0.67%
16.0 - 30.0 m 14 m @ 0.54%

DRILLING DATE COMMENCED: 3/9/80 DATE TERMINATED: 3/9/80
DRILLER/CONTRACTOR: K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE:
DEPTH:
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 31.2 m
REASON FOR TERMINATION:
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY:
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 635/8

Surveyed method: Multishot
 Final depth: 31.20 m
 Casing depth: Nil

Depth surveyed to: 31.20 m
 Date surveyed: 10/9/80
 Surveyed by: R. Drake
 Checked by: B. Schneiders

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.			
5 m	286°	258°	12°	+78°			
15 m	286°	258°	11° 45'	+78° 15'			
25 m	286°	258°	11° 15'	+78° 45'			
31.2	285°	257°	11° 30'	+78° 30'			
EOH							

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 635/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 1.1 m	1.1	1.1	100
1.1 - 2.0	0.9	0.9	100
2.0 - 3.6	1.6	1.6	100
3.6 - 6.6	3.0	3.0	100
6.0 - 7.9	1.3	1.3	100
7.9 - 9.7	1.8	1.8	100
9.7 - 11.8	2.1	2.1	100
11.8 - 13.9	2.1	2.1	100
13.9 - 16.0	2.1	2.1	100
16.0 - 18.2	2.2	2.2	100
18.2 - 20.2	2.0	2.0	100
20.2 - 22.2	2.0	2.0	100
22.2 - 25.0	2.8	2.8	100
25.0 - 27.8	2.8	2.8	100
27.8 - 30.35	2.55	2.55	100
30.35 - 31.2	0.85	0.85	100
EOH 31.2 m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 635/8

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W R T/ L A Q C)	% CORE RECO- VERY	R Q D	REMARKS (WEATHERING)
0.0 - 8.28	gh					87		
8.28 - 16.00	bph					87		
16.00 - 30.35	pgh					86		

FURTHER DATA & REMARKS

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

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 635/8

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 8507	0	1	1.0	1.0	0.39			
08	1	2	"	"	0.57			
09	2	3	"	"	0.77			
10	3	4	"	"	0.57			
11	4	5	"	"	0.79			
12	5	6	"	"	0.77			8 m @ 0.67%
13	6	7	"	"	0.70			
14	7	8	"	"	0.81			
15	8	9	"	"	0.23			
16	15	16	"	"	0.02			
17	16	17	"	"	0.31			
18	17	18	"	"	0.43			
19	18	19	"	"	0.92			
20	19	20	"	"	0.20			
21	20	21	"	"	1.72			
22	21	22	"	"	0.22			14 m @ 0.54%
23	22	23	"	"	0.18			
24	23	24	"	"	0.29			
25	24	25	"	"	0.44			
26	25	26	"	"	1.18			
27	26	27	"	"	0.64			
28	27	28	"	"	0.14			
29	28	29	"	"	0.52			
30	29	30	"	"	0.33			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 635/8

0.0 - 8.28 m GARNET HORNFELS

Fine grained garnet hornfels with a reasonable amount of pyroxene present. Mineralisation is fine grained and evenly distributed. Strong mineralisation from 0.0 - 7.8 m and moderate 7.8 to 8.28. At 7.8 m contact is sharp and distinct although there is no change in rock type.

8.28 - 16.0 BIOTITE PYROXENE HORNFELS

Typical biotite pyroxene hornfels; numerous calcite and pyroxene pods and clots. Most of the pods show iron-strained rims.

9.5 - 12.3 richer in pyroxene; bedding about 70° to core axis.

16.0 - 30.35 PYROXENE GARNET HORNFELS

Typical pyroxene garnet hornfels (pods) although the pods are small and not very frequent and with diffused edges.

22.4 - 23.2 leached and softer rock with minor broken core and thin calcite veins. Possibly a fault.

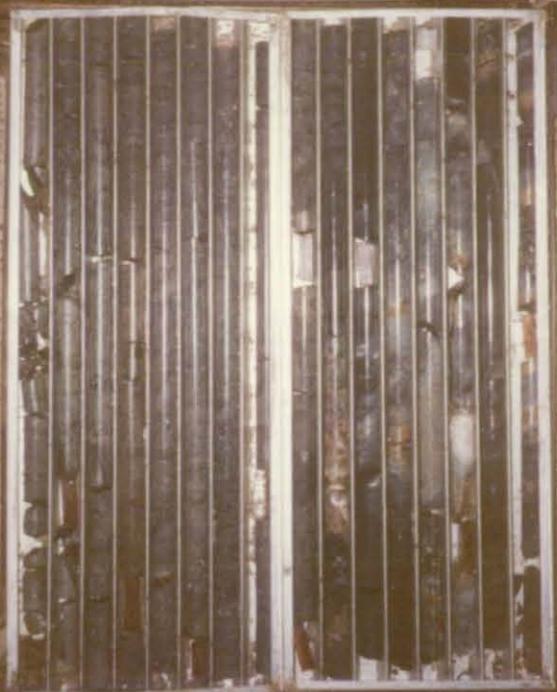
29.35 - 29.5 minor broken core showing shearing sub-parallel to core axis. Mineralisation is weak with scheelite occurring as the isolated crystal or as aggregates. The best grade is 20.40 - 20.70 m.

30.35 - 31.2 BIOTITE PYROXENE HORNFELS

EOH 31.2 m

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0.00 — 12.30 m.



DDH BH 635/8

14.30 — 29.00 m.



DDH BH 635/8

E.O.H.
29.00 — 30.35 m.



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 635/7

PLANNING PROPOSER: T. Potter DEPTH: 25 m
LOCATION: A Lens Outcrop
PURPOSE OF HOLE: Structure & Grade
PROPOSED CO-ORDS: 40 354 E 10 637 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: 40 354.12 E 10 636.92 N
R.L. OF COLLAR: 1116.99
INCLINATION OF HOLE: - -75°
PICKED UP BY: B Lennon DATE: 7/8/80

SUMMARY LOGGED BY:
RESULTS: A Lens
16.5 - 21.0 m 3.5 m @ 0.78%

DRILLING DATE COMMENCED: 13/7/80 DATE TERMINATED: 15/7/80
DRILLER/CONTRACTOR: Geopeko - Jacro Drill
(AUGER:) SIZE:
DEPTH: 21.0 m Auger 0.0 - 21.0 m
Diam 21.0 - 31.3 m
CORE: SIZE: AQ
DEPTH: 31.3
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 31.3 m
REASON FOR TERMINATION: Passed through orebody
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: No Survey
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 635/7

Surveyed method: No survey
Final depth:
Casing depth:

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

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.			
0.0				-75°		40 354.12 E	
31.3						10 636.92 N	
EOH 31.3 m							

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 635/7

Auger Drilling 0.0 - 21.0 m
Diamond Drilling 21.0 - 31.3 m

0.0 - 21.0 m WEATHERED ROCK

<u>Sample No.</u>	<u>Depth</u>	<u>Assay</u> <u>WO₃</u>	<u>Geology</u>
KF 343	0.0 - 1.5 m	0.11	Very pale orange-brown clay
4	1.5 - 3.0	0.16	"
5	3.0 - 4.5	0.27	"
6	4.5 - 6.0	0.19	Yellow-brown clay
7	6.0 - 7.5	0.22	"
8	7.5 - 9.0	0.14	Very pale yellow-brown clay
9	9.0 - 10.5	0.22	"
350	10.5 - 12.0	0.15	"
1	12.0 - 13.5	0.15	Kahki brown clay
2	13.5 - 15.0	0.19	"
3	15.0 - 16.5	0.24	"
4	16.5 - 18.0	0.39	"
5	18.0 - 19.5	0.84	"
356	19.5 - 21.0	1.10	"

21.0 - 31.3 FRESH ROCK

21.0 - 23.1 m 2.1 drilled 0.1 m recovered
0.0 - 0.1 quartz? pebbles.
23.1 - 26.1 3 m drilled 0.2 m recovered
0.0 - 0.12 quartz? pebbles
0.12 - 0.2 black rock containing biotite maybe
volcanics
26.1 - 29.1 3 m drilled 1.22 recovered
0.0 - 1.0 black biotite rock as above maybe
volcanics
1.0 - 1.22 weathered leached rock showing purple
schistose biotite maybe volcanics

SHEARED VOLCANIC

29.1 - 31.3 2.2 m drilled-1.07 m recovered
0.0 - 1.9 m leached rock showing purple schistose
biotite and sheared lenses of felspar.
1.9 - 2.2 m fresh volcanics slightly sheared.

No mineralisation in diamond core.

DDH BH 635/7
21.0 — 31.3 E.O.H.
← M.



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 635/6

PLANNING PROPOSER: R. E. Sandell Davies DEPTH: 30 m
LOCATION: P64 Raise Bore Cuddy
PURPOSE OF HOLE: Define upper D Lens
PROPOSED CO-ORDS: 40385 E 10637.5 N
INCLINATION: +15°
BEARING: 270° °GRID °MAG
TARGET: E N
DEPTH:
CHECKED BY: R. H. Davies DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: 268° 25' °GRID °MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 383.7 E N
R.L. OF COLLAR: 914.3
INCLINATION OF HOLE: +20°-
PICKED UP BY: S. J. S. DATE: 12/2/80

SUMMARY LOGGED BY: R. E. Sandell Davies
RESULTS: 0 - 3 m, 3 m @ 1.36% WO₃
6 - 8 m, 2 m @ 0.65% WO₃

DRILLING DATE COMMENCED: 11/2/80 DATE TERMINATED: 13/2/80
DRILLER/CONTRACTOR: Joe Penna/KIS
CASING: SIZE:
DEPTH:
CORE: SIZE: BQ
DEPTH: 33 m
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 33 m
REASON FOR TERMINATION: Beyond Mineralised Zone
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: Not Surveyed
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 635/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.6 m	2.6	2.4	92
2.6 - 4.4	1.8	1.8	100
4.4 - 6.3	1.9	1.9	100
6.3 - 9.3	3.0	3.0	100
9.3 - 12.3	3.0	3.0	100
12.3 - 15.0	2.7	2.7	100
15.0 - 17.0	2.0	1.9	95
17.0 - 18.0	1.0	1.0	100
18.0 - 18.3	0.3	0.25	83
18.3 - 21.3	3.0	3.0	100
21.3 - 24.3	3.0	3.0	100
24.3 - 27.3	3.0	3.0	100
27.3 - 32.0	4.7	4.7	100
23.0 - 33.0	1.0	0.9	90
 EOH 33.0 m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 635/6

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 7374	0	1	1.0	1.0	0.91	0.01		
75	1	2	"	"	2.17	0.04		
76	2	3	"	"	1.00	0.01		
77	3	4	"	"	0.09	<0.01		
78	4	5	"	"	<0.01	<0.01		
79	5	6	"	"	<0.01	0.01		
80	6	7	"	"	0.98	0.01		
81	7	8	"	"	0.31	0.01		
82	8	9	"	"	<0.01	<0.01		
83	9	10	"	"	<0.01	<0.01		
84	10	11	"	"	<0.01	<0.01		
85	11	12	"	"	0.02	<0.01		
86	12	13	"	"	<0.01	<0.01		
87	18	19	"	"	<0.01	0.01		
88	19	20	"	"	<0.01	0.01		
89	20	21	"	"	0.25	0.01		
90	21	22	"	"	0.44	0.01		
91	22	23	"	"	0.03	0.01		
92	23	24	"	"	<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 635/6

0.0 - 14.5 m MINERALISED BANDED FOOTWALL BEDS

Typical Banded Footwall Beds sequence consisting mostly of marble with subsidiary biotite hornfels and garnet hornfels. Well mineralised garnet hornfels beds are present from 0.0 - 3.1 m, 6.3 - 8.0 m and 10.7 - 11.3 m

Bedding is at 60° to LCA @ 4.6 m
60° 7.1 m
42° 9.5 m
43° 13.7 m

14.5 - 17.4 APLITE

Generally has a dark matrix with large white phenocrysts of feldspar in the centre of the aplite. The upper and lower margins are fine grained.

17.4 - 19.2 BIOTITE HORNFELS

Black fine grained, but with some fractures.

19.2 - 22.6 GARNET PYROXENE HORNFELS

This unit has a pale green to brown colour and is a partly replaced impure marble. Low grade scheelite is disseminated through it.

22.6 - 32.3 BIOTITE HORNFELS

Dark grey, fine grained, generally well bedded.

Bedding is at 26° to LCA @ 25.2 m
30° 30.7 m

32.3 - 33.0 WESTERN FAULT

This core is totally broken up, and consists of rubble and clay.

EOH 33.0 m

DDH BH 635/6
0.00 — 14.92 m.



DDH BH 635/6
14.92 — 29.66 m.



DDH BH 635/6
29.66 — 33.00 m.
E.O.H.



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 635/5

PLANNING PROPOSER: R. E. Sandell Davies DEPTH: 25 m
LOCATION: P64 Raise Bore Cuddy
PURPOSE OF HOLE: Define D Lens
PROPOSED CO-ORDS: 40386 E 10637.5 N
INCLINATION: -33°
BEARING: 090° GRID MAG
TARGET: E N
DEPTH:
CHECKED BY: T. Potter DATE: 4/2/80

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: GRID MAG
SURVEYED IN BY: $91^{\circ} 40'$ DATE:
ACTUAL CO-ORDS: 40387.5 E 10637.2 N
R.L. OF COLLAR: 911.83
INCLINATION OF HOLE: $-31^{\circ} 20'$
PICKED UP BY: B. Lennon DATE: 6/2/80

SUMMARY LOGGED BY: R. E. Sandell Davies
RESULTS: 0 - 7 m, 7 m @ 1.06% WO_3

DRILLING DATE COMMENCED: 5/2/80 DATE TERMINATED: 8/2/80
DRILLER/CONTRACTOR: Joe Penna/KIS
CASING: SIZE:
DEPTH:
CORE: SIZE: BQ
DEPTH: 26.4 m
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 26.4 m
REASON FOR TERMINATION: In Garnite
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: Not Survey
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 635/5

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.2 m	3.2	2.6	81
3.2 - 4.8	1.6	1.6	100
4.8 - 6.6	1.8	1.7	94
6.6 - 8.6	2.0	2.0	100
8.6 - 10.6	2.0	2.0	100
10.6 - 13.6	3.0	3.0	100
13.6 - 16.6	3.0	3.0	100
16.6 - 19.1	2.5	2.5	100
19.1 - 21.0	1.9	1.9	100
21.0 - 23.1	2.1	1.9	90
23.1 - 25.0	1.9	1.9	100
25.0 - 26.4	1.4	1.3	100
 EOH 26.4 m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 635/5

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 7363	0	1	1.0	1.0	3.20	0.06		
64	1	2	"	"	1.25	0.03		
65	2	3	"	"	0.05	0.01		
66	3	4	"	"	0.53	0.02		
67	4	5	"	"	0.50	0.01		
68	5	6	"	"	1.22	0.04		
69	6	7	"	"	0.69	0.02		
70	7	8	"	"	< 0.01	< 0.01		
71	13	14	"	"	< 0.01	0.02		
72	14	15	"	"	0.01	< 0.01		
73	15	16	"	"	< 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 635/5

0.0 - 6.55 m MINERALISED BANDED FOOTWALL BEDS

Well mineralised Banded Footwall Beds, garnet hornfels comprising about 60% of the core. It is interbedded with biotite hornfels and marble.

Bedding is at 57° to LCA @ 2 m
Bedding " " 57° " " " 5 m

6.55 - 20.2 BANDED FOOTWALL BEDS

Very well bedded Banded Footwall Beds, mostly marble to 9 m, biotite hornfels, marble and some pyroxene hornfels to 16 m and dominantly biotite hornfels below 16 m. A small bed of mineralised garnet hornfels occur from 14.7 m to 14.25 m.

Bedding is at 50° to LCA @ 9.5 m
Bedding 60° 14.1 m
Bedding 84° 18.1 m

20.2 - 26.4 ADAMELLITE

To 23.1 m the core is a fine grained chill zone with a speckled grey appearance. Mixed with it, are sections consisting of large Euhedral (up to 2 cm) orthoclase crystals in a quartz matrix.

Below 23.1 m the core is typical medium grained adamellite.

EOH 26.4 m

DDH BH 635/5

0.00 — 15.72 m.



DDH BH 635/5

E.O.H.
15.72 — 26.40 m.



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 635/4

PLANNING PROPOSER: R. E. Sandell Davies DEPTH: 25 m
LOCATION: P64 Raise Bore Cuddy
PURPOSE OF HOLE: Define D Lens
PROPOSED CO-ORDS: 40386 E 10637,5 N
INCLINATION: -90°
BEARING: - ° GRID ° MAG
TARGET: E N
DEPTH:
CHECKED BY: T. Potter DATE: 23/1/80

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: ° GRID ° MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40386,4 E 10637,2 N
R.L. OF COLLAR: 911,8
INCLINATION OF HOLE: -90°
PICKED UP BY: B. Lennon DATE: 31/1/80

SUMMARY LOGGED BY: R. E. Sandell Davies
RESULTS: 0 - 13 m, 13 m @ 0.79% WO₃
13 - 17 m, 2 m @ 1.07% WO₃

DRILLING DATE COMMENCED: 31/1/80 DATE TERMINATED: 4/2/80
DRILLER/CONTRACTOR: Joe Penna/KIS
CASING: SIZE:
DEPTH:
CORE: SIZE: BQ
DEPTH:
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 30.4 m
REASON FOR TERMINATION: In Adamellite
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: Multishot
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 635/4

Surveyed method: Multishot
Final depth: 30.40 m
Casing depth: 1 m

Depth surveyed to: 30.40 m
Date surveyed: 4.2.80
Surveyed by: L. Denby & R. Drake
Checked by:

Bearing			Inclination		True Vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corr.		N	E
7.00 m	90°	62°	1°	-89°	7.00	0.0	.12
16.00	90°	62°	1°	-89°	16.00	0.0	.28
30.40	68°	40°	1°	-89°	30.40	0.09	.51

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 635/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.2 m	3.2	2.7	84
3.2 - 4.8	1.6	1.6	100
4.8 - 6.4	1.6	1.5	94
6.4 - 9.4	3.0	3.0	100
9.4 - 11.6	2.2	2.3	105
11.6 - 14.4	2.8	2.7	96
14.4 - 16.3	1.9	1.9	100
16.3 - 19.3	3.0	3.0	100
19.3 - 21.6	2.3	2.3	100
21.6 - 23.0	1.4	1.3	93
23.0 - 25.9	2.9	2.8	97
25.9 - 28.9	3.0	3.0	100
28.9 - 30.4	1.5	1.5	100
EOH 30.4 m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 635/4

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 7536	0	1	1.0	1.0	1.28	0.03		
37	1	2	"	"	1.65	0.02		
38	2	3	"	"	0.58	0.01		
39	3	4	"	"	0.44	0.02		
40	4	5	"	"	<0.01	0.01		
41	5	6	"	"	0.42	0.02		
42	6	7	"	"	1.05	0.02		
43	7	8	"	"	0.97	0.02		
44	8	9	"	"	0.79	0.02		
45	9	10	"	"	1.21	0.03		
46	10	11	"	"	0.80	0.02		
47	11	12	"	"	0.65	0.01		
48	12	13	"	"	0.43	0.01		
49	13	14	"	"	0.17	0.01		
50	14	15	"	"	0.17	0.01		
51	15	16	"	"	0.52	0.01		
52	16	17	"	"	1.61	0.02		
53	17	18	"	"	<0.01	<0.01		
54	18	19	"	"	<0.01	<0.01		
55	19	20	"	"	<0.10	<0.01		
56	20	21	"	"	0.01	0.01		
57	21	22	"	"	<0.01	<0.01		
58	22	23	"	"	0.01	<0.01		
59	23	24	"	"	0.01	0.01		
60	24	25	"	"	0.15	0.02		
61	25	26	"	"	0.03	0.01		
62	26	27	"	"	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 635/4

0.0 - 26.3 m MINERALISED BANDED FOOTWALL BEDS

Well bedded Banded Footwall Beds, consisting dominantly of garnet hornfels, pyroxene hornfels and minor marble.

Mineralisation is confined to beds of garnet hornfels which occur @

0.0 - 3.6 m
4.9 - 5.5 m
5.8 - 11.3 m
12.5 - 13.2 m
13.8 - 17.0 m
19.7 - 19.9 m
24.9 - 25.3 m

Bedding is at 13° to LCA @ 4 m
38° 6.4 m
46° 10.1 m
52° 13.1 m
54° 16.4 m
41° 21.3 m
43° 25.8 m

26.3 - 30.4 ADAMELLITE

Initially fine grained, later becomes coarse grained. Overall pink colour.

EOH 30.4 m



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 635/3

PLANNING PROPOSER: R. E. Sandell Davies DEPTH: 25 m
LOCATION: P64 D Lens access
PURPOSE OF HOLE: Define D Lens
PROPOSED CO-ORDS: 40375 E 10635 N
INCLINATION: -76°
BEARING: 270° GRID °MAG
TARGET: 40370 E 10635 N
DEPTH: 10 m
CHECKED BY: T. Potter DATE: 14/1/80

SURVEY SURVEY CO-ORDS: 40373.2 E 10634.7 N
SURVEYED BEARING: 268° 40' GRID °MAG
SURVEYED IN BY: B. Lennon DATE: 23/1/80
ACTUAL CO-ORDS: 40373.2 E 10634.7 N
R.L. OF COLLAR: 912.24
INCLINATION OF HOLE: -74° 12'
PICKED UP BY: B. Lennon DATE: 24/1/80

SUMMARY LOGGED BY: R. E. Sandell Davies
RESULTS: 0 - 2 m, 2 m @ 1.69% WO₃
4 - 7 m, 3 m @ 1.01% WO₃
8 - 10 m, 2 m @ 0.72% WO₃
TOTAL 0 - 10 m, 10m @ 0.79% WO₃

DRILLING DATE COMMENCED: 23/1/80 DATE TERMINATED: 29/1/80
DRILLER/CONTRACTOR: Joe Penna/K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE: BQ
DEPTH: 25.5
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 25.5 m
REASON FOR TERMINATION: In Adamellite
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: Not Surveyed
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 635/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.1 m	3.1	2.7	100
3.1 - 4.5	1.4	1.4	100
4.5 - 6.5	2.0	2.0	100
6.5 - 8.0	1.5	1.5	100
8.0 - 9.5	1.5	1.4	93
9.5 - 11.0	1.5	1.5	100
11.0 - 12.5	1.5	1.5	100
12.5 - 15.5	3.0	3.0	100
15.5 - 18.5	3.0	3.0	100
18.5 - 21.5	3.0	3.0	100
21.5 - 23.5	2.0	2.0	100
23.5 - 25.5	2.0	2.0	100
EOH 25.5 m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 635/3

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 7508	.0	1	1.0	1.0	2.70	0.06		
09	1	2	"	"	0.68	0.03		
10	2	3	"	"	<0.01	0.01		
11	3	4	"	"	<0.01	0.01		
12	4	5	"	"	0.44	0.01		
13	5	6	"	"	1.35	0.03		
14	6	7	"	"	1.23	0.02		
15	7	8	"	"	0.01	0.01		
16	8	9	"	"	0.38	0.01		
17	9	10	"	"	1.05	0.02		
18	10	11	"	"	<0.01	<0.01		
19	11	12	"	"	<0.01	<0.01		
20	12	13	"	"	<0.01	<0.01		
21	13	14	"	"	<0.01	<0.01		
22	14	15	"	"	0.02	<0.01		
23	15	16	"	"	<0.01	0.01		
24	16	17	"	"	<0.01	0.02		
25	17	18	"	"	<0.01	<0.01		
26	18	19	"	"	0.01	0.01		
27	19	20	"	"	0.01	0.01		
28	20	21	"	"	<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 635/3

0.0 - 21.9 m BANDED FOOTWALL BEDS

Typical well bedded Banded Footwall Beds, the units are generally from 2.0 - 20.0 cm thick, rarely up to 40 cm. The dominant rock types are biotite hornfels, marble and garnet hornfels with minor pyroxene hornfels.

High grade ore occurs from: 0.0 - 1.5 m, 2.84 - 2.87m, 4.55 - 4.78m, 5.1 - 5.6 m, 6.0 - 6.5 m, 6.8 - 7.0 m, 8.3 - 8.8 m, 9.6 - 9.9 m.

Only localised patches of low grade scheelite occurs below 10 m.

Bedding is at	44°	to LCA @	2.8 m
Bedding	60°		5.8 m
Bedding	58°		10.3 m
Bedding	63°		14.5 m
Bedding	56°		17.6 m
Bedding	61°		21.5 m

21.9 - 25.5

ADAMELLITE

Typical coarse grained pink Bold Head adamellite. Fine grained in the initial 50 cm from the contact.

EOH 25,5 m

DDH BH 635/3

0.00 — 15.39 m.



DDH BH 635/3

15.39 — 25.50 m.
E.O.H.



GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B. 635/2

PLANNING

Proposer: S. Grieve Brown

Depth: 110m

Location:

Purpose of hole: To test C₁ C₂ & D lenses.

Co-ordinates: 40375.0 E 10637.5

Inclination: -77°

Bearing Grid

Target: E

Approved by: M. C. R.

N

Magnetic:

Target Depth:

N

Date: 18-8-77

SURVEY

Survey Co-ords: E

Survey bearing: 77° 31' Grid

Surveyed in by:

Actual Co-ords: 40 374.44 E 10 637.88

R.L. of Collar: 1003.98

Picked up by: A. Grigulis

N

Magnetic:

Date:

N

Inclination of Hole: -78° 48'

Date: 29-9-77

SUMMARY

Logged by: G. Brown / *D. Cowan*

Results: 39-44m 5m a) 0.87% WO₃ C₁, 56 - 59m 3m a) 0.99% WO₃
C₂ upper, 92-103m 11m a) 0.81% WO₃ D lens.

DRILLING

Driller/Contractor:

Date commenced: 2-9-77

Date terminated: 13-9-77

Casing: Size: -

Depth: -

Core: Size: 46TT

Depth: 111.4

Wedge Runoff:

Wedge placed: Nil

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Entered Admelite

Condition of hole on completion:

Final depth: 111.4

Casing: Nil

Cemented: No

Bore hole survey: Multishot

Water: No

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 635/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 6.40m	6.40	5.79	
9.40m	3.00	2.96	99
12.40	3.00	3.00	100
15.40	3.00	3.00	100
20.40	5.00	4.88	98
23.40	3.00	2.84	95
26.40	3.00	2.93	98
29.40	3.00	2.98	99
32.40	3.00	2.73	91
35.40	3.00	2.98	99
38.40	3.00	2.97	99
41.40	3.00	2.98	99
44.40	3.00	3.03	101
44.40	3.00	3.02	101
47.40	3.00	3.01	100
50.40	3.00	2.00	97
53.40	3.00	2.922	97
56.40	3.00	2.928	99
59.40	3.00	3.05	102
62.40 - 65.40	3.00	2.58	99
68.40	3.00	2.91	97
71.40	3.00	2.98	99
74.40	3.00	2.98	99
77.40	3.00	2.91	97
80.40	3.00	3.02	101
83.40	3.00	2.98	99
86.50	3.10	3.00	100
89.40	3.09	3.09	100
92.40	2.90	2.87	99
95.40	3.00	2.94	98
100.40	3.00	3.01	100
103.40	5.00	4.34	99
105.40	3.00	2.87	96
108.40	2.00	1.96	98
111.40 EOH	3.00	3.00	100
			100

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 635/2

Survey method: Multishot Camera

Final depth : 111.4m

Casing depth : 1m

Depth surveyed to: 111.4

Date surveyed: 13.9.77

Surveyed by : L. Denby

Checked by : G. Brown

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
26	075	047	11.25	-78.75	25.47	3.51	3.87
54	072	044	11	-79	52.94	7.31	7.70
82	069	041	11	-79	80.42	11.25	11.27
111.4	070	042	11.5	-78.5	109.23	15.67	15.11

REMARKS:

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 635/2

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
BH 5185	37	38	1.0	1.0	<0.01	<0.01	
6	38	39	"	"	0.12	<0.01	
7	39	40	"	"	0.27	<0.01	↓
8	40	41	"	"	0.65	0.01	5m
9	41	42	"	"	2.06	0.06	a)
90	42	43	"	"	1.02	0.03	0.87%
1	43	44	"	"	0.36	0.01	↑
2	44	45	"	"	0.14	<0.01	
3	45	46	"	"	0.22	0.01	
4	46	47	"	"	0.11	<0.01	
5	47	48	"	"	0.63	0.01	
6	48	49	"	"	0.12	0.01	
7	49	50	"	"	0.15	<0.01	
8	50	51	"	"	<0.01	<0.01	
9	51	52	"	"	<0.01	<0.01	
5200	52	53	"	"	<0.01	<0.01	
1	53	54	"	"	0.05	<0.01	
2	54	55	"	"	0.22	<0.01	
3	55	56	"	"	0.01	<0.01	
4	56	57	"	"	0.93	0.04	↓3m
5	57	58	"	"	1.73	0.09	a)
BH 5206	58	59	"	"	0.32	<0.01	0.99%
5237	62	63	1.0	1.0	<0.01	<0.01	↑
38	63	64	"	"	0.21	"	
39	64	65	"	"	0.07	"	
40	65	66	"	"	0.19	"	
BH 5241	66	67	"	"	<0.01	"	
BH 5242	87	88	1.0	1.0	<0.01	<0.01	
3	88	89	"	"	0.21	"	
4	89	90	"	"	0.47	0.01	
5	90	91	"	"	0.15	<0.01	
6	91	92	"	"	0.20	"	
7	92	93	"	"	0.38	"	↓
8	93	94	"	"	1.41	0.02	
9	94	95	"	"	0.68	0.01	
50	95	96	"	"	0.75	<0.01	
1	96	97	"	"	1.01	0.02	11m
2	97	98	"	"	0.75	0.01	a)
3	98	99	"	"	1.40	0.03	0.81%
4	99	100	"	"	0.39	0.01	↑
5	100	101	"	"	0.98	0.02	

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 635/2

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
6	101	102	"	"	0.41	0.01	↑	
7	102	103	"	"	0.73	0.01		
BH 5258	103	104	"	"	0.24	<0.01		
5259	106	107	1.0	1.0	0.92	0.04		

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 635/2

0.50 - 19.61

Marble

A typical B lens grey - black barren marble with well developed bedding.

A ^{small} 20cm zone of mineralized marble occurs right at the start of this hole.

Bedding is at 74° LCA at 5.30m
77° LCA at 8.50m
67° LCA at 15.30m

Over the last 30cm there is a zone of pyroxene rich mineralized marble.

19.61 - 38.62

Biotite pyroxene hornfels

As is normal with this unit there is a small unit of finely banded biotite pyroxene hornfels immediately underlying the B lens marble after which the unit becomes 'blotchy' in appearances.

Large well developed spots are present between 27.6m - 29.99m below which point small pods and fragments begin to be apparent and these increase in number and size to 38.62m.

Two possible faults are located in this unit 23.20m - 24.80m where the core is quite broken and has minor amounts of pug on the joints, and 30.23m - 30.60 where there is quite large amounts of clay and pug as well as brecciated core. One of these faults is probably the I62 fault

38.62 - 38.77

Fault zone

A small 15cm wide fault zone filled with clinohamite and calcite. This fault is at 46° LCA

38.77 - 49.63

Podded pyroxene garnet hornfels

This unit consists of a fine grained pyroxene garnet ground mass with large amounts of calcite present as irregular pods through out. Scheelite mineralization is present throughout but the grade is erratic and only between 40.0m and 43.50m does it appear to be economic.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 635/2

49.63 - 53.30

Biotite pyroxene hornfels

A small unit of podded biotite pyroxene hornfels. This unit is completely barren of scheelite mineralization and is typical of the marker horizon between C₁ and C₂ lenses.

53.30 - 58.21

Pyroxene garnet skarn

Initially the core appears to be a pyroxene garnet hornfels but below about the 56.0m mark it becomes more of a garnet skarn. High grade scheelite occurs in the garnet skarn area and some very minor bismuth is visible at 57.86m.

58.21 - 63.35

Marble

A barren grey white recrystallized marble with well developed bedding apparent through out the core.

Bedding is at 73° LCA at 59.0

63.35 - 67.37

Mineralized banded foot wall beds

Initially this unit is a garnet pyroxene skarn but below 64.20m the banded nature of the unit is quite distinct. The amount of garnet present in this unit decreases rapidly below 65.40m and so does the scheelite content.

Bedding is at 71° LCA at 66.5m

67.37 - 77.72m

Banded biotite pyroxene hornfels

Essentially this is a unit of banded biotite pyroxene hornfels with only minor garnet or calcite present in it except between 74.3m - 76.4m. Where some scheelite is associated with a larger unit of calcite garnet pyroxene hornfels.

Bedding is at 74° LCA at 68.3m

76° LCA at 76.5m

Between 71.43m - 72.81m there is a small aplite (adamellite) dyke

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. E 635/2

77.72 - 87.85m

Adamellite

A unit of typical Bold Head Adamellite with the last one and a half metres of the core containing quite large amounts of pyroxene.

87.85 - 103.01

Mineralized banded footwall beds

A typical banded unit consisting of garnet, calcite, biotite and pyroxene bands.

Scheelite mineralization is associated with the garnet bands and although the mineralization in the bands is high grade the overall grade is dependant on the percentage of garnet bands in any one metre.

Bedding is at 47° LCA at 89.5m
56° LCA at 92.5m
54° LCA at 95.3m
63° LCA at 100.6m
41° LCA at 102.60m

103.01 - 109.37

Banded foot wall beds

Essentially a unit of banded biotite pyroxene hornfels with occasional calcite bands.

Between 105.90 - 106.21 there is a small unit of garnet rich banded foot wall beds containing quite good scheelite mineralization.

Bedding is at 30° LCA at 105.2m
53° LCA at 108.0m

109.37 - 111.4m EOH

Adamellite

Typical Bold Head Adamellite.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 635/2

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		
5189	2.06		5490	1.99		5491	2.27		5492	2.16		B 635/2	
5204	0.93		5587	0.81		5588	1.03		5589	1.02		"	
5243	0.21		5493	<0.01		5494	0.02		5495	0.02		"	
5257	0.73		5590	0.79		5591	1.07		5592	1.05		"	

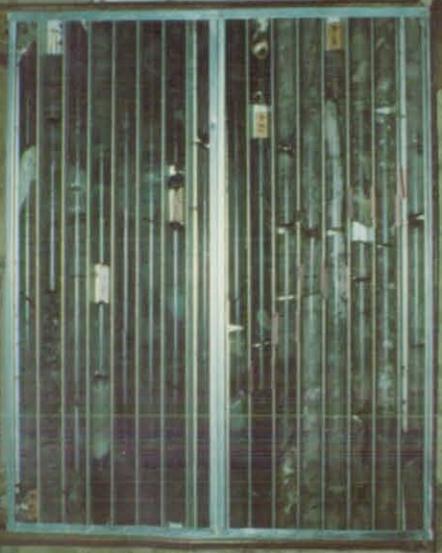
DDH BH 635/2
00.00 - 14.97 m.



DDH BH 635/2
14.97 - 29.40 m.



DDH BH 635/2
29.40 - 44.22 m.



DDH BH 635/2
44.22 - 59.33 m.



DDH BH 635/2
59.33 - 74.14 m.

DDH BH 635/2
74.14 - 89.09 m.

DDH BH 635/2
89.09 - 103.90 m.

DDH BH 635/2
103.90 - 111.40 m.
5.0 H

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 635/1

PLANNING

Proposer: S. G. Brown

Depth: 120m

Location: Stores Cuddy R61

Purpose of hole: To test C₁ C₂ & D lenses.

Co-ordinates: 40350 E 10637.5

Inclination: -76°

Bearing 090° Grid

Target: E

Approved by: M. C. R.

N

Magnetic:

Target Depth:

N

Date: 19-8-77

SURVEY

Survey Co-ords: E

Survey bearing: - Grid

Surveyed in by:

Actual Co-ords: 40357.45 E 10639.04

R.L. of Collar: 1003.18

Picked up by: A. Grigulis

N

Magnetic:

Date:

N

Inclination of Hole: -

Date: 29-9-77

SUMMARY

Logged by: D. Cowan:

Results: 43 - 50m 7m a) 0.48% WO₃ C₁ 62 - 65m 3m a) 1.45% WO₃ C₂ upper
90 - 98m 8m a) 0.86% WO₃ } D
103 - 110m 7m a) 1.03% WO₃

DRILLING

Driller/Contractor: A. S. D.

Date commenced: 14-9-77

Date terminated:

Casing: Size: -

Depth: -

Core: Size: 46TT

Depth: 124.5

Wedge Runoff:

Wedge placed: Nil

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Entred Adanellite

Condition of hole on completion:

Final depth: 124.50m

Casing: Nil

Cemented: No

Bore hole survey: Multishot

Water: No

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 635/1

Survey method: Multishot Camera

Final depth : 124.5m

Casing depth : 1m

Depth surveyed to: 124.5m

Date surveyed: 23-9-77

Surveyed by : D. Cowan

Checked by : G. Brown

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
30	089	061	12.5	-77.5	29.26	3.02	5.90
58	086	058	12.5	-77.5	56.60	6.21	11.05
86	083	055	12.5	-77.5	83.94	9.58	16.09
114	087.5	059.5	12	-78	111.30	12.53	21.25
124.5	083	055	12	-78	121.57	13.78	23.04

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 635/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.3	3.3	2.98	89
3.3 - 6.5	3.2	3.25	102
6.5 - 9.5	3.0	3.05	102
9.5 - 12.5	3.0	3.02	101
12.5 - 15.5	3.0	3.02	101
15.5 - 18.5	3.0	3.01	100
18.5 - 21.5	3.0	3.00	100
21.5 - 24.5	3.0	3.00	100
24.5 - 27.5	3.0	3.02	101
27.5 - 30.5	3.0	2.92	97
30.5 - 32.5	2.0	1.99	100
32.5 - 35.5	3.0	3.17	106
35.5 - 36.5	1.0	1.11	111
36.5 - 39.5	3.0	2.98	99
39.5 - 42.5	3.0	3.02	101
42.5 - 45.5	3.0	3.00	100
45.5 - 48.5	3.0	3.03	101
48.5 - 51.5	3.0	3.00	100
51.5 - 54.5	3.0	3.01	100
54.5 - 57.5	3.0	3.00	100
57.5 - 60.5	3.0	2.97	99
60.5 - 64.5	4.0	4.00	100
64.5 - 67.5	3.0	3.00	100
67.5 - 69.5	2.0	2.01	100
69.5 - 74.5	5.0	5.06	101
74.5 - 77.5	3.0	3.02	101
77.5 - 80.5	3.0	2.98	99
80.5 - 83.5	3.0	2.99	100
83.5 - 86.5	3.0	2.96	99
86.5 - 89.5	3.0	3.02	101
89.5 - 93.5	4.0	3.97	99
93.5 - 95.5	2.0	2.01	101
95.5 - 97.5	2.0	2.18	109
97.5 - 100.5	3.0	2.96	99
100.5 - 102.5	2.0	1.96	98
102.5 - 104.5	2.0	1.94	97
104.5 - 107.5	3.0	3.12	104
107.5 - 110.5	3.0	3.05	102
110.5 - 113.5	3.0	3.01	100
113.5 - 116.5	3.0	2.96	99
116.5 - 119.5	3.0	2.88	96
119.5 - 121.5	2.0	2.16	108
121.5 - 124.5	3.0	3.01	100

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 635/1

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
BH 5260	0	1	1.0	1.0	0.42	0.03	
1	43	44	1.0	1.0	0.30	<0.01	
2	44	45	"	"	0.34	"	
3	45	46	"	"	0.19	"	
4	46	47	"	"	0.63	0.02	7m a) 0.48% WO ₃
5	47	48	"	"	1.31	0.05	
6	48	49	"	"	0.16	<0.01	
7	49	50	"	"	0.45	0.01	
8	50	51	"	"	0.22	0.01	
9	51	52	"	"	<0.01	<0.01	
70	52	53	"	"	0.14	"	
1	53	54	"	"	0.10	"	
2	54	55	"	"	0.29	0.01	
3	55	56	"	"	<0.01	<0.01	
4	56	57	"	"	<0.01	"	
5	57	58	"	"	<0.01	"	
6	58	59	"	"	<0.01	"	
7	59	60	"	"	<0.01	"	
8	60	61	"	"	<0.01	"	
9	61	62	"	"	0.23	0.01	
80	62	63	"	"	2.65	0.10	
1	63	64	"	"	1.14	0.06	3m a) 1.45% WO ₃
2	64	65	"	"	0.56	0.04	
3	65	66	"	"	0.10	<0.01	
4	66	67	"	"	0.17	"	
5	67	68	1.0	1.0	<0.01	<0.01	
6	73	74	1.0	1.0	0.12	<0.01	
7	80	81	1.0	1.0	<0.01	<0.01	
8	81	82	"	"	0.38	0.01	2m a) 0.52% WO ₃
9	82	83	"	"	0.67	0.03	
90	83	84	"	"	0.09	<0.01	
1	84	85	"	"	<0.01	"	
2	85	86	"	"	0.62	0.02	2m a) 0.88% WO ₃
3	86	87	"	"	1.14	0.04	
4	87	88	"	"	<0.01	<0.01	
5	89	90	1.0	1.0	<0.01	<0.01	
6	90	91	"	"	1.33	0.05	
7	91	92	"	"	1.53	0.06	

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 635/1

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	W ₃	Mo	
8	92	93	"	"	0.93	0.04	8m a) 0.86% W ₃
9	93	94	"	"	0.40	0.01	
5300	94	95	"	"	0.51	0.01	
1	95	96	"	"	0.89	0.03	
2	96	97	"	"	0.95	0.02	
3	97	98	"	"	0.32	0.01	
4	98	99	"	"	0.05	0.01	
5	99	100	"	"	0.86	0.04	
6	100	101	"	"	<0.01	0.01	
7	101	102	"	"	1.70	0.06	
8	102	103	1.0	1.0	<0.01	0.01	7m a) 1.03% W ₃
9	103	104	"	"	0.41	<0.01	
10	104	105	"	"	2.70	0.09	
1	105	106	"	"	2.66	0.15	
2	106	107	"	"	0.63	0.04	
3	107	108	"	"	0.16	<0.01	
4	108	109	"	"	0.41	0.02	
5	109	110	"	"	0.27	0.01	
6	110	111	"	"	0.22	0.01	
7	111	112	"	"	0.16	<0.01	
8	113	114	1.0	1.0	<0.01	<0.01	
9	114	115	"	"	0.02	0.01	
20	115	116	"	"	<0.01	<0.01	
1	116	117	"	"	0.69	0.02	
BH 5322	117	118	"	"	<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 635/1

0 - 1.17

Garnet pyroxene skarn

Contains ore grade scheelite over most of its length.

1.17 - 3.80

Pyroxene calcite hornfels

Pale green weakly banded rock. A clump of coarse scheelite occurs at 2.12metres associated with a vein containing actinolite replacing marble.

3.80 - 20.80

Marble

Typical B lens marble: Well-banded, fine grained.

Between 5.01-5.95 Metres:
pyroxene calcite hornfels. pale green colour, weakly banded.

Between 10.65 - 12.91
Grainsize is coarser (recrystallized)
And bedding obscured.

Possible fault: Broken, puggy core occurs from 20.08 - 20.48. This area also contains scheelite mineralization.

Bedding 68° LCA at 4.61 metres
72° LCA at 6.35 metres
80° LCA at 8.09 metres
66° LCA at 9.37 metres
86° LCA at 15.10metres
86° LCA at 16.89metres

20.80 - 39.50

Biotite pyroxene hornfels

Typical brown-coloured bph. The finely laminated unit that is usually present immediately below the B lens marble does not occur.

Between 20.80 - 23.10 Podded bph. Pods increase in size with depth and reach 4 cm diameter.

Bedding 87° LCA at 22.22metres

Between 23.10 - 35.71 well banded to to disturbed bph. Spotting caused by biotite concentrations occurs between 28.04 - 28.40m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 635/1

Bedding 88° LCA at 24.27
78° LCA at 27.83
66° LCA at 28.56
63° LCA at 35.07

Core is sheared and broken between
31.80 - 33.06

Between 35.71 - 39.50 podded bph both
silica - rich and calcite pods occur, the
latter being larger. Bedding is very weak.

39.50 - 43.88

Pyroxene calcite hornfels

A very distinctive greenish-coloured unit
containing large (up to 4cm diam.) calcite pods.
The pods are often rimmed with grossularite garnet.
Towards the bottom of the unit it becomes more
biotite rich. Minor amounts of feldspar occurs
between 42.60 - 42.70.

43.88 - 57.96

Podded pyroxene garnet hornfels.

This unit contains scheelite mineralization
throughout but probably only reaches ore grade
between 44.39 - 45.23. Some large scheelite crystals
(up to 1.5 cm dia.) occur at 46.85 m, associated
with a quartz vein. The garnet is largely
grossularite.

57.96 - 61.03

Biotite pyroxene hornfels

A narrow band of barren bph. The unit is podded
from 57.96 - 59.22

Bedding 77° LCA at 59.12

61.03 - 67.20

Pyroxene garnet skarn

Garnet is predominantly andradite, giving the
rock a darker colouration than the podded pgh.
The unit is mineralized throughout except for the
last 40cm. It probably only reaches ore grade
between 61.86 - 63.84

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 635/1

67.20 - 68.10

Fault breccia

Highly brecciated and leached area. No scheelite mineralization.

68.10 - 73.00

Biotite pyroxene hornfels

Well banded. Between 68.68 - 69.22 very pyroxene rich, biotite poor between 70.70 - 71.18 the core is sheared but offset is negligible. Between 72.32 - 73.00 a minor marble band occurs.

Bedding 62° LCA at 68.60 m
60° LCA at 70.65 m
61° LCA at 71.55 m

73.00 - 73.65

Pyroxene garnet skarn

A narrow band of skarn containing scheelite of probably ore grade.

73.65 - 76.50

Biotite pyroxene hornfels.

Well banded bph. Two minor bands of aplite occur between 75.55 - 75.73 and 76.20 - 76.32 m

Bedding 60° LCA at 75.06 m
57° LCA at 76.12 m

76.50 - 78.00

Aplite

Below 78.00 minor amounts of aplite can be seen intruding along bedding planes.

78.00 - 79.37

Biotite pyroxene hornfels

Well banded.

Bedding 49° LCA at 79.00

79.37 - 90.35

Unmineralized banded footwall beds.

The bulk of this sequence consists of alternating pyroxene, biotite and calcite hornfels. Probable ore grade scheelite occurs

between 81.60 - 82.28
&82.71 - 82.90
&83.35 - 83.50

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 635/1

85.57 - 85.88
86.24 - 86.92

It occurs in a garnet - pyroxene skarn.

Bedding is at 47° LCA at 81.40
47° LCA at 83.75
46° LCA at 84.64
50° LCA at 86.10
48° LCA at 86.60
50° LCA at 86.85
53° LCA at 89.75

90.35 - 97.74

Mineralized banded footwall beds.

This part of the sequence contains an abundance of scheelite bearing garnet-pyroxene skarns amongst barren pyroxene, calcite and biotite hornfels. Probable ore grade scheelite occurs between:

90.35 - 90.88m
91.33 - 92.25m
92.50 - 92.82m
94.02 - 94.17m
94.87 - 95.18m
95.30 - 97.11m
97.20 - 97.43m
97.57 - 97.74m

Non-ore grade scheelite occurs between

92.25 - 92.50m
93.45 - 93.72m

The rest of the rock is waste and consists mainly of calcite hornfels.

Bedding is 40° LCA at 93.10m
36° LCA at 94.27m

97.74 - 103.10

Unmineralized banded footwall beds

Calcite hornfels are dominant over biotite and pyroxene hornfels. Probable ore grade scheelite (in garnet pyroxene skarns) occurs between:

99.80 - 99.91m
101.05 - 101.33m

Non - Ore grade scheelite occurs between:

98.69 - 98.94m
101.47 - 101.68m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B.635/1

Bedding is at 55° LCA at 98.20
50° LCA at 100.26
55° LCA at 100.92
54° LCA at 102.17

103.10 - 110.20

Mineralized banded footwall beds.

Probable ore grade scheelite occurs between:

103.10 - 103.34
103.73 - 104.10
104.39 - 104.50
106.35 - 106.68
107.00 - 107.38
108.50 - 108.75
109.49 - 109.82

Non-ore grade scheelite occurs between:

104.63 - 104.77
(with large crystals at 104.67)
104.86 - 105.25
105.50 - 106.35
(with large crystals at 105.65, associated with
fibrous actinolite).
108.97 - 109.02
109.10 - 109.14
110.00 - 110.20

Bedding is at 42° LCA at 104.20
60° LCA at 105.16
73° LCA at 107.71
73° LCA at 109.30

110.20 - 118.55

Unmineralized banded footwall beds

Probable ore grade scheelite occurs between:

116.03 - 116.71

Non-ore grade scheelite occurs between:

110.94 - 110.97
114.30 - 114.42
116.87 - 116.90

abundant magnetite is present between:

111.14 - 111.22
111.45 - 111.68

Bedding is at 56° LCA at 111.70
52° LCA at 113.32

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 635/1

54° LCA at 114.42

59° LCA at 115.68

54° LCA at 117.83

118.55 - 124.50

Adamellite

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 635/1

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		
5265	1.31		5605	1.02		5606	1.27		5607	1.41		B 635/1	
5283	0.10		5496	0.05		5497	0.16		5498	0.20		B 635/1	
5288	0.38		5499	0.28		5500	0.48		5580	0.47		"	
5296	1.33		5581	0.96		5582	1.48		5583	1.46		"	
5300	0.51		5584	0.47		5585	0.63		5586	0.62		"	
5310	2.70		5593	2.23		5594	2.58		5595	2.51		"	

DDH BH 635/1.
00.00 - 15.40 m.



DDH BH 635/1.
15.40 - 30.47 m.



DDH BH 635/1.
30.47 - 45.00 m.



DDH BH 635/1.
45.00 - 60.21 m.



DDH BH 635/1
60.21 - 74.88m.



DDH BH 635/1
74.88 - 89.90 m.



DDH BH 635/1
89.90 - 104.50m.



DDH BH 635/1
104.50 - 119.50m.





GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 625/18

PLANNING PROPOSER: T. Potter DEPTH: 30 m
LOCATION: A Lens Outcrop
PURPOSE OF HOLE: Structure & Grade
PROPOSED CO-ORDS: 40351 E 10625 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: 40351.69 E 10625.55 N
R.L. OF COLLAR: 1116.34
INCLINATION OF HOLE: -73°
PICKED UP BY: B. Lennon DATE: 7/8/80

SUMMARY LOGGED BY:
RESULTS:

DRILLING DATE COMMENCED: 15/7/80 DATE TERMINATED: 16/7/80
DRILLER/CONTRACTOR: Geopeko - Jacro Drill
AUGER: SIZE:
DEPTH: 15.3
CORE: SIZE: AQ
DEPTH: 26.4
EXTENSION: Auger 0 - 15.3 m Diam 15.3 - 26.4
EXTENSION:
FINAL DEPTH: 26.4 m
REASON FOR TERMINATION: Rods jammed in leached ch. Hole abandoned.
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 625/18

Auger. SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
KF 357	0	1.5	1.5		0.11			
358	1.5	3.0	"		0.11			
359	3.0	4.5	"		0.07			
360	4.5	6.0	"		0.09			
361	6.0	7.5	"		0.65			
362	7.5	9.0	"		0.66			
363	9.0	10.5	"		0.53			
364	10.5	12.0	"		0.43			
365	12.0	13.5	"		0.65			
366	13.5	15.3	"		0.67			
Diamond Drill Core		15.3 -	26.0	EOH				

SPECIFIC GRAVITY

Determined by:

Depth (metres):

Rock Type:

S.G.:

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 625/18

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 8481	21.84	22.44	1.0	1.0	0.23			
82	22.44	23.4	"	"	0.19			
83	23.4	24.03	"	"	7.20			
84	24.03	25.24	"	"	7.10			
85	25.24	26.4	"	"	12.9			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 625/18

Auger Drilling 0.0 - 15.3 m
Diamond Drilling 15.3 - 26.4 m

0.0 - 1.5 m	Very dark orange - brown clay
1.5 - 3.0	Dark orange - brown clay
3.0 - 4.5	Light orange - brown clay
4.5 - 6.0	" " " "
6.0 - 7.5	" " " "
7.5 - 9.0	" " " "
9.0 - 10.5	Dark orange - brown clay
10.5 - 12.0	" " " "
12.0 - 13.5	" " " "
13.5 - 15.3	" " " "
15.3 - 17.3	2.1 m drilled 0.25 m recovered. 0.0 - 0.13 m quartzite showing slight weathering 0.13 - 0.25 m Fe crud with very minor scheelite probably weathered garnet hornfels.
17.4 - 20.4	3.0 m drilled 0.3 m recovered 0.0 - 0.3 m weathered aplite? Pebbles
20.4 - 23.4	3.0 m drilled 1.76 m recovered 0.0 - 0.2 m weathered aplite pebbles. This interval probably accounts for the core loss. 0.2 - 0.8 white aplite showing leaching and oxidation. Soft and white colour. Sample No. 8481 0.8 - 1.76 aplite - grey in colour and fresher than above. Contains some large scheelite crystals and some zones of garnet hornfels infusions. Sample No. 8482.
23.4 - 26.4	3.0 m drilled 1.84 m recovered. 0.0 - 0.63 aplite leached and oxidised. Sample No. 8483. 0.62 - 1.16 m very weathered garnet hornfels with strong mineralisation. Area of major core loss. Sample No. 8484 1.16 - 1.84 aplite leached and oxidised with moderate scheelite mineralisation. Sample No. 8485.

EOH 26.4 m

DDH BH 625/18
E-OH
15.3 - 26.4 m.



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 625/17

PLANNING PROPOSER: R. E. S. Davies DEPTH: 55m
LOCATION: N62 Drill Cuddy
PURPOSE OF HOLE: Define D Lens, Western Fault and Granite
PROPOSED CO-ORDS: 40392 E 10625 N
INCLINATION: 0°
BEARING: 270° °GRID °MAG
TARGET: E N
DEPTH:
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING 269° 25' 40" °GRID °MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40385.6 E 10624.8 N
R.L. OF COLLAR: 910.2 m
INCLINATION OF HOLE: +00° 17'
PICKED UP BY: B. Lennon DATE: 24/9/79

SUMMARY LOGGED BY: R. E. S. Davies
RESULTS: Subgrade mineralisation

DRILLING DATE COMMENCED: 18/9/79 DATE TERMINATED: 21/9/79
DRILLER/CONTRACTOR: KIS
CASING: SIZE:
DEPTH:
CORE: SIZE: AQ
DEPTH: 48.60
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 48.6m
REASON FOR TERMINATION: Finished in adamallite
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: Multishot at 48.60m
WATER: Small flow
COMMENTS ON DRILLING CONDITIONS: Good

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 625/17

Surveyed method: Multishot
 Final depth: 48.60m
 Casing depth: Nil

Depth surveyed to: 48.60m
 Date surveyed: 24/9/79
 Surveyed by: L. Denby
 Checked by: Computer

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.		S	W
4	262 ^o	234 ^o	89 ^o 15'	-0 ^o 45'	.05	.56	3.96
13	267	239	89 30	-0 30	.13	1.03	12.95
22	267	239	89	-1	.29	1.50	21.94
32	267	239	89	-1	.47	2.02	31.93
43	267	239	89	-1	.66	2.60	42.91
48.60	268	240	89	-1	.76	2.80	48.51

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 625/17

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.6	2.6	2.6	100
2.6 - 4.6	2.0	2.0	100
4.6 - 6.4	1.8	1.8	100
6.4 - 9.4	3.0	3.0	100
9.4 - 10.6	1.2	1.2	100
10.6 - 13.6	3.0	3.0	100
13.6 - 14.6	1.0	0.85	85
14.6 - 17.6	3.0	3.0	100
17.6 - 20.6	3.0	3.0	100
20.6 - 22.6	2.0	2.0	100
22.6 - 23.6	0.9	0.9	100
23.5 - 25.0	1.5	1.5	100
25.0 - 26.1	1.1	1.1	100
26.1 - 28.8	2.7	2.7	100
28.8 - 30.6	1.8	1.8	100
30.6 - 33.4	2.8	2.8	100
33.4 - 36.1	2.7	2.5	93
36.1 - 38.2	2.1	2.1	100
38.2 - 41.2	3.0	3.0	100
41.2 - 46.2	5.0	5.0	100
46.2 - 48.6	2.4	2.25	94
EOH 48.6m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 625/17

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recd.	WO ₃	Mo		
BH 7861	0	1	1.0	1.0	0.68	0.02		
62	1	2	"	"	<0.01	<0.01		
63	10	11	"	"	<0.01	<0.01		
64	11	12	"	"	<0.01	<0.01		
65	12	13	"	"	0.01	<0.01		
66	13	14	"	"	0.82	0.04		
67	14	15	"	"	<0.01	<0.01		
68	15	16	"	"	<0.01	<0.01		
69	16	17	"	"	<0.01	<0.01		
70	17	18	"	"	<0.01	<0.01		
71	18	19	"	"	0.59	0.03		
72	19	20	"	"	0.05	<0.01		
73	20	21	"	"	<0.01	<0.01		
74	21	22	"	"	<0.01	<0.01		
75	22	23	"	"	<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 625/17

0.0 - 22.16m BANDED FOOTWALL BEDS

Typical well bedded banded footwall beds, poor mineralisation is present from:

0.0 - 40.0m 12.1 - 14.5m and 17.8 - 22.0m.

The first 7m of core is composed of approximately equal amounts of biotite hornfels and marble with lesser amounts of pyroxene hornfels. From 7.4 - 11.1m the core is entirely marble, 11.1 - 15.0m, marble, biotite hornfels are roughly equal with minor pyroxene hornfels and garnet hornfels.

From 14.4 - 14.6 is an area of loose and rubbly core, partially cemented by calcite.

15.0 - 18.0m entirely marble.

The remainder of the unit is an intermixed marble/pyroxene hornfels/garnet hornfels, fractured at 20.5 - 20.7

Bedding is	34°	to	LCA	@	1.2m
	26'				3.5m
	19				7.2m
	26				8.9m
	15				11.6m
	25				16.6m
	19				21.3

Bedding in marble also marked by grossular bands.

22.16 - 25.84m BIOTITE HORNFELS

Dark fine grained unmineralised biotite hornfels.

25.84 - 48.6m ADAMALLITE

Initially fine grained for the first 50cm, the remainder is coarse grained (about 1cm) and equigranular.

It is unmineralised.

A fault, thought to be the Western Fault is present at 35.1 - 36.2m as a zone of crushed, broken rock with chlorite slickensides.

EOH 48.6m

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 625/17

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.L.S.			
Original Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	
7861	0.68	0.02	8387	0.85	<0.01	8388	0.830		8389	0.84		
7871	0.59	0.03	8390	0.84	0.01	8391	0.630		8392	0.47		

DDH BH 625/17

0.00 → 14.93 m.

DDH BH 625/17

14.93 → 29.17 m.

DDH BH 625/17

29.17 → 44.16 m.

DDH BH 625/17

44.16 → 48.60 m.

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 625/16

PLANNING PROPOSER: R. E. Sandell Davies DEPTH:
LOCATION: K65 Drive
PURPOSE OF HOLE: Define C West
PROPOSED CO-ORDS: 40 329 E 10 625 N
INCLINATION: +78°
BEARING: 270° °GRID °MAG
TARGET: E N
DEPTH:
CHECKED BY: T. Potter DATE:
SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: 270° °GRID °MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40 328.9 E 10 625.2 N
R.L. OF COLLAR: 940.6
INCLINATION OF HOLE: +78°
PICKED UP BY: B Lennon DATE: 18/9/80
SUMMARY LOGGED BY: T. Potter
RESULTS: 9.0 to 15.0 m 6 m @ 0.33% WO₃

DRILLING DATE COMMENCED: DATE TERMINATED:
DRILLER/CONTRACTOR:
CASING: SIZE:
DEPTH:
CORE: SIZE:
DEPTH:
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 26.0 m
REASON FOR TERMINATION:
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: No Survey
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 625/16

Surveyed method: -
 Final depth: 26.0 m
 Casing depth: -

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

1/1/1/1

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.		N	E
0.0	270°			+78°		10625,2	40328,9
26.0							
EOH							

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 625/16

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 1.2	1.2	1.2	100
1.2 - 2.3	1.1	1.1	100
2.3 - 3.7	1.4	1.4	100
3.7 - 6.4	2.7	2.7	100
6.4 - 9.3	2.9	2.9	100
9.3 - 11.1	1.8	1.8	100
11.1 - 11.5	0.4	0.4	100
11.5 - 14.4	2.9	2.9	100
14.4 - 17.5	3.1	3.1	100
17.5 - 20.5	3.0	3.0	100
20.5 - 23.0	2.5	2.5	100
23.0 - 26.0	3.0	3.0	100
EOH 26.0 m			

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 625/16

DEPTH INTERVAL (METRES)	ROCK TYPE	FRAC- TURES /m	JOINT ANGLE (WRT/ LAOC)	JOINT FILLING	BEDDING ANGLE (W R T/ L A Q C)	% CORE RECO- VERY	R. Q. D.	REMARKS (WEATHERING)
0.0 - 1.2	ph	1.2				65	0.78	
1.2 - 8.3	bph	7.1				85	60.5	
8.3 - 10.65	pgh	10.35				86	8.9	
10.65 - 21.93	Granite	3.28				92	3.03	
21.93 - 26.0	Ap	4.07				86	3.5	

FURTHER DATA & REMARKS

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

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 625/16

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 8533	8	9	1.0	1.0	0.06			6 m @ 0.33
34	99	10	"	"	0.38			
35	10	11	"	"	0.23			
36	11	12	"	"	0.42			
37	12	13	"	"	0.29			
38	13	14	"	"	0.25			
39	14	15	"	"	0.39			
40	15	16	"	"	0.22			
41	16	17	"	"	0.22			
42	17	18	"	"	0.20			
43	18	19	"	"	0.19			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 625/16

0.0 - 1.2 m GRANITISED PYROXENE HORNFELS

A hard rock showing infusions of quartz and over a 20 cm length shows development of feldspar. Very weakly mineralised with highest area being 20 cm at 0.1%.

1.2 - 8.3 BIOTITE PYROXENE HORNFELS

Unit is typical biotite pyroxene hornfels with pods of calcite with pyroxene rims.

5.0 - 7.3 m. biotite rich with fewer pods.

2.4 1 cm calcite vein subparallel at core axis.

2.8 1 cm calcite vein at 10° to axis.

7.5 1 cm calcite vein at 10° to axis.

8.3 - 18.65 PYROXENE GARNET HORNFELS

Lithology - uniform in mineralogy excepting the presence of vague calcite pods 8.3 - 11.0 m. The rest of the unit is absent of pods.

Mineralisation - scheelite is uniform sparse medium grained crystals which would be sub-grade.

Structure - 1 cm calcite vein at 8.9 m at 10° to core axis.

9.30 sub-parallel joint.

10.70 joint with calcite at 20°

11.70 1 cm calcite vein 30°

12.60 2 - 3 cm calcite vein 20°

13.1 1 cm calcite vein at 15° but dipping opposite direction to 12.60 m.

15.9 m 2 cm calcite vein 30°

17.6 1 cm chlorite vein 20°

18.65 - 21.93 GRANITE

Typical granite with coarse grained pink and white feldspars and biotite. Contact with pyroxene garnet hornfels is not broken but distinct at 45°

Clinohumite vein at 21.93 21.5 to 21.93 fine grained granite.

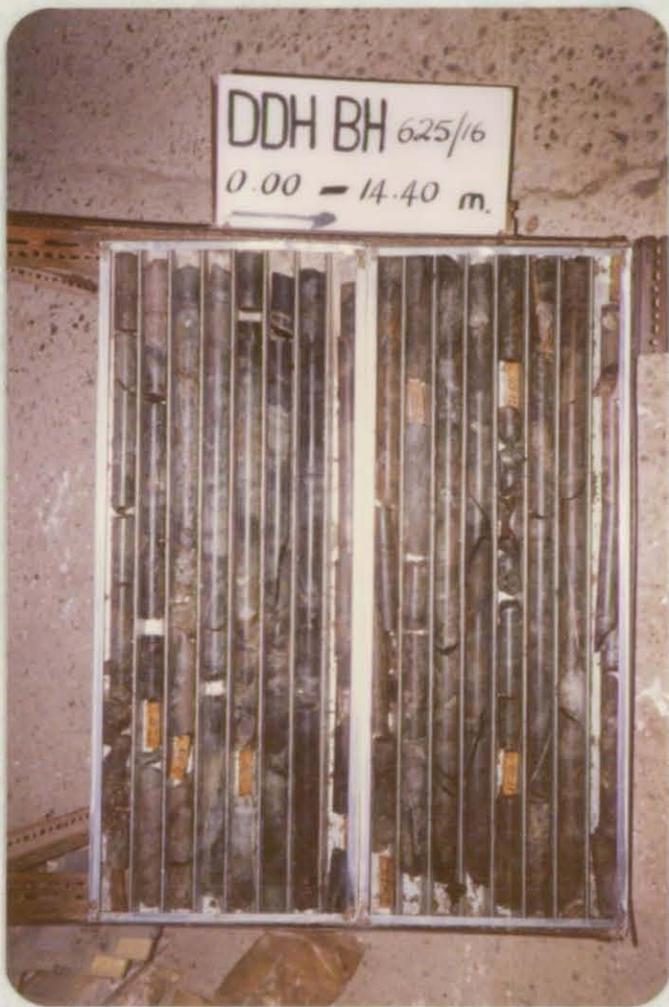
21.93 - 26.00 APLITE

White or yellow rock with quartz aggregates or infusions as well as crystals. Contains a pale mica as flakes.

25.27 - 25.42 three zones of pug with a predominance of mica.

Aplite in general is devoid of black biotite.

DDH BH 625/16
0.00 - 14.40 m.



DDH BH 625/16
E.O.H.
14.40 - 26.00 m.



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 625/15

PLANNING PROPOSER: R. E. S. Davies DEPTH: 45m
LOCATION: N62 Drill Cuddy
PURPOSE OF HOLE: Define D Lens
PROPOSED CO-ORDS: 40392 E 10625 N
INCLINATION: -60°
BEARING: -90° °GRID °MAG
TARGET: E N
DEPTH:
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: $91^{\circ} 53'$ °GRID °MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40390.11 E 10625.6 N
R.L. OF COLLAR: 909.0
INCLINATION OF HOLE: $-58^{\circ} 53'$
PICKED UP BY: B. Lennon DATE: 3/10/79

SUMMARY LOGGED BY: R. E. S. Davies
RESULTS: 1 - 12m, 11m @ 1.05% WO_3

DRILLING DATE COMMENCED: 27/9/79 DATE TERMINATED: 2/10/79
DRILLER/CONTRACTOR: K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE:
DEPTH: 26.50
WEDGE PLACED: N11 DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 26.5m
REASON FOR TERMINATION: In Granite
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: No Surveyed
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 625/15

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.2	3.2	2.7	84
3.2 - 6.0	2.8	2.8	100
6.0 - 9.0	3.0	3.0	100
9.0 - 12.0	3.0	3.0	100
12.0 - 14.8	2.8	2.8	100
14.8 - 17.8	3.0	3.0	100
17.8 - 20.8	3.0	3.0	100
20.8 - 24.0	3.2	3.2	100
24.0 - 26.5	2.5	2.5	100
EOH 26.5m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 625/15

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 7933	0	1	1.0	1.0	0.01			
34	1	2	"	"	0.77			
35	2	3	"	"	0.68			
36	3	4	"	"	1.44			
37	4	5	"	"	0.43			
38	5	6	"	"	0.02			
39	6	7	"	"	0.46			
40	7	8	"	"	1.50			
41	8	9	"	"	3.53			
42	9	10	"	"	1.29			
43	10	11	"	"	0.87			
44	11	12	"	"	0.55			
45	12	13	"	"	0.03			
46	13	14	"	"	0.16			
47	14	15	"	"	0.27			
48	15	16	"	"	0.35			
49	16	17	"	"	0.01			
50	17	18	"	"	0.26			
01	18	19	"	"	0.21			
02	19	20	"	"	0.34			
03	20	21	"	"	0.02			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 625/15

0.0 - 20.4m MINERALISED BANDED FOOTWALL BEDS

Typical well bedded banded footwall beds, individual units are generally 5.0 - 40cm thick and include garnet hornfels, marble, biotite hornfels and pyroxene hornfels.

Mineralisation is very patchy up to 7.5m, approximately half the core is garnet hornfels. From 7.5m to 11m the core is about 80% garnet skarn.

The rest of the unit is probably about 25% skarn.

Bedding is	71°	to LCA @	3.0m
	47°		7.3m
	51°		11.7m
	44°		17.0m
	59°		18.7m

20.4 - 26.5 ADAMALLITE

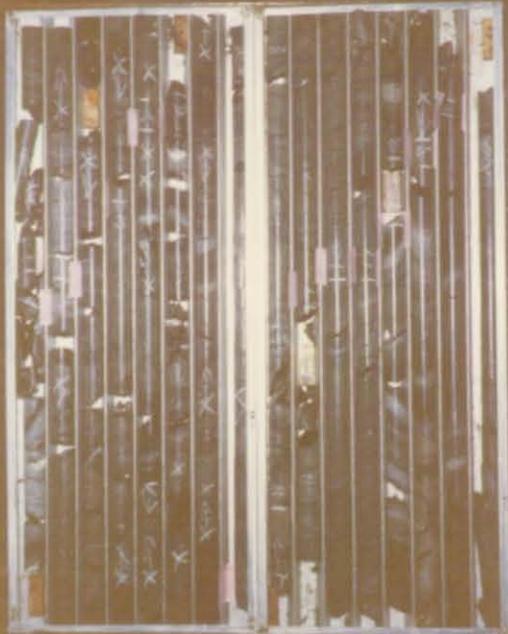
This intrusion is mostly of moderate grain size (0.5 cm). The first 40cm are heavily altered and very siliceous.

From 22.7 to 24.0m the core is considerably broken and consists mostly of loose chippings (4mm) and broken blocks. This zone may represent the Boundary Fault.

EOH 26.5m

DDH BH 625/15

0.00 → 14.80 m.



DDH BH 625/15

14.80 → 26.50 m.
F.O.H.



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 625/14

PLANNING PROPOSER: R. E. S. Davies DEPTH: 30m
LOCATION: N62 Decline Drill Cuddy
PURPOSE OF HOLE: To Define D Lens
PROPOSED CO-ORDS: 40 392 E 10625 N
INCLINATION: -40
BEARING: 270 ° GRID ° MAG
TARGET: 25m E N
DEPTH:
CHECKED BY: S. G. Brown DATE: 23/8/79

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: 270 ° GRID ° MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40386.0 E 10624.8 N
R.L. OF COLLAR: 909.2
INCLINATION OF HOLE: -38 ° 42'
PICKED UP BY: B. Lennon DATE: 2/10/79

SUMMARY LOGGED BY: R. E. S. Davies
RESULTS: 1 - 3m, 2m @ 1.04% WO₃
13 - 24m, 11m @ 0.81% WO₃

DRILLING DATE COMMENCED: 24/9/79 DATE TERMINATED: 27/9/79
DRILLER/CONTRACTOR: K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE: 37.00
DEPTH:
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 37.0m
REASON FOR TERMINATION: In granite
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: Multishot to 31.00m
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 625/14

Surveyed method: Multishot
 Final depth: 31.00m
 Casing depth: 1m

Depth surveyed to: 31.00m
 Date surveyed: 27/9/79
 Surveyed by: L. Denby
 Checked by:

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.		S	W
10	270 ⁹⁰	62°	49° 45'	-40° 50'	6.46	-	7.63
23	270 ⁹⁰	62°	49° 30'	-40° 30'	14.90	-	17.52
31	269 ⁸⁹	61°	49° 45'	-40° 15'	20.07	.11	23.63
37	269 ⁸⁹	61°	49° 45'	-40° 15'	23.95	.19	28.21

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 625/14

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.5	2.5	2.3	92
2.5 - 5.8	3.3	3.0	91
5.8 - 8.8	3.0	3.0	100
8.8 - 11.8	3.0	3.0	100
11.8 - 14.8	3.0	3.0	100
14.8 - 17.8	3.0	3.0	100
17.8 - 19.8	2.0	2.0	100
19.8 - 22.7	2.9	2.9	100
22.7 - 25.8	3.1	3.1	100
25.8 - 27.3	1.5	1.5	100
27.3 - 29.6	2.3	2.0	87
29.6 - 32.1	2.5	1.7	68
32.1 - 33.9	1.8	1.8	100
33.9 - 37.0	3.1	2.4	77
EOH 37.0m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 625/14

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 7876	0	1	1.0	1.0	<0.01			
77	1	2	"	"	0.49			
78	2	3	"	"	1.58			
79	3	4	"	"	0.05			
80	4	5	"	"	<0.01			
81	5	6	"	"	0.65			
82	6	7	"	"	0.01			
83	7	8	"	"	<0.01			
84	8	9	"	"	<0.01			
85	9	10	"	"	<0.01			
86	10	11	"	"	0.01			
87	11	12	"	"	<0.01			
88	12	13	"	"	0.04			
89	13	14	"	"	0.38			
90	14	15	"	"	0.50			
91	15	16	"	"	0.21			
92	16	17	"	"	0.57			
93	17	18	"	"	1.20			
94	18	19	"	"	1.44			
95	19	20	"	"	0.33			
96	20	21	"	"	0.75			
97	21	22	"	"	1.52			
98	22	23	"	"	1.69			
99	23	24	"	"	0.30			
7900	24	25	"	"	0.30			
01	25	26	"	"	0.25			
02	26	27	"	"	<0.01			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 625/14

0.0 - 27.3m BANDED FOOTWALL BEDS (MINERALISED)

This is a well bedded sequence of marble, garnet skarn, biotite hornfels and rare pyroxene hornfels.

The unit is generally competent though it often parts on bedding planes.

Bedding is	36°	to LCA @	0.9m
	24°		3.0m
	15°		5.5m
	20°		10.0m
	22°		13.7m
	20°		16.7m
	40°		18.0m
	33°		20.0m
	36°		23.3m
	30°		27.2m

Mineralisation is confined to the beds of garnet skarn and where present it is good grade.. As some beds are thin, overall grades are probably only average, say 0.5%.

Significant garnet hornfels beds occur @

1.6 - 2.8m
5.5 - 6.0m
8.6 - 8.9m
11.7 - 14.5m
14.8 - 19.0m
19.4 - 23.0m
23.7 - 28.8m
24.6 - 24.7m

27.3 - 33.9m FAULT ZONE

This 6m zone of faulting is thought to be the Western Fault. The central section 29.5 - 31.0m is represented by numerous rubble fragments, of 1-3cm diameter often with Chlorite slickenslides. A small amount of clay is present. Fragments are generally larger above and below this zone. Fragments in the top part are of Banded Footwall Beds and those in the lower part are of granite.

33.9 - 37.0m ADAMALLITE

A pink coloured intrusive having numerous euhedral large (<2cm) crystals of orthoclase.

EOH 37.0m

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 625/14

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.L.S.			
Original Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	
7878	1.58	-	8393	1.07	0.01	8394	1.48		8395	1.54		
7889	0.38	-	8396	0.43	0.01	8397	0.390		8398	0.35		
7899	0.30	-	8399	0.35	0.01	8400	0.375		8401	0.79		

DDH BH 625/14

0.00 — 15.13 m.

DDH BH 625/14

15.13 — 29.30 m.

DDH BH 625/14

29.30 — 37.00 m.

F.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 625/13

PLANNING

Proposer: S. G. Brown

Depth: 125

Location: L 60 stope 10625 N

Purpose of hole: To test C₁ C₂ and D lenses

Co-ordinates: 40372.0 E 10623.0

Inclination: -87

Bearing 090° Grid

Target: E

Approved by:

N

Magnetic:

Target Depth:

N

Date:

SURVEY

Survey Co-ords: E

Survey bearing: 61° 23' Grid

Surveyed in by:

Actual Co-ords: 40 370.80 E 10622.17

R.L. of Collar: 1002.91

Picked up by: V.C.

N

Magnetic:

Date:

N

Inclination of Hole: -85° 18'

Date: 8-9-77

SUMMARY

Logged by: S. Grieve Brown

Results: 46.0 - 49.0 3m @ 0.43% WO₃ 52.0 - 55.0 3m @ 3.50% WO₃
60.0 - 65.0 5m @ 0.53% WO₃ 67.0 - 72.0 5m @ 1.39% WO₃
97.0 - 102.0 5m @ 0.98% WO₃

DRILLING

Driller/Contractor: A. D. D.

Date commenced: 22-8-77

Date terminated: 31-8-77

Casing: Size:

BX

Depth:

1.0

Core: Size:

46 TT

Depth:

120.7

Wedge Runoff:

Wedge placed: Nil

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Entered adamellite

Condition of hole on completion:

Final depth: 120.7

Casing: pulled

Cemented:

Bore hole survey: Multishot

Water: No

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 625/13

Survey method: Multishot Camera

Final depth : 120.7m

Casing depth : 1m

Depth surveyed to: 120.7m

Date surveyed: 1-9-77

Surveyed by : L. Denby

Checked by : G. Brown

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
45	009	341	5	-85	44.86	3.43	1.06
73	008.5	340.5	5.5	-84.5	72.74	5.90	1.93
101	008.5	340.5	6	-84	100.59	8.58	2.94
120.7	010	342	6.25	-83.75	120.18	10.61	3.61

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 625/13

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 4.00	4.00	3.82m	96
6.70	2.70	2.64	98
9.70	3.00	2.97	99
12.70	3.00	3.02	101
15.70	3.00	3.00	100
18.70	3.00	2.93	98
21.70	3.00	3.00	100
24.70	3.00	2.89 <i>not sure</i>	96
27.70	3.00	3.05	102
30.70	3.00	2.99	100
33.70	3.00	3.18	106
36.70	3.00	2.96	99
39.70	3.00	3.00	100
42.70	3.00	3.00	100
47.70	5.00	4.93	99
50.70	3.00	3.07	102
53.70	3.00	3.01	100
56.70	3.00	3.03	101
59.70	3.00	2.96	99
62.70	2.00	2.93	98
65.70 - 68.70	3.00	3.03	101
71.70	3.00	2.99	100
74.70	3.00	3.00	100
77.70	3.00	3.00	100
80.70	3.00	3.00	100
83.70	3.00	2.94	98
86.70	3.00	2.96	99
89.70	3.00	3.02	101
92.70	3.00	2.91	97
95.70	3.00	3.03	101
98.70	3.00	3.02	101
101.70	3.00	3.00	100
104.70	3.00	3.00	100
107.70	3.00	3.01	100
110.70	3.00	3.00	100
115.70	5.00	4.97	99
118.70	3.00	2.96	99
120.70 EOH	2.00	1.98	99

GEOPEKO LIMITED - King Island

ASSAY DATA

D.D.H. No.B 625/13

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
BH 5076	44.0	45.0	1.0	1.0	<0.01	<0.01		
77	45.0	46.0	"	"	<0.01	<0.01		
78	46.0	47.0	"	"	0.62	0.02	46.0 ↓	49.0
79	47.0	48.0	"	"	0.17	0.01	3m @ WO ₃	
80	48.0	49.0	"	"	0.50	0.02	0.43% ↑	
81	49.0	50.0	"	"	0.21	0.02		
82	50.0	51.0	"	"	<0.01	0.01		
83	51.0	52.0	"	"	0.15	0.01		
84	52.0	53.0	"	"	0.26	0.02	52.0 ↓	55.0
85	53.0	54.0	"	"	7.80	1.2%	3m @ 3.50% WO ₃	
86	54.0	55.0	"	"	2.45	0.52		
87	55.0	56.0	"	"	0.04	0.01		
88	56.0	57.0	"	"	<0.01	0.01		
89	57.0	58.0	"	"	0.07	0.04		
90	58.0	59.0	"	"	<0.01	<0.01		
91	59.0	60.0	"	"	<0.01	0.04	Marker ↑	Horizon
92	60.0	61.0	"	"	0.31	0.01		
93	61.0	62.0	"	"	0.21	0.02	60.0 -	65.0m
94	62.0	63.0	"	"	0.70	0.19	5m @ 0.53% WO ₃	
95	63.0	64.0	"	"	0.68	0.04		
96	64.0	65.0	"	"	0.75	0.01		
97	65.0	66.0	"	"	<0.01	<0.01		
98	66.0	67.0	"	"	<0.01	<0.01		
99	67.0	68.0	"	"	0.30	0.02	67.0 ↓	72.0m
5100	68.0	69.0	"	"	1.45	0.06	5m @ 1.39% WO ₃	
01	69.0	70.0	"	"	4.71	0.15		
02	70.0	71.0	"	"	0.23	0.02		
03	71.0	72.0	"	"	0.27	0.01		
04	72.0	73.0	"	"	0.07	<0.01		
05	73.0	74.0	"	"	<0.01	<0.01		
5106	87.0	88.0	1.0	1.0	<0.01	<0.01		
07	88.0	89.0	"	"	0.10	0.01		
08	89.0	90.0	"	"	0.05	0.01		
09	90.0	91.0	"	"	0.06	0.01		
10	91.0	92.0	"	"	0.96	0.04		
11	92.0	93.0	"	"	<0.01	<0.01		
12	93.0	94.0	"	"	0.21	0.02		
13	94.0	95.0	"	"	0.45	0.03		
14	95.0	96.0	"	"	0.14	0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 625/13.

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
15	96.0	97.0	1.0	1.0	0.20	0.01		
16	97.0	98.0	"	"	1.68	0.06	97.0 ↓	102.0m
17	98.0	99.0	"	"	1.56	0.05	5m @ 0.98%	W03
18	99.0	100.0	"	"	0.43	0.02		
19	100.0	101.0	"	"	0.52	0.03		LENS
20	101	102.0	"	"	0.72	0.04		
21	102.0	103.0	"	"	<0.01	<0.01	↑	

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 625/13

0.00 - 21.51m

Marble

A grey black well bedded marble with only minor amounts of garnet and pyroxene present in it. Only trace scheelite is present in this unit at 10.8 metres where it is associated with molybdonite in a vein.

Bedding is at 73° LCA at 2.50m
75° LCA at 6.60m
79° LCA at 10.10m
58° LCA at 13.80m
70° LCA at 17.60m

21.51m - 45.57

Podded biotite pyroxene hornfels

This unit goes through the normal sequence of a small heavily podded unit about 1 metre thick followed by a small well banded unit of about 2 metre. The unit then consists of a disturbed hornfels with increasing number of angular fragments and pods present in the core as the contact with the underlying pyroxene garnet hornfels unit is approached.

Between 26.00m - 26.73m the core contain large amounts of fine feldspar laths and appears more like a unit of middle volcanics.

Between 41.80m - 44.05m The core is essentially a pyroxene calcite hornfels consisting of a fine grained pyroxene rich groundmass with large numbers of calcite pods up to 8 cm in diameter present throughout.

45.57 - 57.88

Pyroxene garnet hornfels

A unit of podded pyroxene garnet hornfels with larger than normal amounts of garnet in the groundmass. There also appears to be greater development of actinolite needles in this unit than is usually found.

Scheelite mineralization is present throughout although it probably only reaches ore grade between 45.57 - 49.0m and between 52.0 - 53.0m. Very high molybdonite content is apparant in the core between

50.00 - 50.30 and 52.00 - 53.0m. These zones have a high quartz content.

57.88 - 59.90m

Disturbed biotite pyroxene hornfels

A small unit of disturbed podded biotite pyroxene

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 625/13

hornfels with minor amounts of garnet and calcite present in it.

The unit is barren of scheelite mineralization.

59.90 - 63.64

Pyroxene garnet skarn

gh → This is a podded unit of pyroxene garnet hornfels in which the garnet is dominant over the pyroxene. Below about 62.0 metres the unit would be more accurately described as a garnet skarn replacing marble.

Ore grade scheelite is present through out with the highest grade present in the garnet rich area.

63.64 - 67.53

Marble

A well bedded grey white marble. This unit is completely barren of scheelite mineralization. Some zones of recrystallized calcite are present in this unit.

Bedding is at 62° LCA at 65.7m
62° LCA at 67.0m

67.53 - 73.19

Garnet skarn

This unit consists of 3 metres of coarsely crystalline garnet skarn unit replacing an originally banded sequence. Scheelite mineralization is present throughout but the highest grades are located in the first 3 metres.

Bedding is at 67° LCA at 72.30m

73.19 - 84.34

Banded biotite pyroxene hornfels

A banded unit of biotite actinolite hornfels with minor amounts of calcite and garnet present in the first 2 metres. The actinolite is present both as bands and as irregular patches.

Between 81.50m - 82.60 m there is a zone rich in calcite and containing minor grossularite.

Bedding is at 61° LCA at 76.2m
55° LCA at 81.0m
63° LCA at 83.6m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 625/13

84.34 - 86.51

Aplite

A small aplite dyke very rich in biotite and lacking the large pink feldspars associated with the adamellite.

included blocks of biotite hornfels are apparent near the contacts.

86.51 - 87.89

Banded biotite pyroxene hornfels

A small unit of banded biotite actinolite hornfels similar to that between 73.19m - 84.34m.

87.89 - 101.83

Mineralized banded footwall beds

A banded unit consisting of biotite, pyroxene, garnet and calcite intervals. The mineralization is present in the actinolite rich zones and only reaches significant grade between

37.0m - 101.83m where garnet forms more than 50% of the core.

bedding is at 56° LCA at 90.6m
40° LCA at 93.5m
78° LCA at 96.7m

101.83 - 110.09

Banded footwall beds

A unit of unmineralized banded footwall beds consisting of alternating bands of biotite pyroxene and calcite hornfels.

Bedding is at 74° LCA at 103.5m
65° LCA at 106.0m
77° LCA at 103.8m

110.09 - 119.25

Banded biotite pyroxene hornfels

A unit of banded biotite pyroxene hornfels with minor amounts of calcite present over the last 4 metres. Some minor garnet is also apparent in the last 2 metres and some scheelite occurs in this zone.

Bedding is at 60° LCA at 112.97m
53° LCA at 116.06m
20° LCA at 118.10m

119.25 - 120.70 EOH

Adamellite

A small amount of typical Bold Head Adamellite with large pink feldspar laths.

GEOPEKO LIMITED - KING ISLAND

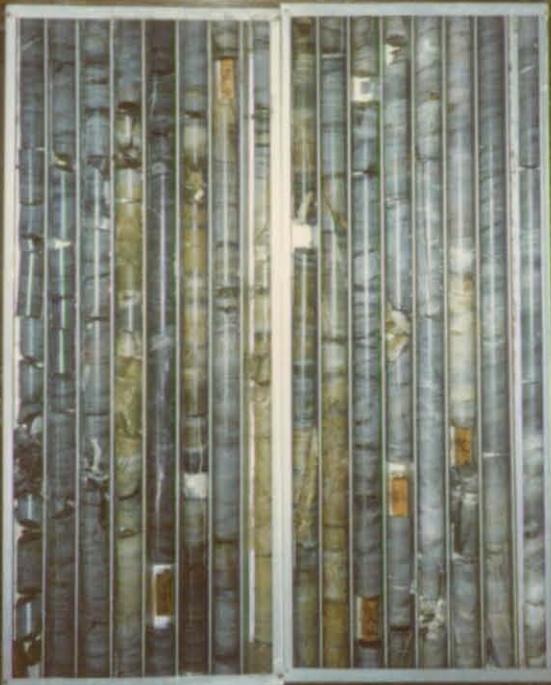
CHECK ASSAY DATA

D.D.H. B 625/13

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	
5078	0.62		5698	0.54		5699	0.86		5700	0.76		B 625/13
5086	2.45		5692	3.35		5693	3.59		5694	3.35		"
5095	0.68		5629	0.68		5630	0.84		5631	0.91		"

DDH BH 625/13

0.00 → 15.26 m.



DDH BH 625/13

15.26 → 30.20 m.



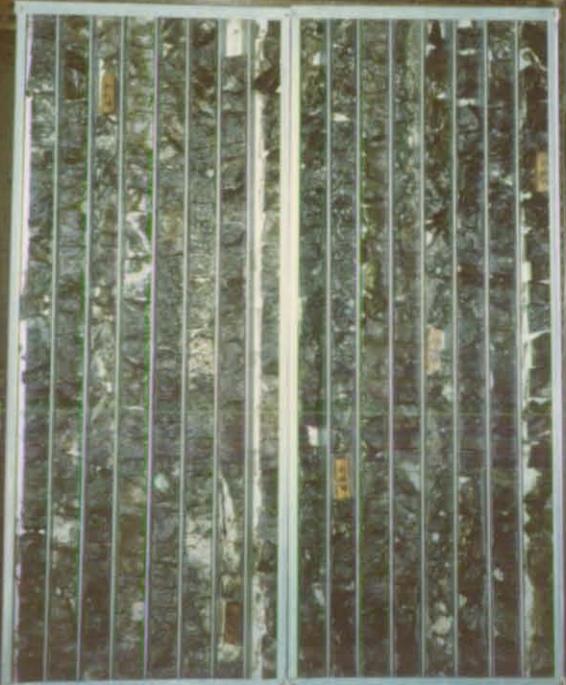
DDH BH 625/13

30.20 → 44.82 m.

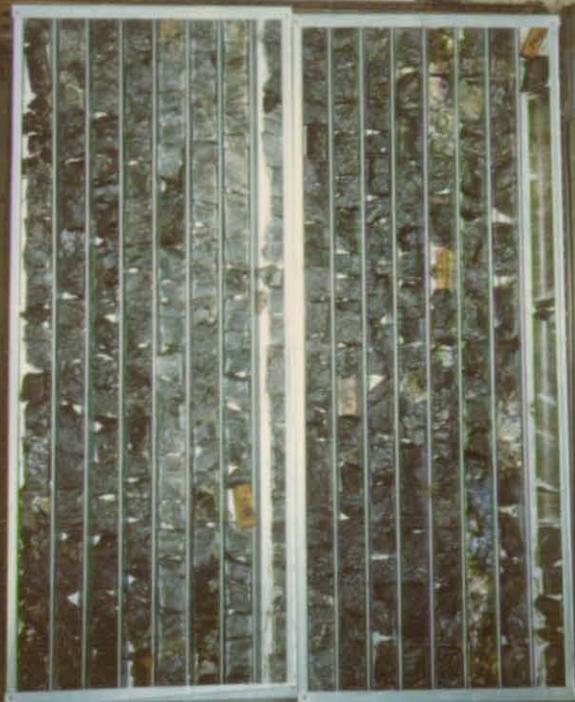


DDH BH 625/13

44.82 → 59.90 m.



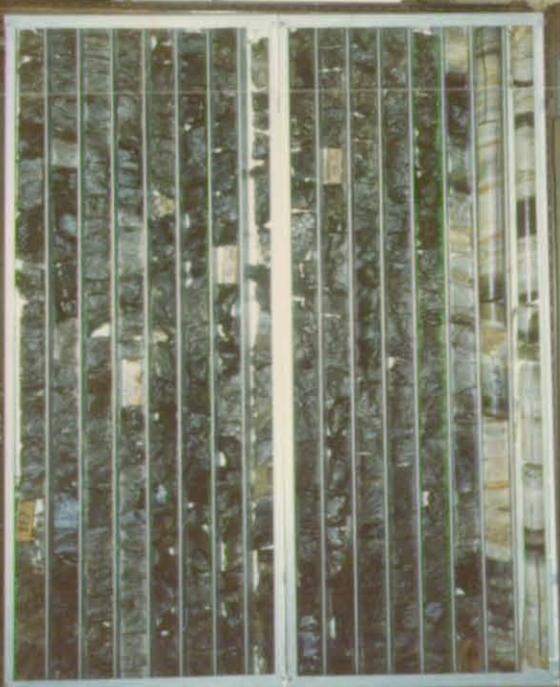
DDH BH 625/13
59.90 — 74.70 m.



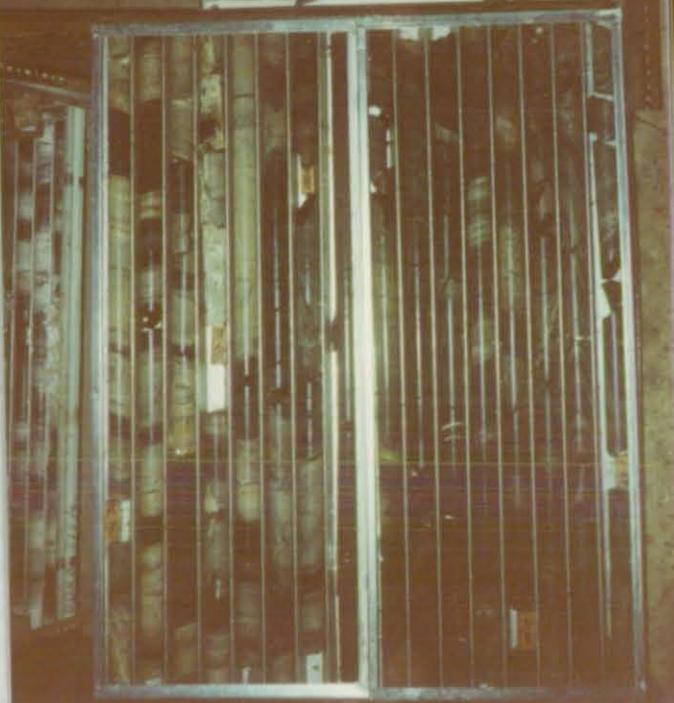
DDH BH 625/13
74.70 — 89.59 m.



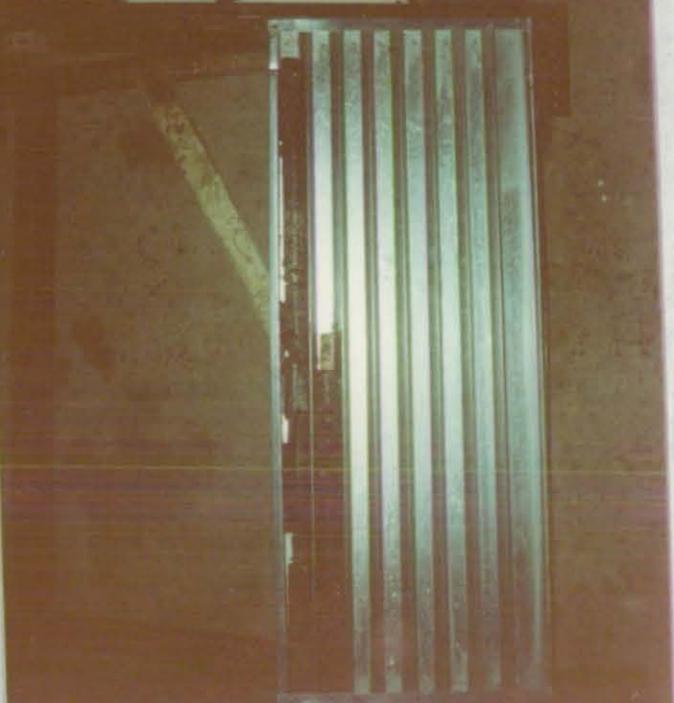
DDH BH 625/13
89.59 — 104.48 m.



DDH BH625/13
104.48-119.25m.



DDH BH625/13
120.7 - E. 01m.



GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 625/11

PLANNING

Proposer: G. Brown

Depth: 70 metres

Location: R.61

Purpose of hole: to test C₁ West

Co-ordinates: 40 355 E 10 625

Inclination: -59°

Bearing 270 Grid

Target: E

Approved by: M.C.R.

N

Magnetic:

Target Depth:

N

Date: 1-7-77

SURVEY

Survey Co-ords: Collar not Surveyed E

Survey bearing: Grid

Surveyed in by:

Actual Co-ords: E

R.L. of Collar:

Picked up by:

N

Magnetic:

Date:

N

Inclination of Hole:

Date:

SUMMARY

Logged by: M. Danielson

Results: 2 - 3 m 1 m @ 0.79% WO₃

DRILLING

Driller/Contractor: A.D.D.

Date commenced: September 1977

Date terminated: September 1977

Casing: Size: BX

Depth: 1 m

Core: Size: 46 TT

Depth: 33.0

Wedge Runoff:

Wedge placed:

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Abandoned in bad ground in Western Fault Zone.

Condition of hole on completion:

Final depth: 33.0 m

Casing: No

Cemented: No

Bore hole survey: No

Water: No

Comments on drilling conditions:

Very poor in Western Fault Zone.

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 625/11

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.1	3.1	2.5	81
5.7	2.6	2.6	100
8.7	3.0	3.0	100
11.1	2.4	2.5	104
13.7	2.6	2.6	100
16.7	3.0	3.0	100
19.7	3.0	3.0	100
22.7	3.0	3.0	100
25.7	3.0	3.0	100
27.3	1.6	1.6	100
29.2	1.9	1.9	100
30.4	1.2	1.1	92
32.7	2.3	1.8	78
33.0	0.3	0.2	67
EOH			

GEOPEKO LIMITED -

ASSAY DATA

U.D.H. No. B 625/11

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
BH 5501	1	2	1.0	0.8	<0.01	<0.01		
2	2	3	1.0	0.8	0.79	0.04		
BH 5503	3	4	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 625/11.

0 - 3.0

Garnet Pyroxene Hornfels

Very weakly mineralized, mostly a pyroxene hornfels with weak garnet development.

Bedding 3 metres 35° L.A.O.C.

3.0 - 22.7

Marble

Pale grey barren marble.

22.7 - 33.0

Biotite Pyroxene Hornfels

Barren grey brown hornfels.

Below 30.2 core is rubbly and puggy and hole was abandoned in Western Fault Zone.

33.0 metres E.O.H.

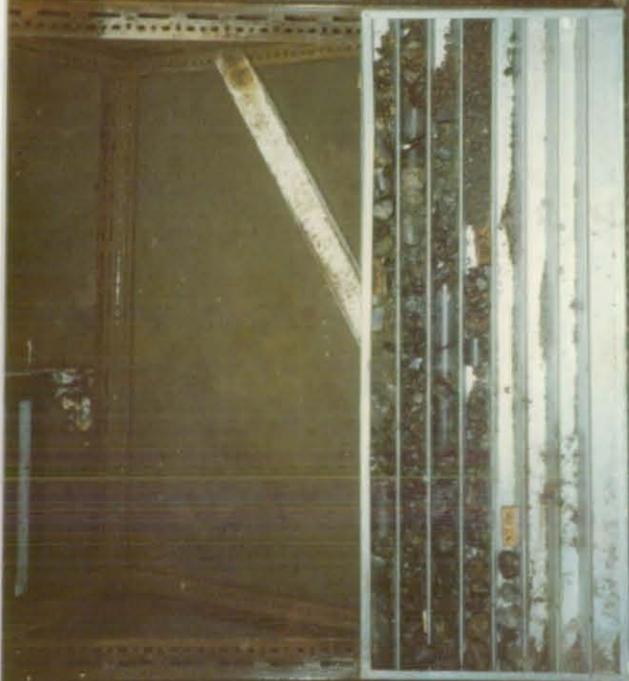
DDH BH 625/11
0.00 — 15.10 m.



DDH BH 625/11
15.10 — 29.81 m.



DDH BH 625/11
E.O.H.
29.81 — 33.00 m.



GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. 625/10

PLANNING

Proposer: S.G. Brown

Depth: 30m

Location: Surface

Purpose of hole: To test 'A' lens north.

Co-ordinates: 40350 E 10625

Inclination: -90°

Bearing 360 Grid

Target: E

Approved by: M.C. Rogers

N

Magnetic:

Target Depth:

N

Date: 19/4/77

SURVEY

Survey Co-ords: 40 350.13 E 10 625.08

Survey bearing: - Grid

Surveyed in by:

Actual Co-ords: E

R.L. of Collar: 1118.46

Picked up by: A. Grigulis

N

Magnetic:

Date:

N

Inclination of Hole: -90°

Date: 9/6/77

SUMMARY

Logged by: R. Van den Bogaart

Results: 17.1m - 20.1m

3m @ 0.11% WO₃

DRILLING

Driller/Contractor: A.D.D.

Date commenced:

Date terminated: 12/5/77

Casing: Size: HX

Depth:

Core: Size: NQ

Depth: 31.6

Wedge Runoff: -

Wedge placed: -

Proposed by: -

Reason: -

Depth:

Approved by:

Extension: Nil

Reason for termination: Entered Upper Volcanics

Condition of hole on completion:

Final depth: 31.6

Casing: pulled

Cemented: no

Bore hole survey: no

Water: no

Comments on drilling conditions: Bad

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/10

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 10.3	10.3	N11	0
11.8	1.50	0.90	60
13.3	1.50	0.25	17
14.9	1.60	0.45	28
17.1	2.20	1.12	51
20.1	3.00	0.83	28
22.1	2.00	0.22	11
24.0	1.90	0.70	37
26.0	2.00	1.67	84
28.0	2.00	1.92	96
29.2	1.20	1.30	108
31.6	2.40	2.40	100
EOH			

3010

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 625/10

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
BH4614	17.1	20.1	3.0	0.83	0.40	0.01	3m @ 0.11% WO ₃	
<p><u>NB:</u></p> <p>One intersection has been estimated. Contact between middle volcanics and 'A' lens skarn occurs between the interval 17.1 - 20.1 (28% core recovery). Contact between 'A' lens skarn and Upper Volcanics occurs between the interval 20.1 - 22.1 (11% core recovery.)</p>								

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 625/10

0.0 - 10.3

MUD AND CLAY:-

A yellow-orange clay derived from weathered Middle Volcanics.

10.3 - 19.0

WEATHERED MIDDLE VOLCANICS

This unit is weathered throughout especially in the upper portion. Initially the core is a yellow-orange clay, showing extreme weathering along joints. At approximately 15m the core becomes more green in colour and kaolinised feldspar laths may be noted. This unit has suffered much core loss, and the unit has been estimated to end at 19.0. The unit passes into 'A' lens garnet skarn between the intervals 17.1 - 20.1 which has a core recovery of 28%.

19.0 - 21.0

GARNET SKARN

An extremely weathered and leached garnet skarn. The unit has moderate scheelite mineralisation throughout. Only 0.25m of 'A' garnet skarn has been recovered. The actual length of the garnet skarn unit has been estimated as the contact between middle volcanic and 'A' lens skarn occurs between the interval 17.1 - 20.1 with only 28% core recovery and the 'A' lens unit passes into Upper Volcanics between 20.1 - 22.1m which has a core recovery of 11%.

21 - 31.6
E.O.H.

UPPER VOLCANICS

Initially the unit consist of very weathered core up to 24.0m. After 24.0m the core became the typical grey mottled Upper volcanic sequence with some patches rich in pyrrhotite.

DDH BH 625/10
00 00 - 19.94 m.

DDH BH 625/10
19.94 - 31.60 m.
E.O.H.



GEOPEKO LIMITED - KING ISLAND

62

LOG OF D.D.H. NO. Bold Head 625/9

PLANNING

Proposer: S. G. Brown

Depth: 120m

Location: P61 Drive

Purpose of hole: To test C1, C2 and D lenses.

Co-ordinates: 10402 E10625

Inclination: -85°

Bearing 090 Grid

Target: E

Approved by: M.C. Rogers

N

Magnetic:

Target Depth:

N

Date: 9/11/76

SURVEY

Survey Co-ords: 40, 400.58 E 10 623.85

Survey bearing: 94 17' Grid

Surveyed in by:

Actual Co-ords: E

R.L. of Collar: 1002.65

Picked up by: A. Grigulis

N

Magnetic:

Date:

N

Inclination of Hole: -86° 10'

Date: 19/11/76

SUMMARY

Logged by: S. Grieve Brown

Results: 48.0 - 54.0, 6m @ 0.43% WO₃ C1 lens

90 - 93m 3m @ 1.02% WO₃ D lens

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 17/11/76

Date terminated: 24/11/76

Casing: Size: Nq
Depth: 1.0

Core: Size: A 17
Depth: 113.80

Wedge Runoff:

Wedge placed: Nil

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Entered adamellite at 108.16m

Condition of hole on completion:

Final depth: 113.80m

Casing: 1.0m left

Cemented: No

Bore hole survey: Multishot

Water: Minor

Comments on drilling conditions: Good

GEOPEKO LIMITED - Bold Head

ASSAY DATA

D.D.H. No. B 625/9

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
BH4190	47.0	48.0	1.0	1.0	0.11	0.02		
1	48.0	49.0	1.0	1.0	0.44	0.03		
2	49.0	50.0	1.0	1.0	0.52	0.04		
3	50.0	51.0	1.0	1.0	0.64	0.03		
4	51.0	52.0	1.0	1.0	0.22	0.03		
5	52.0	53.0	1.0	1.0	0.41	0.02		
6	53.0	54.0	1.0	1.0	0.33	0.01		
7	54.0	55.0	1.0	1.0	0.09	"		
8	55.0	56.0	1.0	1.0	0.13	"		
4200	56.0	57.0	1.0	1.0	<0.01	"		
1	57.0	58.0	1.0	1.0	<0.01	"		
4202	89.0	90.0	1.0	1.0	<0.01	<0.01		
3	90.0	91.0	1.0	1.0	0.18	<0.01		
4	91.0	92.0	1.0	1.0	1.90	0.08		
5	92.0	93.0	1.0	1.0	0.89	0.10		
6	93.0	94.0	1.0	1.0	0.28	0.03		
4207	99.0	100.0	1.0	1.0	0.21	0.04		
8	100.0	101.0	1.0	1.0	<0.01	0.01		
9	1.1.0	102.0	1.0	1.0	0.14	0.02		

48-54m, 6m @ 0.43% WO₃

90-93m, 3m @ 1.02% WO₃

SPECIFIC GRAVITY

Determined by:

Depth (m):

Rock Type:

S.G. :

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. Bold Head 625/9

Survey method: Multishot camera

Final depth : 113.80

Casing depth : 1.0m

Depth surveyed to: 113.8m

Date surveyed: 25/11/76

Surveyed by : R. VanDen B

Checked by : R. Van den B

Depth	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
15.0	095 00'	067 00'	4 00'	86 00'	14.96	0.50	0.97
30.0	070 00'	042 00'	3 00'	87 00'	29.94	1.08	1.49
45.0	355 00'	327 00'	3 15'	86 45'	44.92	1.79	1.03
60.0	345 00'	317 00'	4.00'	86 00'	59.88	2.56	0.57
75.0	343 00'	315 00'	4.00'	86 00'	74.84	3.30	0.17
90.0	350 00'	322 00'	5.00'	85 00'	89.78	4.33	0.98
113.80	344 00'	316 00'	5.00'	85 00'	113.50	5.81	2.42

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. Bold Head 625/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.2	3.2	2.93	92
6.2	3.0	3.03	101
9.2	3.0	3.04	101
12.2	3.0	3.0	100
14.1	1.90	1.98	104
17.1	3.0	2.96	99
20.1	3.0	2.95	98
23.1	3.0	3.0	100
26.1	3.0	3.02	101
29.1	3.0	2.93	98
32.1	3.0	3.0	100
35.1	3.0	3.04	101
38.1	3.0	2.95	98
40.1	2.0	1.88	94
43.1	3.0	2.92	97
46.1	3.0	3.02	101
49.3	3.2	3.12	97.5
52.3	3.0	3.05	101.67
55.3	3.0	3.01	100.33
58.3	3.0	2.94	98.0
61.3	3.0	3.01	100.33
61.3-64.3	3.0	3.0	100
64.3-67.3	3.0	3.01	100.33
69.1	1.8	1.88	104.44
72.1	3.0	2.98	99.33
75.1	3.0	2.98	99.33
78.1	3.0	2.99	99.67
81.1	3.0	3.01	100.33
84.1	3.0	2.99	99.67
87.1	3.0	2.97	99.00
90.1	3.0	2.97	99.00
92.8	2.7	2.72	100.74
95.8	3.0	2.99	99.67
98.8	3.0	2.89	96.33
101.8	3.0	2.96	98.67
104.8	3.0	2.91	97.0
107.8	3.0	3.01	100.33
110.8	3.0	3.0	100.0
EOH 113.8	3.0	3.02	101

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Bold Head 625/9

0.0 - 21.69m

'B' LENS MARBLE

A dark grey-black marble with well developed banding present in some areas. The banding is quite disturbed in places and some pods appear to have been developed in this unit. The unit is completely barren of mineralisation except between 13.80m - 14.43m where some minor garnet and pyroxene are present in the unit.

The last 51cm of this unit are a pyroxene skarn but this contains only trace scheelite.

Bedding is at: 55° LCA at 9.8m.
49° LCA at 13.5m.

21.69 - 42.18m

PODDED BIOTITE HORNFELS

Overall this unit consists of a fine grained 'blotchy' brown purple to grey coloured biotite hornfels with an irregular distribution of pods occurring through out.

The first metre is badly broken and sheared with a calcite cement on the joints.

Between 22.69 - 23.50m the core is banded and contains pyroxene bands and grey-salmon coloured quartz rich bands. Faults are present at:

Moderate 26.69m - 26.86m calcite filled 12 LCA
Minor 37.60m - calcite filled 27 LCA

42.18m - 44.58m

PODDED PYROXENE GARNET CALCITE HORNFELS

A disturbed unit of dark green fine grained rock type with large pods of calcite present through out. Garnet is present only as rims around the calcite pods.

Only trace scheelite is present here. At 43.59 a minor fracture occurs at 15LCA.

44.58m - 47.06

BIOTITE HORNFELS

A small unit of biotite hornfels with minor pyroxene present as disturbed pods at about 46m.

This unit is barren.

47.06 - 56.63

PODDED PYROXENE GARNET HORNFELS

A disturbed unit of pyroxene garnet hornfels with large amounts of calcite present as irregular pods which occur through out the unit.

Scheelite is present as discrete crystals through out this unit but the overall grade for any ore metre probably will not reach ore grade.

At 52.3 metres there is some minor broken core which may indicate a small fault zone.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

Bold Head 625/9

D.D.H. No.

56.63 - 56.94m

APLITE

A small unit of altered aplite.

56.94 - 57.28m

FAULT ZONE

A zone of calcite in filling with minor fragments of pyroxene hornfels present through out. Fault is at 16° LCA.

57.28- 64.98m

PODDED BIOITE PYROXENE HORNFELS

In this unit, pyroxene is by far the dominant member with lesser amounts of biotite present in the groundmass. Irregular pods of calcite and associated garnet occur throughout.

This unit contains only trace scheelite between 63.52 - 64.30m.

Between 57.28 - 58.30m the core is quite broken and secondary calcite is apparent in this area indicative of a possible fault.

A major calcite filled fracture, possible minor fault occurs between 59.39 - 59.71m. This occurs at 12° LCA.

64.98 - 69.39m

PODDED PYROXENE CALCITE HORNFELS

This unit contains minor garnet, with calcite being the dominant member of the unit.

This unit appears to be gradational between the unit above and the unit below.

69.39 - 94.75m

BANDED FOOTWALL BEDS

This is a banded unit of biotite pyroxene garnet calcite hornfels in which the calcite bands form the majority of the unit. Garnet is present in erratic amounts both within the calcite bands and in some areas as skarn bands containing high grade scheelite.

Initially the unit shows considerable disturbance of the bedding but this decreases rapidly and below about 74m is almost non existent.

Scheelite rich arnet bands occur between:

71.40 - 71.66m

76.24 - 76.59m

90.72 - 93.28m

Only the last area contains sufficient width to be worth sampling.

Bedding is at:

- 55° LCA at 70.0m
- 56° LCA at 71.2m
- 59° LCA at 76.9m
- 63° LCA at 79.1m
- 56° LCA at 82.1m
- 81° LCA at 85.1m
- 66° LCA at 86.8m

Between 75.73 - 76.24m there is a small aplite dyke.

Minor fractures occur at 68.37m @ 17 LCA

88.60m @ 14 LCA

This unit terminates in a fault which cuts off the bedded unit and occurs at 14 LCA.

GEOPEKO LIMITED. - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. Bold Head 625/9

94.75 - 98.58

BIOTITE PYROXENE HORNFELS

The first 30cm of this unit are quite heavily fractured due to the fault mentioned above.

Overall the unit broken and recemented with calcite, the whole unit having a slightly weathered look to it. A further breccia zone occurs between 97.50 - 97.70m and this is probably also due to faulting.

The unit consists of a broken bedded unit of biotite pyroxene hornfels with minor calcite bands present in it. Garnet is associated with some of the calcite bands. Bedding is at 68° LCA at 96.8m

98.58 - 101.84m

BANDED FOOTWALL BEDS

These beds which consist of alternating bands of calcite biotite, pyroxene and garnet hornfels show minor signs of weathering.

Scheelite is present in the garnet bands between 99.0m - 101.2m but this will not reach ore grade over a 1 metre split since there are too few garnet bands in this unit. BEDDING is at 68° LCA at 99.7m.

101.84 - 108.16m

BANDED BIOTITE PYROXENE HORNFELS

This is a banded unit of slightly weathered biotite pyroxene hornfels with a large number of fine irregular fractures present through out.

This unit is barren.

Bedding is at 72° LCA at 103.5m
38° LCA at 106.2m

108.16 - 113.80m

E.O.H ADAMELLITE

A slightly redder coloured adamellite than is normally encountered in Bold Head.

Initially a very fine grained contact over the first metre and a half but much more normal below this.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 9 BH 625/9

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 4190	0.11		BH 4410	0.17		BH 4411	0.17		BH 4412	0.11	

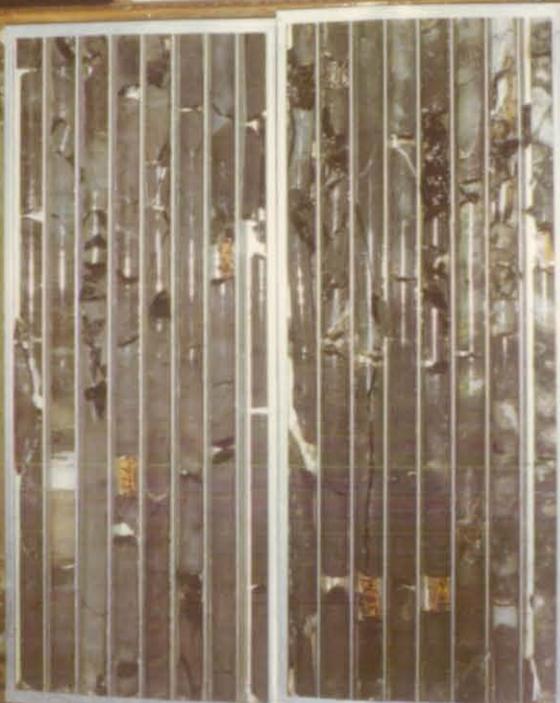
DDH BH 625/9
00.00 - 14.88m.



DDH BH 625/9
14.88 - 29.10m.



DDH BH 625/9
29.10 - 43.40m.



DDH BH 625/9
43.40 - 58.09m.



DDH BH 625/9

58.09 → 72.55 m.



DDH BH 625/9

72.55 → 87.97 m.



DDH BH 625/9

87.27 → 101.92 m.



DDH BH 625/9

101.92 → 113.80 m.
EOH



GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 625/8

PLANNING

Proposer: S.G. Brown

Depth: 130m

Location: R61 Drive

Purpose of hole: To test mineralisation in C1, C2 and D lenses

Co-ordinates: 10355 E 10625

Inclination: -79

Bearing 090 Grid

Target: E

Approved by: M.C. Rogers

N

Magnetic:

Target Depth:

N

Date: 9/11/76

SURVEY

Survey Co-ords: 40 354.79 E 10624.67

Survey bearing: 98° 39' Grid

Surveyed in by:

Actual Co-ords: E

R.L. of Collar: 1000.25

Picked up by: A. Grigulis

N

Magnetic:

Date:

N

Inclination of Hole: -76°

Date: 8/12/76

SUMMARY

Logged by: S.G. Brown

Results: 58.0 - 61.0 3m @ 0.80 % WO₃

70.0 - 73.0 3m @ 0.66 % WO₃

91.0 - 97.0 5m @ 0.42 % WO₃

DRILLING

Driller/Contractor: A.D.D

Date commenced: 24/11/76

Date terminated: 1/12/76

Casing: Size: NQ
Depth: 1.0

Core: Size: A17
Depth: 122.0

Wedge Runoff:

Wedge placed:

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: entered adamellite

Condition of hole on completion:

Final depth: 122.0m

Casing: Pulled

Cemented: No

Bore hole survey: Multishot camera

Water:

Comments on drilling conditions:

good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. 625/8

Survey method: Multishot

Final depth : 122m

Casing depth : 1.0m

Depth surveyed to: 122.0m

Date surveyed: 2/12/76

Surveyed by : L. Denby

Checked by : 56B S.C.B

Depth	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
15	0 89°	0 61°	11°	11° 79	14.72m	1.39	2.50
18	0 85°	0 57°	11°	11° 79	17.66	1.70	2.98
27	0 80°	0 52°	8° 15'	8° 15' 81 75	26.57	2.49	4.00
30	0 78°	0 50°	8°	8° 82	29.54	2.76	4.32
45	0 72°	0 44°	7° 15'	7° 15' 92 75	44.42	4.12	5.63
60	0 74°	0 46°	7°	7° 83	59.81	5.39	6.95
75	0 74°	0 46°	7° 30'	7° 30' 82 50	74.18	6.75	8.36
90	0 72°	0 44°	7°	7° 83	89.07	8.07	9.63
105	0 69° 30'	0 41° 30'	7°	7° 83	103.96	9.44	10.84
122	0 62°	0 34°	7° 45'	7° 45' 82 25	120.80	11.34	12.12

REMARKS:

ASSAY DATA

D.D.H. No.

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
BH 4216	43.0	44.0	1.0	1.0	<0.01	<0.01	
7	44.0	45.0	1.0	1.0	0.74	0.02	C ₁
8	45.0	46.0	1.0	1.0	0.17	<0.01	
9	46.0	47.0	1.0	1.0	0.16	<0.01	
20	47.0	48.0	1.0	1.0	0.24	<0.01	
1	48.0	49.0	1.0	1.0	0.34	0.01	C ₁
2	49.0	50.0	1.0	1.0	0.22	<0.01	
3	50.0	51.0	1.0	1.0	0.14	<0.01	
4	51.0	52.0	1.0	1.0	0.10	<0.01	
5	52.0	53.0	1.0	1.0	0.22	<0.01	
6	53.0	54.0	1.0	1.0	0.07	<0.01	
7	54.0	55.0	1.0	1.0	<0.01	<0.01	
8	55.0	56.0	1.0	1.0	<0.01	<0.01	
9	56.0	57.0	1.0	1.0	<0.01	<0.01	
30	57.0	58.0	1.0	1.0	0.02	<0.01	
1	58.0	59.0	1.0	1.0	0.35	0.01	
2	59.0	60.0	1.0	1.0	0.63	0.01	3m 58.0 - 61.0m @ .80% WO ₃
3	No sample						
4	60.0	61.0	1.0	1.0	1.43	0.03	
5	61.0	62.0	1.0	1.0	<0.01	<0.01	
6	69.0	70.0	1.0	1.0	<0.01	<0.01	
7	70.0	71.0	1.0	1.0	0.77	0.04	
8	71.0	72.0	1.0	1.0	0.89	0.02	3m 70.0 - 73.0m @ .66% WO ₃
9	72.0	73.0	1.0	1.0	0.33	<0.01	
4240	73.0	74.0	1.0	1.0	0.08	<0.01	
1	74.0	75.0	1.0	1.0	0.05	<0.01	
2	75.0	76.0	1.0	1.0	0.13	<0.01	
3	76.0	77.0	1.0	1.0	<0.01	<0.01	
4	88.0	89.0	1.0	1.0	0.23	<0.01	
5	89.0	90.0	1.0	1.0	0.01	<0.01	
6	90.0	91.0	1.0	1.0	<0.01	<0.01	
7	91.0	92.0	1.0	1.0	0.58	0.01	
8	92.0	93.0	1.0	1.0	0.55	0.01	
9	93.0	94.0	1.0	1.0	0.24	<0.01	6m 91.0 - 97.0m @ 0.42% WO ₃
50	94.0	95.0	1.0	1.0	0.37	0.01	
1	95.0	96.0	1.0	1.0	0.22	0.01	
2	96.0	97.0	1.0	1.0	0.58	0.02	
3	97.0	98.0	1.0	1.0	<0.01	<0.01	

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	2.81	93.67
6.0	3.0	3.02	100.67
8.1	2.1	2.10	100.00
11.1	3.0	2.92	97.33
14.1	3.0	2.99	99.67
17.1	3.0	3.03	101.00
20.1	3.0	3.04	101.33
23.1	3.0	2.97	99.00
26.1	3.0	2.99	99.67
29.1	3.0	3.01	100.33
32.1	3.0	3.02	100.67
35.1	3.0	2.99	99.67
38.1	3.0	3.02	100.67
41.1	3.0	3.00	100.00
43.1	2.0	2.02	101.00
46.1	3.0	2.98	99.33
49.1	3.0	3.00	100.00
52.1	3.0	2.99	99.67
55.1	3.0	2.79	93.00
58.1	3.0	3.01	100.33
61.1	3.0	3.01	100.33
64.1	3.0	3.01	100.33
67.1	3.0	2.94	98.00
70.1	3.0	3.07	102.33
71.7	1.6	1.61	100.63
74.7	3.0	2.97	99.00
77.7	3.0	3.01	100.33
80.7	3.0	2.97	99.00
83.7	3.0	2.98	99.33
86.7	3.0	3.03	101.00
89.7	3.0	2.98	99.33
92.7	3.0	2.97	99.00
95.7	3.0	2.98	99.33
97.9	2.2	2.22	100.91
100.9	3.0	3.00	100.00
104.0	3.1	3.00	100.00
107.00	3.0	3.01	100.33
110.0	3.0	3.03	101.00
113.0	3.0	3.03	101.00
116.0	3.0	3.02	100.67
119.0	3.0	2.98	99.33
122.0	3.0	3.00	100.00

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 625/8

0.00 - 19.08

MARBLE

This unit is dominantly a typical grey-black fine grained recrystallised marble with minor bedding apparent in it.

Mineralised marble containing quite large amounts of pyroxene with trace garnet and very occasional scheelite occurs between 3.03 - 3.77m

4.50 - 8.28m

No ore grade material is present and the whole unit is quite disturbed.

19.08 - 22.97

BANDED BIOTITE PYROXENE HORNFELS

This unit which grades into the underlying unit is essentially a fine grained brown purple biotite hornfels with minor bands of light green pyroxene hornfels.

Bedding is at 51° LCA at 21.3m

22.97 - 43.89

PODDED BIOTITE PYROXENE HORNFELS

Initially this unit contains only very minor amounts of calcite present as small pods usually with some grossular garnet present at the edges. Below about 41.5m the amounts of calcite pods increase although they are still a minor constituent.

43.89 - 54.82

PODDED PYROXENE GARNET HORNFELS

A typical unit of podded pyroxene garnet hornfels with quite large numbers of irregular calcite pods present throughout. Moderate amounts of garnet, mainly andradite are present in this unit and disseminated scheelite crystals occur associated with the more garnet rich zones.

Minor fractures occur at 45.9m and 45.8m while the core is badly broken between 53.93-54.20m and 54.80m to 55.1m. No obvious major faults are apparent.

54.82 - 57.38

PODDED BIOTITE PYROXENE HORNFELS

A small unit of fine grained biotite pyroxene hornfels with some minor pods of calcite with associated garnets.

This unit is unmineralised.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 625/8

57.38 - 60.61

PYROXENE GARNET SKARN

Initially this unit is a podded pyroxene garnet hornfels but below 58.4m it is almost completely andradite garnet skarn.

Good scheelite is present throughout this unit and the last metre and a half of this unit looks as if it is skarn replacing the marble unit which underlies it.

60.61 - 70.11

MARBLE

A fine grained well bedded light grey recrystallised marble.

This is the normal C lens marble and as usual is completely barren.

Bedding is at 64° LCA at 64.4m
47° LCA at 67.5m

70.11 - 72.32

GARNET SKARN

A fine grained garnet skarn containing high grade scheelite. This skarn grades rapidly into the overlying marble and gradually into the underlying unit.

72.32 - 75.98

BANDED PYROXENE GARNET HORNFELS

A finely banded unit with initially garnet bands predomatory, the number of these bands decreases to 75.98m where they make up about 50% of the units.

Scheelite mineralisation, probably sub grade is present in this area.

Bedding is at 55° LCA at 72.9m
57° LCA at 75.7m

75.98 - 89.16

BANDED BIOTITE PYROXENE HORNFELS

This unit is dominantly a brown purple biotite hornfels with fine bands of pyroxene rich material present through it in irregular amounts. Between 82.30 and 83.60m there is a small zone rich in pyroxene and calcite with minor garnet.

Between 85.55m - 87.91m there is a small unit of extremely biotite rich aplite.

Bedding is at 69° LCA at 79.9m
68° LCA at 84.6m
70° LCA at 88.55m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 625/8

89.16 - 110.31

BANDED BIOTITE PYROXENE GARNET CALCITE HORNFELS

A typical banded footwall beds sequence with scheelite mineralisation present in the garnet rich bands. None of this unit appears to be ore grade over a 1 metre split, but the area between 89.20 - 96.80m contains minor to moderate scheelite overall.

Below 96.80m the core is more marble rich and the amount of garnet present decreases quite noticeably.

Between 97.28 to 99.03 the core is extremely broken and leached the first 20cm being a breccia zone with calcite cement between the fragments.

Bedding is at 75° LCA at 94.5m
73° LCA at 100.8m
71° LCA at 107.3m

110.31 - 116.73

BANDED BIOTITE PYROXENE HORNFELS

A finely banded unit of biotite and pyroxene hornfels with minor bands of calcite and garnet hornfels present in some areas.

This unit is a continuation of the unit above but with much less marble present in it.

Minor scheelite occurs associated with the garnet bands.

Bedding is at 40° LCA at 111.9m
38° LCA at 114.8m

The core is quite broken and fractured at 116.27m.

116.73 - 122.0E.O.H.

ADAMELLITE

A very contaminated unit of adamellite with irregular sedimentary xenoliths present in it.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

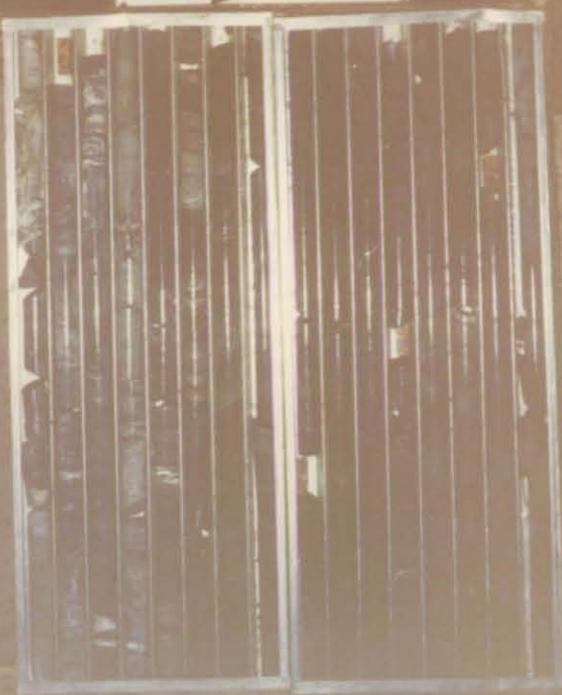
D.D.H. BH 625/8

LAB. Original Sample No.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.		
	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo
BH 4217	0.74	0.02	2484	0.75		2485	0.83		2486	0.92	
BH 4231	0.35	0.01	2487	0.25		2488	0.36		2489	0.33	
BH 4249	0.24	<0.01	2490	0.21		2491	0.31		2492	0.29	

DDH BH 62518
C-00-14-88 m.



DDH BH 62518
1488-303 m.



DDH BH 62518
303-450 m.



DDH BH 62518
450-595 m.



DDH BH 625/8
5946-7415 m.



DDH BH 625/8
7415-8905 m.



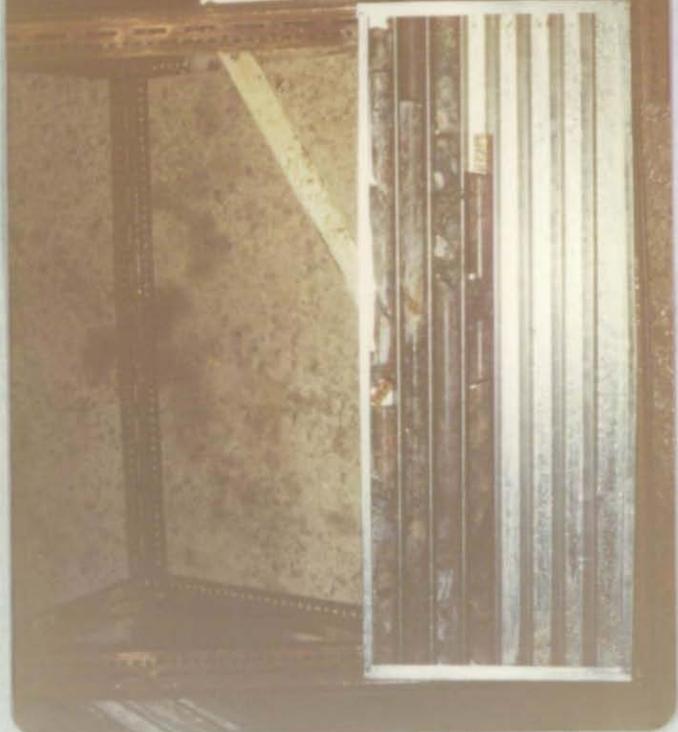
DDH BH 625/8
8905-10388 m.



DDH BH 625/8
10388-11870 m.



DDH BH 625/8
118-70-122 m.
→ (FOH)



GEOPEKO LIMITED - KING ISLAND
LOG OF D.D.H. NO. BH 625/7

PLANNING

Proposer: S.G. Brown

Depth: 17m.

Location: N 52 drive

Purpose of hole: To test the grade and thickness of the Boundary Orelt.

Co-ordinates: 10394 E 10622

Inclination: +50°

Bearing 090° Grid

Target: E

Approved by: M.C. Rogers

N

Magnetic:

Target Depth:

N

Date: 25/5/76

SURVEY

Survey Co-ords: E

Survey bearing: 88°48' Grid

Surveyed in by:

Actual Co-ords: 10 396.12 E 10 621.80

R.L. of Collar: 1024.23

Picked up by: J. Cook

N

Magnetic:

Date:

N

Inclination of Hole: +51°08'

Date: 7/7/76

SUMMARY

Logged by: S.G. Brown

Results: 8.0 - 11.0m, 3m @ 2.56% WO₃

DRILLING

Driller/Contractor: Geopeko

Date commenced: 8/6/76

Date terminated: 11/6/76

Casing: Size: Nil

Depth:

Core: Size: E 17.

Depth: 14.26

Wedge Runoff:

Wedge placed:

Proposed by:

Reason:

Depth:

Approved by:

Extension: Nil

Reason for termination: Entered quartzites.

Condition of hole on completion:

Final depth: 14.26

Casing: Nil

Cemented: No

Bore hole survey: No.

Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 625/7

Survey method :
Final depth :
Casing depth :

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

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates		
	Grid	Mag.	Read	Corrected				
	HOLE NOT SURVEYED							

REMARKS:

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. BH 625/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.30	1.30	1.30	100
2.82	1.52	1.56	103
5.14	2.32	2.34	101
7.07	1.93	1.94	101
8.97	1.90	1.91	101
10.90	1.93	1.89	98
11.60	0.70	0.70	100
12.90	1.30	1.30	100
14.26	1.36	1.35	99
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 625/7

SAMPLE No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo	
3301	7.0	8.0	1.0	1.0	0.01	0.01	
2	8.0	9.0	1.0	1.0	3.40	0.11	
3	9.0	10.0	1.0	1.0	0.28	0.01	
4	10.0	11.0	1.0	1.0	5.20	0.23	
NB. Assays 3303 and 3304 probably reversed.							

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 625/7

0.0 - 2.98

APLITE

A finely crystalline unit of grey - white aplite with quite high biotite content.

There are zones of mafic enrichment present in this unit.

2.98 - 7.51

MIDDLE VOLCANICS

A unit of brown purple middle volcanics with well developed white feldspar laths present in some areas.

Some irregular light grey green presumably pyroxene rich bands are present in this unit.

7.51 - 7.9599

NO. 2 FAULTED MIDDLE VOLCANICS

A small zone of Middle volcanics with clinohumite present in fracture zones.

7.59 - 10.59

PYROXENE GARNET HORNFELS

A unit of disturbed banded pyroxene garnet hornfels with a large silicified zone rich in sulphides and scheelite present between 7.96 - 9.28m.

Bedding at 9.40m is 36° L.C.A.

10.59 - 14.26

QUARTZITES

A series of light grey fine grained quartzites with some interbedded dark grey siltstones.

14.26 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 0 BH 625/7

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 3303	0.28		BH 1748	0.36		BH 1749	0.40		BH 1750	0.39		
3304	5.20		1751	4.69		1752	4.65		1753	3.28		



GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 625/6

PLANNING

Proposer: S.G. Brown.

Depth: 20m.

Location: 'B' lens decline.

Purpose of hole: To test for ore west of the Western fault.

Co-ordinates: 10337 E 10629.6 N

Inclination: +34° Magnetic

Bearing: approx. 270° Grid Target depth:

Target: E N

Approved by: M.C. Rogers. Date:

SURVEY

Survey Co-ords: E N

Survey bearing: Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 10 336.67 E 10 631.31 N

R.L. of collar: 1001.802 Inclination of hole:

Picked up by : R.J.H. Date: 1st May, 1975.

SUMMARY

Logged by : S.G. Brown.

Results: Failed to reach target due to priority of area for mining.

DRILLING

Driller/Contractor: GEOPEKO

Date commenced:

Date terminated:

Casing: Size : NIL

Depth :

Core: Size : E.17

Depth : 9.80

Wedge Runoff:

Wedge placed: Nil.

Depth:

Proposed by :

Approved by:

Reason:

Extension: Nil.

Reason for termination: Area required for mining. Final depth: 9.80m.

Condition of hole on completion:

Casing : Nil.

Cemented : No.

Bore hole survey: No.

Water: Yes.

Comments on drilling conditions: Broken ground to 8m.

GEOPEKO LIMITED - BOLD HEAD MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 625/6

Survey method :
Final depth :
Casing depth :

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

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		E	N
			HOLE	NOT	SURVEYED		

REMARKS

GEOPEKC LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 625/6

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 - 9.80	bph/ Chm/	15+		Carbonate @ 0.60 Chlorite @ 1.34 Carbonate, chlorite @ 2.40		72	15	Rubble between the interval 2.47 - 9.80. Ground is mainly imcom- petent. Very poor ground conditio- ns.

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 1.54	1.54	1.66	107
2.47	0.93	0.87	94
3.65	1.18	0.52	44
4.30	0.85	0.96	112
6.30	1.80	1.10	61
7.56	1.26	0.18	14
8.00	0.44	0.40	90
9.80	1.80	1.37	76
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 625/6

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
				NO CORE	ASSAYED.				

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 625/6

0 - 0.86m

BIOTITE GARNET HORNFELS

A banded unit in which garnet skarn is dominant with minor biotite bands.

0.86 - 8.06m

FAULT ZONE

A zone of very broken and leached marble with large amounts of clay present through out. Very poor core recovery of about 5m through this area.

8.06 - 9.80m

MINERALIZED MARBLE

A disturbed marble unit with minor garnet and trace scheelite. This would underly 'B' lens main most probably.

9.80m E.O.H.



GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 625/5

PLANNING

Proposer: S.G. Brown.

Depth: 20m.

Location: 'B' Lens decline.

Purpose of hole: To test the throw of the western fault.

Co-ordinates: 10337 E 10629.6 N
Inclination: ^{+55°} Magnetic
Bearing: approx. 270° Grid Target depth:
Target: E N

Approved by: M.C. Rogers.

Date:

SURVEY

Survey Co-ords: E N
Survey bearing: Grid Magnetic
Surveyed in by: Date:

Actual Co-ords: 10 337.09 E 10 631.24 N

R.L. of collar: 1002.62

Inclination of hole:

Picked up by : R.J.H.

Date: 1 May, 1975.

SUMMARY

Logged by : S.G. Brown.

Results: Intersected LV. overlying B lens West. at 5.85m.

DRILLING

Driller/Contractor: GEOPEKO

Date commenced:

Date terminated:

Casing: Size : NIL

Depth :

Core: Size : E17

Depth : 8.95

Wedge Runoff:

Wedge placed: Nil

Depth:

Proposed by :

Approved by:

Reason:

Extension: No.

Reason for termination: Entered LV. above B lens. Final depth: 8.95m.

Condition of hole on completion:

Casing : Nil

Cemented : No.

Bore hole survey: No.

Water: Yes.

Comments on drilling conditions: Bad ground through fault zone.

GEOPEKO LIMITED - BOLD HEAD MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 625/5

Survey method :
Final depth :
Casing depth :

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

DEPTH	Bearing		Inclination		True Vertical Depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		E	N
			HOLE	NOT	SURVEYED		

REMARKS

GEOPEKC LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 625/5

Depth Interval (mètres)	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 - 8.95	Banded bph/ middle volcanics/ banded bph/ Lower volcanics	9		Chlorite, carbonate @ 0.40 chlorite @ 2.57 carbonate, @ 6.44 carbonate, chlorite @ 7.40.	47° @ 5.20	92	61	Rubble between intervals 3.11 - 5.10 5.60 - 5.70 Poor ground conditions.

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/5

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	RECOVERED % CORE
0 - 1.90	1.90	1.74	92
3.11	1.21	1.20	999
3.48	0.37	0.40	102
3.96	0.48	0.46	96
4.48	0.52	0.34	65
5.10	0.62	0.35	56
6.30	1.20	1.10	92
8.95	2.65	2.58	97
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 625/5

0 - 0.64m

BANDED BIOTITE PYROXENE HORNFELS

This is the unit which overlies 'B' lens main. Some minor garnet bands are present here with moderate mineralization.

Bedding at 52° L.C.A. at 0.25m.

0.64 - 3.11m

MIDDLE VOLCANICS

Middle volcanics with well developed feldspar laths apparent in this unit.

3.11 - 4.24m

FAULT ZONE

Zone of very broken ground, most of the material was recovered as gravel. Some minor amounts of garnet skarn was recovered here.

4.24 - 5.85m

BANDED BIOTITE PYROXENE HORNFELS

This is similar to the unit overlying 'B' lens skarn east of the fault, and contains minor skarn horizons.

Bedding is at 50° L.C.A. at 5.50m.

5.85 - 8.95m

LOWER VOLCANICS

Typical dark black lower volcanics with well developed feldspar laths visible throughout.

At 8.57m a small calcite filled fracture is apparent.



GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 625/4

PLANNING

Proposer: S.G. Brown. Depth: 100m.
Location: 10625N cuddy in N52. drill drive.

Purpose of hole: To test C lens on 10625N at about 10350E.

Co-ordinates: 10394E E 10622N N
Inclination: -55° Magnetic
Bearing: 270° Grid Target depth:
Target: E N
Approved by: M.C. Rogers Date: 4/2/75

SURVEY

Survey Co-ords: E N
Survey bearing: $-X$ Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 10 390.69 E 10621.15 N
R.L. of collar: 1019.55 Inclination of hole:
Picked up by : J.. Cook. $-55^{\circ} 39' 57''$
Date: 12/2/75

SUMMARY

Logged by : S.G. Brown.
Results: 22 - 23m, 1m @ 0.32% WO_3
78 - 81m, 3m @ 0.87% WO_3
98 - 103m, 5m @ 0.88% WO_3 99 - 103 4m @ 1.03

DRILLING

Driller/Contractor: A.D.D.
Date commenced: 9/2/75 Date terminated: 12/2/75

Casing:	Size :	NX		
	Depth :	1.52		
Core:	Size :	NQ	BQ	
	Depth :	0.60	110.64	

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

Extension: NIL

Reason for termination: Hole passed through Final depth: 110.64m
Condition of hole on completion: mine series rocks and into adamellite.
Casing : 1.52m NX remains.
Cemented : No.

Bore hole survey: Surveyed to 109.73m.

Water: Normal water return throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - BOLD HEAD MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO. BH. 625/4

Survey method : Multishot camera.

Final depth : 110.64m.

Casing depth : 1.52m.

Depth surveyed to : 109.73m.

Date surveyed : 12/2/75

Surveyed by : V. Powell.

Checked by : G.L. Buckland.

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	M3g.	Read	Corrected		S	W
15.24	272°	244°	36°	-54°	12.38	4.49	7.66
30.48	272°30'	244°30'	36°	-54°	24.71	8.29	15.77
45.72	273°	245°	36°30'	-53°30'	36.97	12.12	23.95
91.44	274°15'	246°15'	39°	-51°	73.06	23.77	49.48
109.73	274°30'	246°30'	39°30'	-50°30'	87.26	28.33	60.07

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. BH 625/4

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 20.42	Lower volcanics	5		minor pyrite @ 12.80		99	92	0 - .60: rubble; collaring in 18.85 - 18.93: Fault? calcite and clinohumite in filling.
20.42 - 47.85	phg skarn/ marble	4		carbon- ate dominant e.g. @ 30.60, 31.90, 44.13.	23.5m:54° 26.5m:53° 32.5m:53° 37.0m:55° 41.5m:57° 45m:55°	99	93	33.68 - 34.00: a zone of broken core, has some secondary carbonate, infilling. Bad ground: 26.35 - 26.56.
47.85 - 80.54	ph/ banded bph/ podded bph/ podded ph/ gh	4		carbonate @ 62.09	50.5m:62°	99	93	80.0 - 80.54: core is weakly leached. 70.94 - 70.96 & at 71.02: core is fractured & carbonate recemented.

FURTHER DATA & REMARKS (Compression Tests)

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core } > 10\text{cms}}{\text{length recovered}}$
drilled
- Core size. 0 - 0.60 NQ
 0.60 - 110.64 BQ

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D. D. H. NO. BH 625/4

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
47.85 - 80.54 (continued.)								72.10 - 72.13 & 76.37 - 76.39: Core is fractured and calcite & clinohumite filled. Faults?
80.54 - 82.20	gh	20		carbonate @ 82.0		87	14	Core has little structural strength. (badly broken & strongly leached).
82.20 - 103.00	gh/ podded bph/ gh	7		carbonate @ 84.55 chlorite @ 84.90 At 95.82 have a 2cm wide clay (?) infilling.		99	84	bad ground: 90.03 - 90.15, 102.31 - 102.51. Weakly leached core: 97.83 - 98.30, 101.40 - 102.50

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. BH 625/4

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
103.00 - 110.64	Adamellite	8		chlorite/ clay @ 108.40.		100	71	bad ground: 107.37 - 107.50. Core leached: 107.60 - 107.30.

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.13	2.13	2.16	101
5.18	3.05	3.02	99
8.23	3.05	3.06	100
11.28	3.05	2.99	98
14.33	3.05	2.99	98
17.37	3.05	2.99	98
17.37	3.04	3.06	101
20.42	3.05	3.00	98
23.47	3.05	2.99	98
26.52	3.05	3.04	100
29.57	3.05	2.93	96
32.61	3.04	2.94	97
35.66	3.05	3.14	103
38.71	3.05	3.02	99
41.76	3.05	3.02	99
44.81	3.05	3.04	100
47.85	3.04	3.02	99
50.90	3.05	3.02	99
53.95	3.05	2.95	97
57.00	3.05	3.05	100
60.05	3.05	3.00	98
63.09	3.04	3.01	99
66.14	3.05	3.05	100
69.19	3.05	3.05	100
72.24	3.05	3.00	98
75.29	3.05	2.93	96
78.33	3.04	3.06	101
81.38	3.05	2.99	98
84.43	3.05	2.90	95
87.48	3.05	3.08	101
90.07	2.59	2.50	97
90.53	0.46	0.53	115
93.57	3.04	3.10	102
96.62	3.05	3.01	99
99.67	3.05	3.08	101
102.26	2.59	2.56	100
102.41	0.15	0.10	67
102.72	0.31	0.32	100
104.70	1.98	1.88	95

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 107.59	2.89	2.98	103
108.81	1.22	1.14	93
110.64	1.83	1.93	105

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No BH 625/4

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D0711	21	22	1.0	1.0	0.22	0.04			
D0712	22	23	"	"	0.32	0.05			22 - 23, 1m @ 0.32% WO ₃ 0.05% Mo
D0713	77	78	"	"	0.15	0.04			
4	78	79	"	"	0.78	0.05			78 - 81m, 3m @
5	79	80	"	"	0.94	0.06			0.87% WO ₃ 0.06% Mo
6	80	81	"	"	0.94	0.06			
7	81	82	"	"	0.04	0.02			
8	82	83	"	"	0.11	0.03			
9	83	84	"	"	0.13	0.03			
20	84	85	"	"	0.03	0.03			
1	85	86	"	"	0.11	0.03			
D0722	86	87	"	"	0.10	0.03			
D0723	97	98	"	"	0.15	0.03			
4	98	99	"	"	0.28	0.04			98 - 103m, 5m @
5	99	100	"	"	1.62	0.14	4m		0.88% WO ₃ 0.08% Mo
6	100	101	"	"	0.94	0.08	1.03%		
7	101	102	"	"	0.76	0.07			
D0728	102	103	"	"	0.80	0.06			

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. P 625/4

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 0713	0.15	0.04	BH 1591	0.09	<0.01	BH 1592	0.11		BH 1593	0.089	
D 0723	0.15	0.03	BH 1594	0.09	<0.01	BH 1595	0.15		BH 1596	0.15	
D 0726	0.94	0.08	BH 1597	0.84	0.01	BH 1598	1.00		BH 1599	0.97	

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. NoBH 625/4

- 0 - 21.28 LOWER VOLCANICS
- Typical biotite rich brown/purple lower volcanics with well developed white feldspar laths present throughout. As is normal pyrite is common on the joints and there are chlorite filled gashes present in the core.
- 21.28 - 22.83 PYROXENE GARNET SKARN
- A fine pyroxene garnet skarn with moderate scheelite present throughout. Not ore grade over this thickness.
- 22.83 - 46.91 MARBLE
- A dark grey recrystallized marble often showing bedding but also very disturbed in other areas. This is typical 'B' lens marble.
- | | | | | |
|------------|-------|---------------|-----|--------|
| Bedding at | 23.5m | approximately | 54° | L.C.A. |
| | 26.5m | " | 53° | " |
| | 32.5m | " | 55° | " |
| | 37.0m | " | 55° | " |
| | 41.5m | " | 57° | " |
| | 45.0m | " | 55° | L.C.A. |
- 46.91 - 47.56 PYROXENE HORNFELS
- A very fine grained light green pyroxene hornfels. A very fine grained pyroxene calcite hornfels with no garnet or mineralization present in it.
- 47.56 - 51.87 BANDED BIOTITE PYROXENE HORNFELS
- This dominantly a brown/purple biotite hornfels with minor narrow pyroxene rich bands in it. Some of these bands show some signs of disturbance. Bedding at 50.5m approximately 62° L.C.A.
- 51.87 - 73.86 PODDED BIOTITE PYROXENE HORNFELS
- A fine grained unit of biotite and pyroxene hornfels disturbed and with noticeable pods of carbonate and silica rich material. The biotite and pyroxene rich units are irregular and intermixed.
- 73.86 - 77.93 PODDED PYROXENE HORNFELS
- A fine grained light grey/green pyroxene hornfels with well developed calcite pods. Some minor garnet is apparent in these pods. No mineralization is present in this unit.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 625/4

77.93 - 84.33

GARNET SKARN

A dark brown coloured garnet rich skarn with minor amounts of pyroxene and calcite.

Between 80.54 and 82.0m the core is very badly leached and is very soft and broken. No scheelite is visible in this area.

84.33 - 97.76

PODDED BIOTITE PYROXENE HORNFELS

A similar unit to that above 52 - 73m but with larger and much more noticeable pods of calcite and garnet present in it. Some parts of the core are quite badly broken and fractured, probably due to the proximity of the granite.

97.76 - 102.94

GARNET SKARN

As above a brown garnet pyroxene skarn quite weathered in appearance due to the presence of the granite below.

102.94 - 110.64
E.O.H.

BOLD HEAD ADAMELLITE

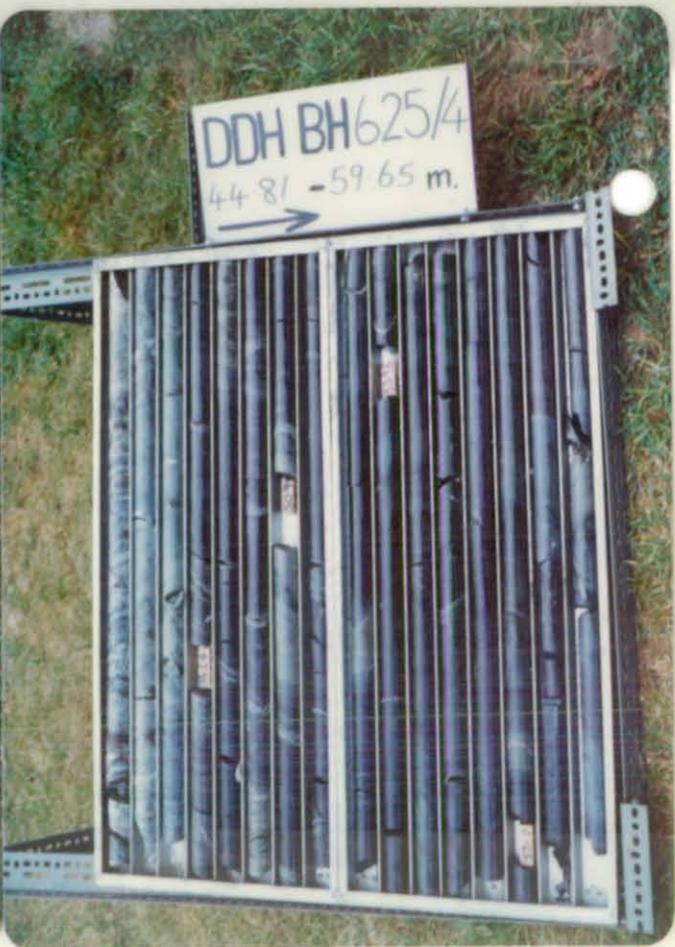
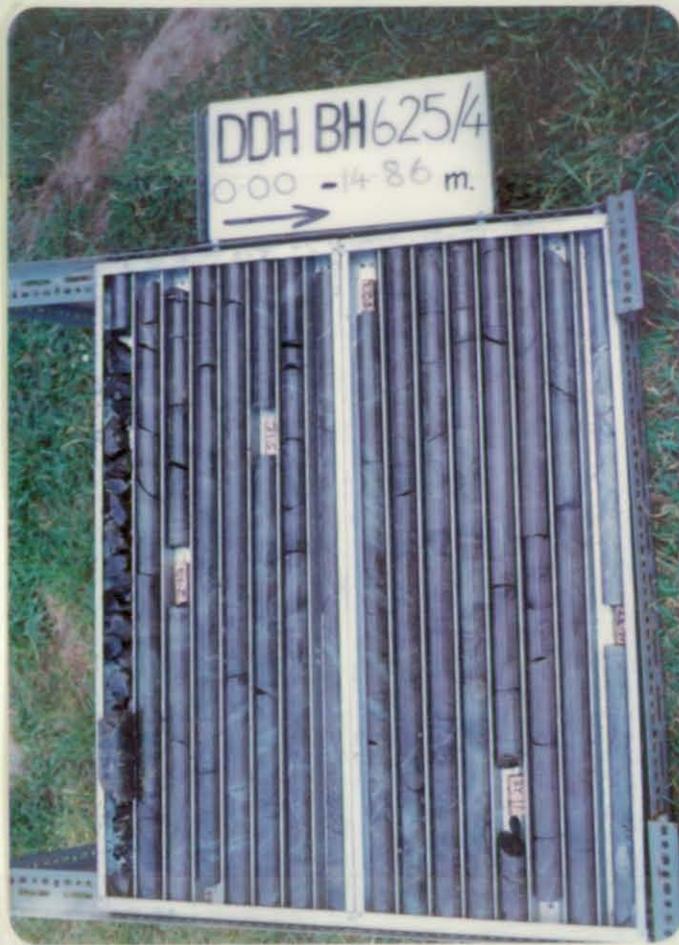
Typical feldspar quartz adamellite with quite large amounts of mafics present in it.

GEOPEKO LIMITED - KING ISLAND

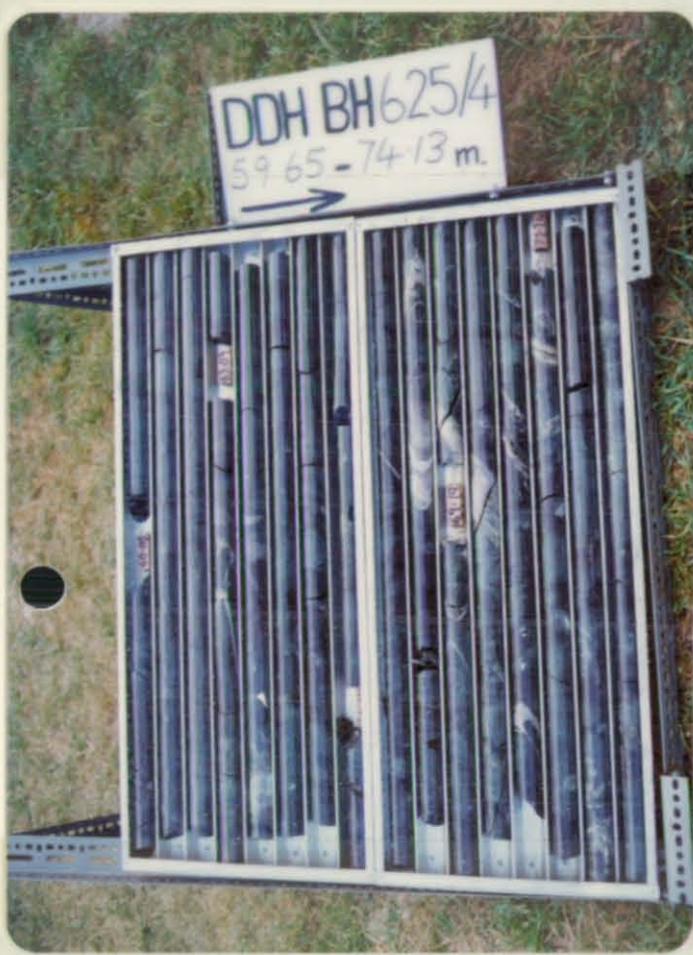
CHECK ASSAY DATA

D.D.H. 625/4

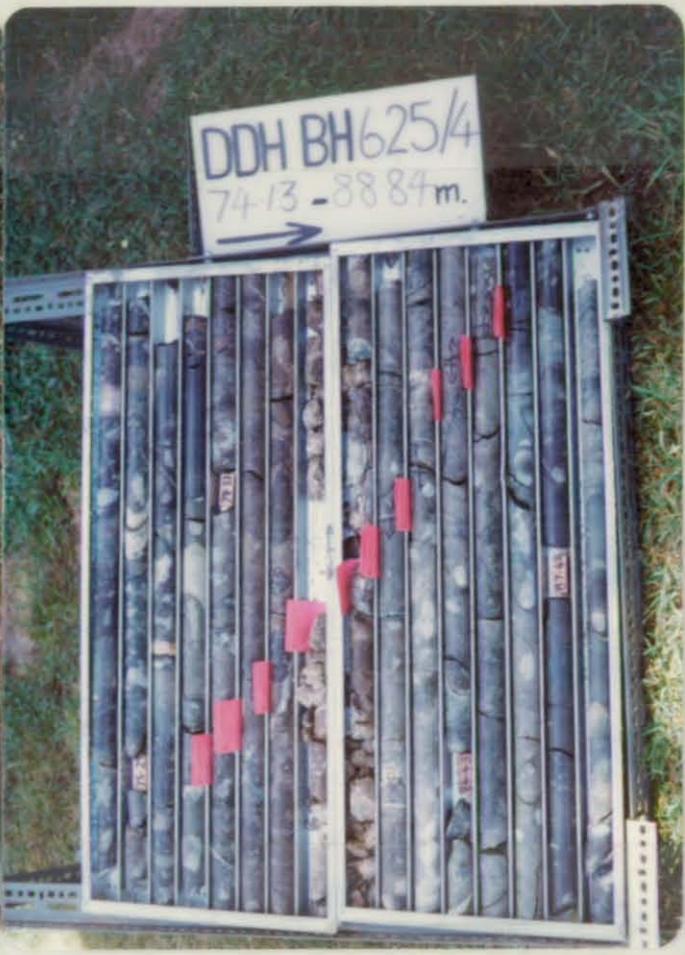
LAB. Original Sample No.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.		
	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo
D 0713	0.15	0.04	BH 1591	0.09	<0.01	BH 1592	0.11		BH 1593	0.089	
D 0723	0.15	0.03	BH 1594	0.09	<0.01	BH 1595	0.15		BH 1596	0.15	
D 0726	0.94	0.08	BH 1597	0.84	0.01	BH 1598	1.00		BH 1599	0.97	



DDH BH625/4
59.65 - 74.13 m.
→



DDH BH625/4
74.13 - 88.84 m.
→



DDH BH625/4
88.84 - 103.05 m.
→



DDH BH625/4
103.05 - 110.64 m.
→ E.O.H.-1.S.



GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 625/3

PLANNING

Proposer: S.G. Brown Depth: 150m.
Location: 10625N Cuddy in N.52.

Purpose of hole: To test 'B' lens. 'C¹' and C² lenses and 'D' lens on 10625N.

Co-ordinates: 10396 E 10622 N

Inclination: -88° Magnetic

Bearing: 270° Grid Target depth:

Target: E N

Approved by: M.C. Rogers. Date: 10/1/75

SURVEY

Survey Co-ords: E N

Survey bearing: Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 10 393.58 E 10 622.33 N

R.L. of collar: 1019.45 Inclination of hole:

Picked up by : J. Cook. Date: - 87° 55' 12" 12/2/75

SUMMARY

Logged by : S.G. Brown.

Results: 10 - 13m, 3m @ 1.16% WO₃ 0.08% Mo.
78 - 89m, 11m @ 1.27% WO₃ 0.09% Mo.
110 - 127m, 17m @ 1.19% WO₃ 0.12% Mo

DRILLING

Driller/Contractor: A?D?D.

Date commenced: 9/2/75 Date terminated: 12/2/75

Casing: Size :	NX		
Depth :	1.52		
Core: Size :	NQ	BQ	
Depth :	0.50	142.65	

Wedge Runoff:

Wedge placed: NIL

Depth:

Proposed by :

Approved by:

Reason:

Extension: NIL

Reason for termination: Hole passed through Final depth: 142.65m.

Condition of hole on completion: mine series rocks and into granite.

Casing : 1.52m NX remains.

Cemented : No

Bore hole survey: Surveyed to 140.21m.

Water: Normal water return throughout.

Comments on drilling conditions:

GEOPEKO LIMITED - BOLD HEAD MINE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. NO. BH 625/3

Survey method : Multishot camera

Final depth : 142.65m

Casing depth : 1.52m.

Depth surveyed to : 140.21m

Date surveyed : 12/2/75

Surveyed by : V.J. Powell.

Checked by : G.L. Buckland.

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	W
15.24	312°	284°	2°	-88°	15.23	0.03	0.49
30.48	313°	285°	2°07'	-87°53'	30.46	0.17	1.06
45.72	310°30'	282°30'	2°	-88°	45.68	0.27	1.57
60.96	293°30'	265°30'	2°37'	-87°23°	60.91	0.28	2.16
76.20	290°30'	262°30'	3°22'	-86°38'	76.13	0.21	2.99
91.44	300°15'	272°15'	3°37'	-86°23'	91.34	0.18	3.89
106.68	308°	280°	4°	-86°	106.54	0.27	4.89
121.92	303°	275°	3°45'	-86°15'	121.75	0.39	5.96
140.21	298°30'	270°30'	3°45'	-86°15'	140.00	0.43	7.14

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO: BH 625/3

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 12.36	lower volcanics/ gh	5		minor sulphides (pyrite, chalcopyrite). pyrrhotite). carbonate.		97	94	Excellent core quality major fractures occur at: 5.49, 6.24, 9.43.
12.36 - 36.70	ch	4		carbon- ate.	14m:73° 16m:66° 18m:68°	100	90	Excellent quality core.
36.70 - 63.81	bph/ podded pbch	6		carbonate @ 57.50		98	87	broken core: 47.93 - 48.16. Core is brecciated, weakly leached and carbonate recemented at 45.62. 63.50 - 63.75: Core is fract- ured, carbonate & chlorite filled. Major fracture @ 51.75, quartz filled.

FURTHER DATA & REMARKS (Compression Tests)

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core } > 10 \text{ cms}}{\text{length recovered}}$ %
drilled
- Core size. 0 - 0.50 NQ
 0.50 - 142.65m.

GEOPEKO LIMITED - KING ISLAND

SUMMARY. STRUCTURAL DATA

D.D.H. NO.

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
63.81 - 75.92	podded pgh/ph	7		good chlorite: 69.15 - 70.70, 72.07, 72 - 45, 73.00 - 74.18.		100	82	Fault zone: 65.52 - 66.45. (broken leached core).
75.92 - 76.19	Fault zone.	+20		carbon- ate, clino- humite, quartz.		100	0	Core is badly brec- ciated, weakly leached & carbonate cemented.
76.19 - 89.86	gh	4		minor carbonate @ 89.50, otherwise 'fresh'.		100	97	Excellent quality core.
89.86 - 110.00	bph/ banded ch/ banded bh	7		clino- humite & carb- onate @ 91.75. carbon- ate: 96.60 - 97.90 chlorite: 106.17	98.5m: 73°	99	77	104.0 - 104.15: core is riddled with carbonate veinlets, is brecciated. Fault?

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. BH 625/3

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
110.00 - 137.35	banded bch/ impure gh/ banded bpch/ banded bpcgh.	5		chlorite @ 110.05	112.5m: 37° 115.3m: 46° 118.2m: 38° 120.0m: 55° 123.7m: 32°	99	89	bad ground: 130.75 - 131.28. At 124.75 occurs a 2m wide carbon- ate filled fracture.
137.35 - 142.65	Granite.	4				97	84	
L.O.H.								

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.44	2.44	2.27	93
5.49	3.05	2.99	98
8.53	3.04	2.99	98
11.58	3.05	3.00	98
14.63	3.05	3.05	100
17.68	3.05	3.00	98
20.73	3.05	3.03	99
23.77	3.04	3.03	100
26.82	3.05	3.05	100
29.87	3.05	3.03	99
32.92	3.05	3.07	101
35.97	3.05	2.03	99
39.01	3.04	3.04	100
42.06	3.05	2.92	96
45.11	3.05	3.03	99
48.16	3.05	3.05	100
51.21	3.05	3.06	100
54.25	3.04	2.97	98
57.30	3.05	3.03	99
60.35	3.05	2.86	94
63.40	3.05	3.05	100
66.45	3.05	3.02	99
69.49	3.04	3.05	100
72.54	3.05	3.07	101
75.59	3.05	3.13	103
78.64	3.05	3.01	99
81.69	3.05	3.02	99
84.73	3.04	2.96	97
87.78	3.05	3.02	99
90.83	3.05	3.04	106
93.88	3.05	3.05	100
96.93	3.05	3.05	100
99.97	3.04	3.00	99
103.02	3.05	3.09	101
106.07	3.05	2.92	96
109.12	3.05	3.00	98
112.17	3.05	3.04	100
115.21	3.04	3.03	100
118.26	3.05	3.03	99

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 121.31	3.05	3.00	98
124.36	3.05	3.02	99
127.41	3.05	3.00	98
130.45	3.04	2.98	98
133.50	3.05	3.04	100
136.55	3.05	2.98	98
139.60	3.05	3.03	99
142.65	3.05	2.92	96
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 625/3

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D0651	9	10	1.0	1.0	0.01	0.01			
2	10	11	"	"	0.47	0.04			10 - 13, 13m @ 1.16% WO ₃ 0.08% Mo ₃
3	11	12	"	"	1.07	0.07			
D0654	12	13	"	"	1.96	0.13			
D0655	63	64	"	"	0.01	0.01			
6	64	65	"	"	0.30	0.01			
7	65	66	"	"	0.11	0.02			
8	66	67	"	"	0.01	0.01			
9	67	68	"	"	0.06	0.02			
D0660	68	69	"	"	0.04	0.02			
D0661	74	75	"	"	0.38	0.03			
2	75	76	"	"	0.01	0.01			
3	76	77	"	"	0.11	0.02			
4	77	78	"	"	0.22	0.01			
5	78	79	"	"	2.86	0.14			78 - 89m, 11m @ 1.27% WO ₃ 0.09% Mo ₃
6	79	80	"	"	2.34	0.13			
7	80	81	"	"	1.73	0.12			
8	81	82	"	"	0.95	0.08			
9	82	83	"	"	0.86	0.08			
D0670	83	84	"	"	1.02	0.09			
1	84	85	"	"	0.92	0.08			
2	85	86	"	"	0.65	0.07			
3	86	87	"	"	1.19	0.08			
4	87	88	"	"	0.69	0.09			
5	88	89	"	"	0.71	0.05			
6	89	90	"	"	0.01	0.01			
D0677	90	91	"	"	0.11	0.03			
D0678	107	108	"	"	0.05	0.03			
9	108	109	"	"	0.25	0.05			
80	109	110	"	"	0.04	0.03			110 - 127m, 17m @ 1.19% WO ₃ 0.12% MO ₃
1	110	111	"	"	0.46	0.07			
2	111	112	"	"	1.22	0.10			
3	112	113	"	"	0.25	0.11			
4	113	114	"	"	0.60	0.16			
5	114	115	"	"	0.86	0.09			
6	115	116	"	"	0.72	0.21			
7	116	117	"	"	0.98	0.18			

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 625/3

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D0688	117	118	1.0	1.0	0.36	0.05			
9	118	119	"	"	0.75	0.07			
90	119	120	"	"	1.10	0.10			
1	120	121	"	"	3.60	0.35			
2	121	122	"	"	1.72	0.10			
3	122	123	"	"	0.64	0.06			
4	123	124	"	"	0.96	0.08			
5	124	125	"	"	1.84	0.09			
6	125	126	"	"	2.10	0.12			
7	126	127	"	"	2.00	0.10			
D0698	127	128	"	"	0.20	0.04			
D0699	133	134	"	"	0.28	0.01			
700	134	135	"	"	0.10	0.03			
2	135	136	"	"	0.10	0.03			
D0703	136	137	"	"	0.10	0.03			

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. p 625/3

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 0653	1.07	0.07	BH 1573	1.01	0.01	BH 1574	1.15		BH 1575	1.16	
D 0663	0.11	0.02	BH 1576	0.10	<0.01	BH 1577	0.33		BH 1578	0.14	
D 0673	1.19	0.08	BH 1579	1.22	0.07	BH 1580	1.40		BH 1581	1.31	
D 0683	0.25	0.11	BH 1582	0.27	<0.01	BH 1583	0.38		BH 1584	0.36	
D 0693	0.64	0.06	BH 1585	0.52	<0.01	BH 1586	0.79		BH 1587	0.77	
D 0703	0.10	0.03	BH 1588	0.06	<0.01	BH 1589	0.15		BH 1590	0.11	

GEOPEKO LIMITED - BOLD HEAD MINE

GEOLOGICAL LOG

D.D.H. No. BH 625/3

0.0 - 9.85m.

LOWER VOLCANICS

Typical brown purple biotite rich lower volcanics with well developed feldspar laths apparent throughout.

Quite large amounts of pyrite are present throughout especially on the joints and fault planes.

Minor faults are apparent throughout as follows:- 5.49m, 6.24m, and 9.43m. These are filled with calcite.

9.85 - 12.86

GARNET SKARN (B LENS)

This skarn is initially pyroxene rich over the first 60cm or so before becoming a normal garnet skarn containing quite noticeable amounts of pyroxene and calcite. The scheelite content increases with the garnet content.

Remnant bedding is apparent at about 66° L.C.A.

12.86 - 36.70

MARBLE

A white-grey marble with fine dark grey banding present throughout most of it. This banding shows minor disturbance throughout.

Some very minor scheelite is apparent in a few areas while some pyroxene or garnet is present but this is only trace amounts, the largest being at about 25m.

Bedding at 14m approximately 73° L.C.A.

16m " 66° "

18m " 68° "

between 18m and 27m the bedding is disturbed.

30m @ 57° L.C.A.

32.5m @ 61° "

34.5m @ 66° "

36.70 - 59.45

BIOTITE PYROXENE HORNFELS

This unit is dominantly a biotite hornfels purple brown in colour with minor amounts of light grey green pyroxene present in it.

From 36.70 - 51.00m this unit is quite visibly banded although the banding becomes less distinct to 51m.

Bedding angle is about 82° L.C.A.

From 51.00 - 59.45m the core is initially 'spotty' in appearance becoming podded towards 59m, small amounts of calcite and garnet become apparent in these pods and the unit merges to that below.

GEOPEKO LIMITED - BOLD HEAD MINE

GEOLOGICAL LOG

D.D.H. No. 625/3 BH

36.70 - 59.45
cont.

At 51.79m there is a small band of quartz filled with chalcopyrite, approximately 25° L.C.A.

59.45 - 63.81

PODDED PYROXENE BIOTITE CALCITE HORNFELS

The groundmass of this unit is a mixture of pyroxene and biotite hornfels in which occur angular fragments of calcite of various sizes. Where these fragments are surrounded by pyroxene hornfels garnet rims occur but not in the biotite rich areas.

The last 30cm of core are badly shattered and faulted with calcite infilling present in this zone.

63.81 - 71.52

PODDED PYROXENE GARNET HORNFELS

A disturbed unit with large pods of recrystallized marble set in a matrix of pyroxene and garnet. The garnet being dominant round the calcite pods. This unit is mineralized up to about 68.7m, the scheelite occurring in the garnet rich areas.

Below 68.7m pyroxene becomes more common and the unit grades to the ore below.

From 65.55 - 66.45m the core is extremely broken and leached and large amounts of remobilized calcite is present indicating a fault zone.

71.52 - 75.92

PYROXENE HORNFELS

Initially a podded unit with large white blocks of calcite set in a bright green pyroxene matrix. From 72.5m the unit is mainly pyroxene hornfels with minor amounts of garnet present in it, a larger band occurring between 74.28 - 74.50.

Below 74.5m the unit tends to become more of a disturbed and blotchy biotite pyroxene hornfels.

75.92 - 76.19

FAULT ZONE

This zone is broken pyroxene and garnet hornfels with large amounts of calcite infilling. dips at approximately 15° L.C.A.

76.19 - 89.86

GARNET SKARN (C LENS)

This is a dark brown andradite calcite skarn rich in scheelite. The first 2m contain some pyroxene and less scheelite.

GEOPEKO LIMITED - BOLD HEAD MINE

GEOLOGICAL LOG

D.D.H. No. BH 625/3

76.19 - 89.86
cont.

The last 14m is a banded skarn unit with barren pyroxene bands present in it.

89.86 - 96.69

BIOTITE PYROXENE HORNFELS

This unit consists of broad zones of biotite and pyroxene rich hornfels which merge one to another.

The last 20cm contains quite high garnet.

Between 93.88m and 95.13m there is a very biotite rich aplite dyke which in some areas appears almost granitic.

96.69 - 98.94

BANDED IMPURE MARBLE

The banding is due to the relative amounts of impurities, mainly pyroxene that is present in the marble.

Some bands are very white almost pure recrystallized limestone.

Bedding at 98.5m approximately 73° L.C.A.

98.94 - 100.99

BANDED BIOTITE HORNFELS

A fine grained black biotite hornfels with minor banding throughout. An aplite dyke is apparent between 99.59 and 99.94m.

At 100m banding is approximately 72° L.C.A.

100.99 - 110.00m

BANDED BIOTITE CALCITE HORNFELS

This unit is dominantly alternating horizons of biotite hornfels and marble with lesser amounts of garnet and pyroxene and with trace scheelite apparent in the garnet areas.

Banding at 106m approximately 61° L.C.A.
109m " 58° "

110.0 - 127.21m

IMPURE BANDED SKARN

This is a disturbed banded unit consisting mainly of garnet skarn horizons containing good scheelite mineralization separated by bands of biotite and pyroxene hornfels. Some disturbance is apparent in the biotite and pyroxene areas but insufficient to give the podded effect seen elsewhere.

GEOPEKO LIMITED - BOLD HEAD MINE

GEOLOGICAL LOG

D.D.H. No. BH 625/3

110.0 - 127.21m
cont.

Bedding at 112.5m approximately 37° L.C.A.
115.3 " 46° "
118.2 " 38° "

Although only minor amounts of molybdenite are present quite large patches of chalcopyrite and pyrite are seen in the garnet calcite skarn.

127.21 - 133.73

BANDED BIOTITE PYROXENE CALCITE HORNFELS

Similar to the above unit except that there is only a few minor garnet rich bands in this area and a large number of barren marble horizons.

Bedding at 128.5m approximately 42° L.C.A.
130.5m " 47° "
132.5m " 44° "

133.73 - 137.35m

BANDED BIOTITE, PYROXENE CALCITE GARNET HORNFELS

Similar to the impure skarn unit above but with quite large numbers of bands of pure marble present in it. Good scheelite is present in the skarn horizons. Bedding approximately 51° L.C.A.

137.35 - 142.65

GRANITE

Typical Bold Head Adamellite with minor quartz rich area present near the contact.

E.O.H.

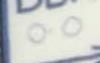
GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

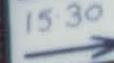
D.D.H. 625/3

LAB. Original Sample No.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.		
	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo
D 0653	1.07	0.07	BH 1573	1.01	0.01	BH 1574	1.15		BH 1575	1.16	
D 0663	0.11	0.02	BH 1576	0.10	<0.01	BH 1577	0.33		BH 1578	0.14	
D 0673	1.19	0.08	BH 1579	1.22	0.07	BH 1580	1.40		BH 1581	1.31	
D 0683	0.25	0.11	BH 1582	0.27	<0.01	BH 1583	0.38		BH 1584	0.36	
D 0693	0.64	0.06	BH 1585	0.52	<0.01	BH 1586	0.79		BH 1587	0.77	
D 0703	0.10	0.03	BH 1588	0.06	<0.01	BH 1589	0.15		BH 1590	0.11	

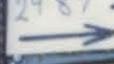
DDH BH625/3
00 - 15.03 m.



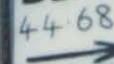
DDH BH625/3
15.30 - 29.87 m.

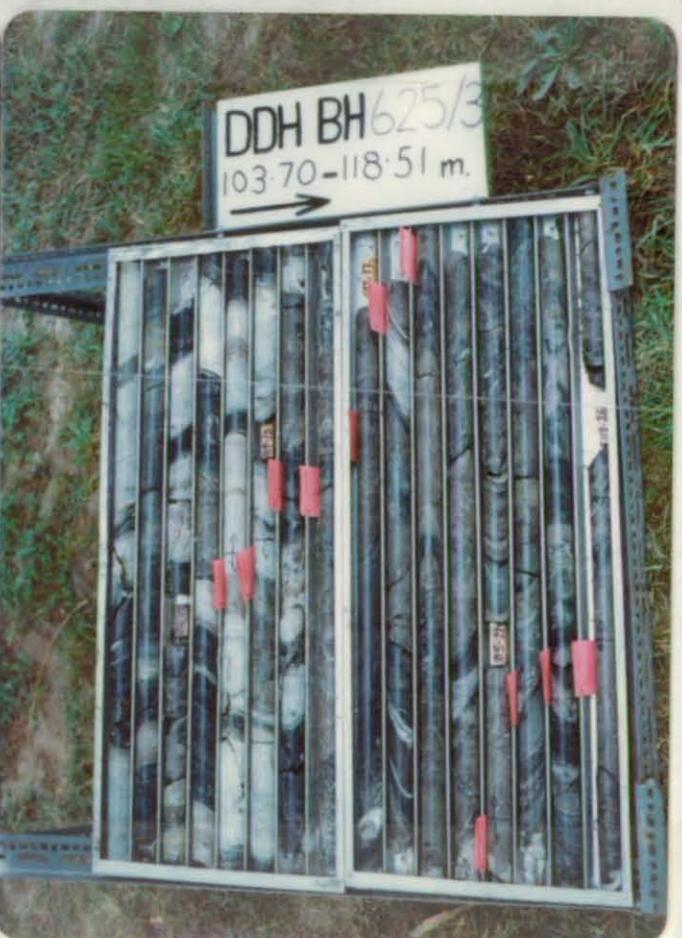
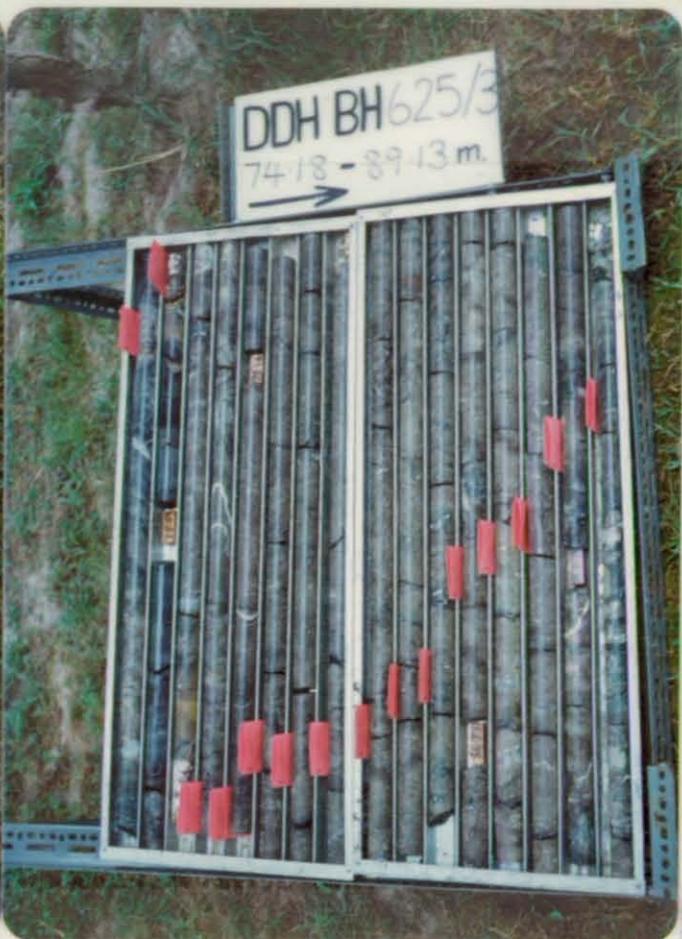


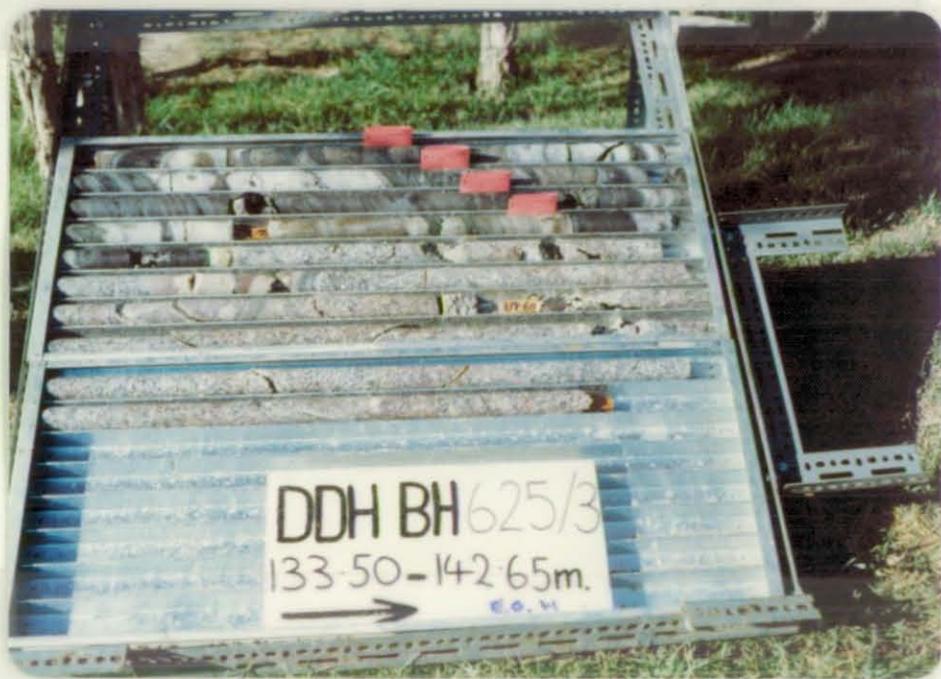
DDH BH625/3
29.87 - 44.68 m.



DDH BH625/3
44.68 - 59.45 m.







GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No.BH 625/2

PLANNING

Proposer: S. G. Brown.

Depth: 96m.

Location: 10625N cuddy on N.52. drive.

Purpose of hole: To define fault block ore bodies and C¹ C² lenses.

Co-ordinates: 10 385 E 10620 N

Inclination: -72° Magnetic

Bearing: 090° Grid Target depth:

Target: E N

Approved by: M.C. Rogers. Date: 21/1/75

SURVEY

Survey Co-ords: E N

Survey bearing: Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 10 395.82 E 10 622.06 N

R.L. of collar: 1019.611 Inclination of hole:

Picked up by : J. Cook. -72° 35' 02"

Date: 31/1/75.

SUMMARY

Logged by : S.G. Brown.

Results: 7 - 21m 14m @ 1.41% WO₃ (NB podded unit includes 2m ch)

0.18% Mo

29 - 31m 2m @ 1.20% WO₃ 0.09% Mo.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 18/1/75

Date terminated: 21/1/75

Casing: Size :	NX		
Depth :	1.52		
Core: Size :	NQ	BQ	
Depth :	0.30	56.08	

Wedge Runoff:

Wedge placed: NIL

Depth:

Proposed by :

Approved by:

Reason:

Extension: NIL.

Reason for termination: Entered Quartzites Final depth: 56.08m

Condition of hole on completion: east of Boundary Fault.

Casing : 1.52m NX remains.

Cemented NO.

Bore hole survey: Yes - surveyed to 54.86m.

Water: NO.

Comments on drilling conditions: Excellent.

GEOPEKO LIMITED - BOLD HEAD MINESUMMARY BORE HOLE SURVEY DATAD.D.H. NO. BH 625/2

Survey method : Multishot camera.

Final depth : 56.08m

Casing depth : 1.52m.

Depth surveyed to : 54.86m.

Date surveyed : 31/1/75

Surveyed by : V. Powell.

Checked by : G. Buckland.

DEPTH	Bearing		Inclination		True Vertical depth	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
15.24	088°30'	060°30'	18°22'	-71°38'	14.47	2.41	4.12
30.48	086°45'	058°45'	18°37'	-71°23'	28.92	4.93	8.26
45.72	087°30'	059°30'	18°52'	-71°08'	43.33	7.42	12.50
54.86	087°30'	059°30'	19°	-71°	51.98	8.93	15.07

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. BH 625/2

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
0 - 19.68	lower volcanics/ pg skarn/ marble/ pgc skarn.	2		minor pyrite and carbonate.		99	97	Excellent quality core.
19.68 - 35.93	marble/ pg skarn/ disturbed bph.	5		carbonate @ 26.36. minor pyrite @ 30.90	35m:0° 35.2m: 21°	100	88	At 20.52 a 5cm interval of core is badly broken and chlorite filled. Core is brecciated @ 32.43. Chlorite on the joint surface appears slickensided.
35.93 - 45.71	ph/ disturbed bph	11		carbonate @ 34.76 38.61, chlorite elsewhere.		94	59	40.95 - 42.25 & 43.28 - 43.82: core is highly fractured & riddled with chlorite filling. Has little structural strength.

FURTHER DATA & REMARKS (Compression Tests)

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). = $\frac{\text{length core } > 10\text{cms}}{\text{length recovered drilled}} \%$
- Core size. 0 - 0.30 NQ
0.30 - 56.08 BQ

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. NO. BH 625/2

Depth Interval (metres)	Rock Type	Fractures / Metre	Joint Angle	Joint Filling	Bedding Angle	% Core Recovery	Broken Core % >10cms (R.Q.D.)	Remarks (weathering)
45.71 - 46.33	Boundary fault.	+20		some chlorite minor carbonate @ 45.75		145	11	bad ground - essentially rubble. (difficult to accurately measure length of core recovered) Brecciated core @ 45.71, is carbonate recemented.
46.33 - 56.08	q	8		pyrite. minor carbonate @ 53.14, 53.30, 54.80.		103	73	<u>Rubble:</u> 50.80 - 50.90 51.13 - 51.34. 53.34 - 53.46

FURTHER DATA & REMARKS (Compression Tests)

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.13	2.13	1.92	90
5.18	3.05	3.15	103
8.23	3.05	3.04	100
11.28	3.05	3.04	100
14.33	3.05	3.06	100
17.37	3.05	3.04	100
20.42	3.05	3.02	99
23.47	3.05	3.12	102
26.52	3.05	3.00	98
29.57	3.05	3.05	100
32.61	3.04	3.06	101
35.66	3.05	3.02	99
38.71	3.05	3.04	100
41.76	3.05	3.04	100
44.81	3.05	3.07	101
46.33	1.52	1.92	126
47.85	1.52	1.11	73
50.90	3.05	3.03	99
53.34	2.44	2.62	107
53.95	0.61	0.53	87
56.08	2.13	2.16	101

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 625/2

SAMPLE No.	DEPTH (METRES)				ELEMENTS				COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo			
D0526	7	8	1.0	1.0	0.43	0.03			7 - 21m, 14m @ 1.41% WO ₃ 0.18% Mo
7	8	9	"	"	1.73	0.10			
8	9	10	"	"	6.30	0.39			
9	10	11	"	"	0.78	0.06			
30	11	12	"	"	0.14	0.02			
1	12	13	"	"	0.23	0.03			
2	13	14	"	"	0.98	0.09			
3	14	15	"	"	1.67	0.20			
4	15	16	"	"	1.93	0.50			
5	16	17	"	"	1.91	0.71			
6	17	18	"	"	0.96	0.10			
7	18	19	"	"	0.97	0.08			
8	19	20	"	"	0.99	0.09			
9	20	21	"	"	0.74	0.07			
40	21	22	"	"	0.05	0.01			
1	22	23	"	"	0.03	0.01			
D0542	23	24	"	"	0.01	0.01			
D0543	28	29	"	"	0.20	0.03			29 - 31m, 2m @ 1.20% WO ₃ 0.09% Mo
4	29	30	"	"	1.04	0.09			
5	30	31	"	"	1.35	0.10			
D0546	31	32	"	"	0.25	0.41			

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

P.D.H. p 625/2

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 0527	1.73	0.10	BH 1561	1.70	0.04	BH 1562	1.75		BH 1563	1.83	1.85	
D 0537	0.97	0.08	BH 1564	0.82	0.02	BH 1565	1.00		BH 1566	1.05		
D 0543	0.20	0.03	BH 1567	0.15	<0.01	BH 1568	0.33		BH 1569	0.25		

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. 625/2

0 - 7.51m.

LOWER VOLCANICS

Typical brown purple lower volcanics with large white feldspar laths and a high content of pyrite.

7.51 - 10.94

PYROXENE GARNET SKARN

A very disturbed garnet rich unit with minor pyroxene except between 9.5 and 10m where the unit is extremely pyroxene rich. Scheelite is present throughout the whole unit but molybdenite rosettes are only visible in the pyroxene rich area.

10.94 - 12.72

MARBLE

A very pure white recrystallized marble with minor irregular patches of scheelite rich pyroxene hornfels present in it, minor fine garnet is also present.

12.72 - 19.68

PYROXENE GARNET CALCITE SKARN

This is a distinctly spotted rock in appearance especially to 17m in which the area is dominantly pyroxene and calcite with only minor amounts of garnet present in it. The scheelite grade is very high as is the molybdenite content. The scheelite occurs as extremely fine specks while the molybdenite is present as quite noticeable rosettes. From 17m - 19.68m the garnet becomes dominant and the Mo content drops off.

19.68 - 28.75

MARBLE

A fine grained grey slightly banded marble with very occasional pyroxene rich areas at both ends of the unit. Apart from the pyroxene bands no scheelite is present in this unit.

28.75 - 31.83

PYROXENE GARNET SKARN

A normal fine grained green-red brown pyroxene garnet skarn rich in scheelite, except for the last 40cm which is extremely pyroxene rich and contains a large number of molybdenite flakes.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. 625/2

31.83 - 35.93

DISTURBED BIOTITE PYROXENE HORNFELS

Extremely disturbed biotite pyroxene hornfels with remnant disturbed bedding visible in some areas among the intermixed patches of biotite and pyroxene hornfels.

Bedding at 35m sub parallel L.C.A.
35.2m 21° L.C.A.

Some areas appear to have shown brittle fractures while others appear to have flowed together.

35.93 - 42.42

PYROXENE HORNFELS

A fine light grey green pyroxene rich rock unit with minor garnet rich areas containing trace scheelite.

The pyroxene hornfels is very disturbed and broken and is quite soft especially over the last 3 metres.

Minor molybdenite is visible in some areas.

42.42 - 45.71

DISTURBED BIOTITE PYROXENE HORNFELS

This unit is similar to that between 31.83 and 35.95m but shows little of the sharp 'brittle' fracture appearance and more of the soft disturbed look.

45.71 - 46.33

BOUNDARY FAULT

A well broken zone of biotite hornfels with minor calcite content.

46.33 - 56.08

EOH

QUARTZITES

An irregular sequence of light grey fine to medium grained quartzites and dark grey very fine grained siltstones.

Minor aplite dykes are apparent in this unit and pyrite is visible throughout especially in the fractures.

GEOPEKO LIMITED - KING ISLAND

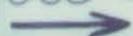
CHECK ASSAY DATA

D.D.H. 625/2

LAB. Original Sample No.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			Repeat and check analysis
	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo	Check Sample No.	WO ₃	Mo WO ₃	
D 0527	1.73	0.10	BH 1561	1.70	0.04	BH 1562	1.75		BH 1563	1.83	1.85	
D 0537	0.97	0.08	BH 1564	0.82	0.02	BH 1565	1.00		BH 1566	1.05		
D 0543	0.20	0.03	BH 1567	0.15	0.01	BH 1568	0.33		BH 1569	0.25		

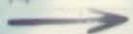
DDH BH 625/2

0.00 - 14.79 m.



DDH BH 625/2

14.79 - 29.57 m.



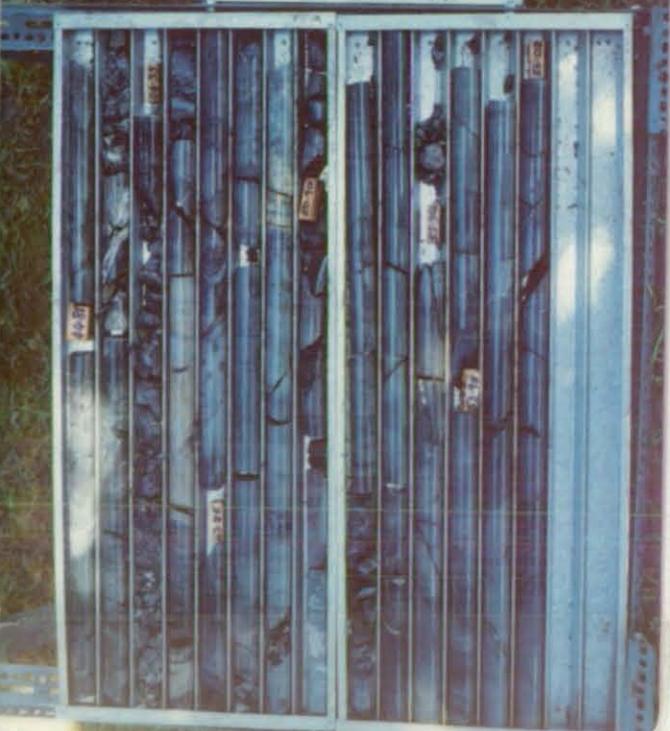
DDH BH 625/2

29.57 - 44.31 m.



DDH BH 625/2

44.31 - 56.08 m.



GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 625/1

PLANNING

Proposer: S.G. Brown Depth: 20m
Location: 10625N cuddy on N.52 drive 1025 R.L. approx.

Purpose of hole: To define Boundary fault, and fault ore body.

Co-ordinates: 10385 E 10620 N
Inclination: Horizontal. Magnetic
Bearing: 090 Grid Target depth:
Target: E N
Approved by: M.C. Rogers. Date: 10/1/75

SURVEY

Survey Co-ords: E N
Survey bearing: Grid Magnetic
Surveyed in by: Date:
Actual Co-ords: 10 397.22 E 10 622.08 N
R.L. of collar: 1020.780 Inclination of hole:
Picked up by : J. Cook Date: +0° 54' 21"
31/1/75

SUMMARY

Logged by : S.G. Brown:
Results: 7 - 9m 2m @ 5.03% WO₃

DRILLING

Driller/Contractor: A.D.D.
Date commenced: 28/1/75 Date terminated: 30/1/75

Casing: Size :	NIL		
Depth :			
Core: Size :	BQ		
Depth :	18.24		

Wedge Runoff:

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

Extension:

Reason for termination: hole located the Final depth: 18.29m
Condition of hole on completion: Boundary Fault.
Casing : NIL
Cemented : No.

Bore hole survey: Hole unsurveyed.

Water:

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 625/1

Depth Interval (metres)	Rock Type	Fractures/m.	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery.	R.Q.D.	Remarks (weathering)
0 - 9.53	Lower volcanics/ fault zone bh/pg/skarn/ Boundary fault.	5	carbonate @ 0.42 chlorite & pyrite: 5.48 - 8.52.		98	96	Core is brecciated and carbonate recemented @ 6.56
9.53 - 18.29	q	7	clinohumite, pyrite, chlorite in fault zone. Good pyrite in q. zone.		101	77	Fault: 8.65 - 8.90. At 11.57, a 3cm wide zone of clinohumite/ chlorite & carbonate dipping @ 60° to L.A.O.C. Fault?

FURTHER DATA & REMARKS

- Detailed % core recoveries within each depth interval is shown in the core recovery tabulation.
- R.Q.D. (rock quality designator). $= \frac{\text{length core } \geq 10 \text{ cms}}{\text{Length recovered-drilled.}}$ %
- Core size. 0 - 18.29 BQ

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 625/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.82	1.83	1.77	97
4.88	3.05	2.94	96
7.93	3.05	3.10	102
10.97	3.04	3.05	100
14.02	3.05	3.04	100
16.76	2.74	2.82	103
18.29	1.53	1.52	99

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 625/1

SAMPLE No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO ₃	Mo		
D0523	7	8	1.0	1.0	2.97	0.23		7-9m, 2m @ 5.03% WO ₃ 0.35% Mo
4	8	9	1.0	1.0	7.10	0.48		
D0525	9	10	1.0	1.0	0.05	0.02		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 625/1

0 - 6.40m.

LOWER VOLCANICS

A typical fine grained groundmass purple in colour consisting of biotite and quartz. A well spotted appearance is developed due to dark biotite rich clots and light grey feldspar laths.

Pyrite is common both as a joint filling and also as fine stringers.

6.40m - 6.57m

FAULT ZONE

A small fault zone filled with clinohumite and calcite, quite large units of pyrite also being present.

6.57m - 7.06m

BIOTITE HORNFELS

A fine grained grey black coloured unit with minor bands of pyroxene rich material present in three places. Some pyrrhotite is apparent associated with the pyroxene.

7.06m - 8.52m

PYROXENE GARNET SKARN

A very thin band of extremely well mineralized pyroxene garnet skarn, large grey crystals of scheelite and flakes of molybdeum are easily visible as are lesser amounts of bismuth, chalcopryrite and pyrite.

8.52 - 8.80

BOUNDARY FAULT

A small well brecciated zone of quartzites with clinohumite infilling along the fractures.

8.80 - 18.24

QUARTZITES

A series of light grey quartzites with interbedded dark grey-black fine grained siltstones. The whole sequence is rich in pyrite.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No BH 625/1

8.80 - 18.24
cont.

There is an apparent bedding at approximately
58° L.C.A. but this is not uniform, as the bedding becomes
'tattered' in some areas.

E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. 625/1

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		
D 0523	2.97	0.23	BH 1570	7.70	0.32	BH 1571	6.40		BH 1572	6.28	6.33		
D 0524	7.10	0.48	BH 1743	2.54	0.09								
<p>Comment on KIS check assaying - Sample tags for D 0523 and D 0524 <u>could have</u> reversed after original assaying.</p>													



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 615/6

PLANNING PROPOSER: T. Potter DEPTH: 30 m
LOCATION: A Lens Outcrop
PURPOSE OF HOLE: Grade and Structure
PROPOSED CO-ORDS: 40342 E 10612 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: 40340.30 E 10611.81 N
R.L. OF COLLAR: 1116.07
INCLINATION OF HOLE: -73°
PICKED UP BY: B. Lennon DATE: 7/8/80

SUMMARY LOGGED BY:
RESULTS:

DRILLING DATE COMMENCED: 11/7/80 DATE TERMINATED: 13/7/80

DRILLER/CONTRACTOR: Geopeko - Jacro Drill

AUGER: SIZE:
DEPTH: 16.5

CORE: SIZE: AQ
DEPTH: 36.2

WEDGE PLACED: DEPTH: PROPOSER:

EXTENSION:

FINAL DEPTH: 36.2 m

REASON FOR TERMINATION: Passed through orebody

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 615/6

AUGER SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
KF 332	0	1.5	1.5		0.29			
333	1.5	3	"		0.74			
334	3	4.5	"		3.1			
335	4.5	6.0	"		1.70			
336	6	7.5	"		1.52			
337	7.5	9	"		1.69			
338	9	10.5	"		0.87			
339	10.5	12	"		0.97			
340	12	13.5	"		0.78			
341	13.5	15	"		0.93			
342	15	16.5	"		1.70			
<u>DIAMOND DRILL CORE</u>								
	16.5	36.2	m	EOH				

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 615/6

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 8486	18.2	20	1.0	1.0	0.77			
87	20	21	"	"	2.14			
88	21	22	"	"	0.77			
89	22	23	"	"	0.54			
90	23	24	"	"	0.69			
91	24	25	"	"	0.39			
92	25	26	"	"	0.53			
93	26	27	"	"	0.71			
94	27	28	"	"	0.58			
95	28	29	"	"	0.57			
96	29	30	"	"	0.59			
97	30	31	"	"	0.74			
98	31	32	"	"	0.78			
99	32	33	"	"	1.18			
500	33	34	"	"	0.78			
01	34	35	"	"	2.20			
02	35	36	"	"	0.05			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 615/6

Auger Drilling . . . 0.0 - 16.5 m
Diamond Drilling 16.5 - 36.2 m

0.0 - 1.5 m	Dark orange - brown clay
1.5 - 3.0	" " " "
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	" " " "
13.5 - 15.0	" " " "
15.0 - 16.5	" " " "
16.5 - 18.2	1.7 m drilled 0.05 m recovered Weathered garnet pyroxene hornfels
18.2 - 19.4	Showing weathered oxidised and then slightly weathered garnet pyroxene hornfels core loss is 0.52 m.
19.4 - 25.6	Solid fresh garnet pyroxene hornfels with moderate fine grained scheelite "veins" at 50° to long core axis (oxidised).
25.6 - 34.75	Garnet hornfels with minor fine grained scheelite.
24.75 - 36.2	Pyroxene hornfels with minor zones of garnet - not mineralised



DDH BH 615/6
E.O.H
165 - 36.2 M.
→

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 615/5E

PLANNING PROPOSER: Bold Head Mine DEPTH: 23m
LOCATION: N61 Decline Drill Cuddy
PURPOSE OF HOLE: Drain hole for P64.
PROPOSED CO-ORDS: 40383 E 10616 N
INCLINATION: +5
BEARING: 328° ° GRID ° MAG
TARGET: E N
DEPTH:
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: 328° 26' ° GRID ° MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40383.1 E 10616.3 N
R.L. OF COLLAR: 908.7
INCLINATION OF HOLE: +04° 54'
PICKED UP BY: M. Marchant DATE: 14/9/79

SUMMARY LOGGED BY: R. E. Sandell Davies
RESULTS: Not assayed, but 10m of mineralisation from
13.5 - 23m

DRILLING DATE COMMENCED: 10/9/79. DATE TERMINATED: 18/9/79
DRILLER/CONTRACTOR: K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE:
DEPTH:
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 23.3m
REASON FOR TERMINATION: Hit P64
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY: *Not surveyed*
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 615/1E

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.0	2.6	2.6	100
2.6 - 5.6	3.0	3.0	100
5.6 - 8.6	3.0	3.0	100
8.6 - 11.6	3.0	3.0	100
11.6 - 14.5	2.9	2.9	100
14.5 - 16.7	2.2	2.2	100
16.7 - 17.1	0.4	0.4	100
17.1 - 17.7	0.6	0.6	100
17.7 - 20.2	2.5	2.4	96
20.2 - 23.2	3.1	3.1	100
EOH 23.3m			

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 615/1E

0.0 - 13.5m. BANDED FOOTWALL BEDS

This unit is essentially unmineralised apart from 3.0 - 3.4m and 6.5 - 6.8m where good grade (0.6%) garnet skarn is present.

Most of the unit up to 7.1m is marble with small pods and lenses of pyroxene hornfels and pyroxene hornfles.

The remainder is virtually all interbedded pyroxene hornfels with massive biotite hornfels apart from marble bands containing grossular at 8.2 - 9.2m and 12.0 - 12.9m.

Bedding	11°	to LCA @	1.6m
	18°		4.5m
sub	11°		5.6m
	8°		7.4m
	13°		8.4m
	10°		10
	6°		12
	43°		13

13.5 - 23.0 GARNET SKARN

Massive andradite garnet skarn, no bedding or other textures present. Uniform high grade probably about 1% WO_3 .

20cm of biotite hornfels present at the start of the unit.

23.0 - 23.3 BIOTITE HORNFELS

Fine grained, dark grey biotite hornfels, unmineralised.

EOH 23.3m

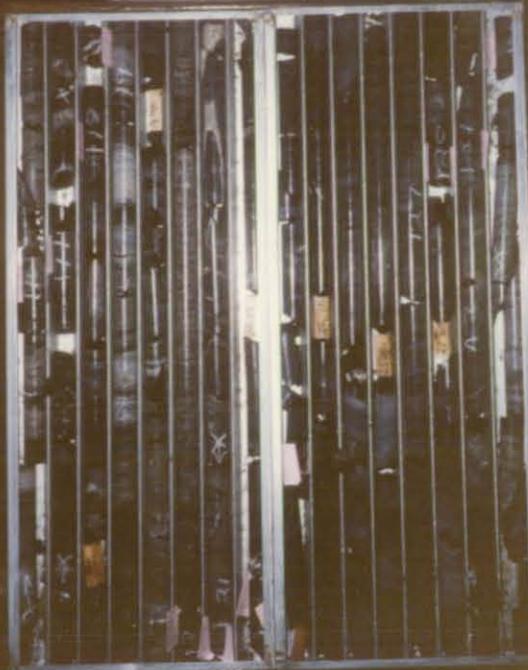
DDH BH 615/4

0.00 — 15.50 m.



DDH BH 615/4

15.50 — 30.05 m.



DDH BH 615/4

30.05 — 37.50 m.

F.O.H.



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 615/4

PLANNING PROPOSER: R. E. Sandell Davies DEPTH: 40
LOCATION: N61 Drill Cuddy
PURPOSE OF HOLE: Define D Lens
PROPOSED CO-ORDS: 40379 E 10613 N
INCLINATION: -45°
BEARING: 090° GRID MAG
TARGET: E N
DEPTH:
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING: $89^{\circ} 46'$ GRID MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40389.3 E 10612.9 N
R.L. OF COLLAR: 907.5
INCLINATION OF HOLE: $-45^{\circ} 27'$
PICKED UP BY: B. Lennon DATE: 26/10/79

SUMMARY LOGGED BY: R. E. Sandell Davies
RESULTS: 7-9m, 2m @ 0.5% WO_3

DRILLING DATE COMMENCED: 18/10/79 DATE TERMINATED: 22/10/79
DRILLER/CONTRACTOR: K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE:
DEPTH:
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 137.5m
REASON FOR TERMINATION: In Granite
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY:
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 615/4

Surveyed method: Multishot
 Final depth: 37.50
 Casing depth: -

Depth surveyed to: 37.50
 Date surveyed: 22/10/79
 Surveyed by: L. Denby
 Checked by:

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.		S	E
10.00	91°	63°	44° 15'	45° 45'	7.16	.12	6.98
22.00	90°	62°	44° 45'	45° 15'	15.68	.12	15.43
37.50	90°	62°	44° 00'	46° 00'	26.83	.12	26.20

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 615/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.7m	2.7	2.5	93
2.7 - 5.7	3.0	3.0	100
5.7 - 8.7	3.0	3.0	100
8.7 - 11.7	3.0	3.0	100
11.7 - 14.7	3.0	3.0	100
14.7 - 17.4	2.7	2.7	100
17.4 - 19.9	2.5	2.5	100
19.9 - 22.4	2.5	2.5	100
22.4 - 24.1	1.7	1.7	100
24.1 - 25.9	1.8	1.8	100
25.9 - 27.8	1.9	1.9	100
27.8 - 29.2	1.4	1.4	100
29.2 - 31.1	1.9	1.9	100
31.1 - 33.7	2.6	2.6	100
33.7 - 35.4	1.7	1.7	100
35.4 - 37.0	1.6	1.4	88
37.0 - 37.5	0.5	0.4	80
EOH 37.5m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 615/4

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 7563	4	5	1.0	1.0	<0.01			
64	5	6	"	"	<0.01			
65	6	7	"	"	<0.01			
66	7	8	"	"	0.51			
67	8	9	"	"	0.49			
68	9	10	"	"	0.18			
69	10	11	"	"	<0.01			
70	11	12	"	"	<0.01			
71	12	13	"	"	<0.01			
72	13	14	"	"	<0.01			
73	14	15	"	"	<0.01			
74	15	16	"	"	0.07			
75	16	17	"	"	0.25			
76	17	18	"	"	0.05			
77	18	19	"	"	0.15			
78	19	20	"	"	0.20			
79	20	21	"	"	0.81			
80	21	22	"	"	0.21			
81	22	23	"	"	0.01			
82	27	28	"	"	0.02			
83	28	29	"	"	0.01			
84	29	30	"	"	0.05			
85	30	31	"	"	<0.01			
86	31	32	"	"	<0.01			
87	32	33	"	"	0.01			
88	33	34	"	"	0.02			
89	34	35	"	"	<0.01			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 615/4

0.0 - 34.48m BANDED FOOTWALL BEDS

This is a typical Banded Footwall Beds sequence consisting of Biotite hornfels/marble/garnet hornfels with minor pyroxene hornfels.

The first 22m (approximately) is mostly thickly bedded and generally 1.0 - 30.0 cm thick. From 22 - 28m the rock is a more massive biotite hornfels, but still showing bedding.

The remainder of the unit is thinly bedded.

Beds of garnet hornfels are mineralised, some to about 0.8% WO₃. However, these beds are mostly thin and rare. The interval from 7.0 - 9.5m is mostly garnet hornfels, as is 20 - 21m.

Overall there are probably no economic intersection.

Bedding is	30°	to LCA @	3.0m
	25°		7.0m
	45°		9.5m
	50°		14.0m
	85°		16.0m
	60°		21.5m
	50°		25.0m
	50°		29.0m
	40°		33.0m

34.48 - 37.5 ADAMALLITE

The first 1m is fine grained, but the remainder is moderate (0.5cm) grain size.

This section of core is well broken, most pieces about 5cm long.

EOH 37.5m

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 615/4

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.L.S.			
Original Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	
7567	0.49	-	8333	0.50	<0.01	8334	0.530		8335	0.52		
7578	0.20	-	8336	0.24	<0.01	8337	0.235		8338	0.23		

GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 615/3

PLANNING PROPOSER: R. E. Sandell Davies DEPTH: 35m
LOCATION: N61 Diamond Drill Cuddy
PURPOSE OF HOLE: Define D Lens
PROPOSED CO-ORDS: 40379 E 10613 N
INCLINATION: -90°
BEARING: $^{\circ}$ GRID $^{\circ}$ MAG
TARGET: E N
DEPTH:
CHECKED BY: DATE:

SURVEY SURVEY CO-ORDS: 40383.8 E 10613.0 N
SURVEYED BEARING: $^{\circ}$ GRID $^{\circ}$ MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40383.8 E 10613.0 N
R.L. OF COLLAR: 905.8
INCLINATION OF HOLE: -90°
PICKED UP BY: B. Lennon DATE: 16/10/79

SUMMARY LOGGED BY: R. E. Sandell Davies
RESULTS: 13-15m, 2m @ 0.4% WO_3
23-27m, 4m @ 0.56% WO_3

DRILLING DATE COMMENCED: 12/10/79 DATE TERMINATED: 16/10/79
DRILLER/CONTRACTOR: K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE:
DEPTH:
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 39.8m
REASON FOR TERMINATION: Finished in Adamellite
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 615/3

Surveyed method: Multishot
 Final depth: 39.80m
 Casing depth: 1m

Depth surveyed to: 39.80
 Date surveyed: 17/10/79
 Surveyed by: L. Denby
 Checked by:

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.		S	W
20.00	262°	234°	0° 15'	-89° 45'	20.00	0.01	0.09
39.80	266°	238°	1° 00'	-89° 00'	39.80	0.03	0.44

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 615/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	2.4	80
3.0 - 6.0	3.0	3.0	100
6.0 - 9.0	3.0	3.0	100
9.0 - 11.9	2.9	2.9	100
11.9 - 14.7	2.8	2.8	100
14.7 - 17.0	2.3	2.3	100
17.0 - 19.7	2.7	2.7	100
19.7 - 22.7	3.0	3.0	100
22.7 - 25.4	2.7	2.7	100
25.4 - 27.0	1.6	1.6	100
27.0 - 28.7	1.7	1.7	100
28.7 - 29.8	1.1	1.1	100
29.8 - 32.0	2.2	2.2	100
32.0 - 35.0	3.0	3.0	100
35.0 - 36.7	1.7	1.7	100
36.7 - 39.8	3.1	3.0	100
 EOH 39.8m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 615/3

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 7225	0	1	1.0	1.0	<0.01			
26	1	2	"	"	0.17			
27	2	3	"	"	0.69			
28	3	4	"	"	0.23			
29	4	5	"	"	0.21			
30	5	6	"	"	<0.01			
31	6	7	"	"	0.03			
32	7	8	"	"	0.06			
33	8	9	"	"	<0.01			
34	9	10	"	"	<0.01			
35	10	11	"	"	<0.01			
36	11	12	"	"	<0.01			
37	12	13	"	"	0.09			
38	13	14	"	"	0.45			
39	14	15	"	"	0.34			
40	15	16	"	"	<0.01			
41	16	17	"	"	<0.01			
42	17	18	"	"	<0.01			
43	18	19	"	"	<0.01			
44	19	20	"	"	<0.01			
45	20	21	"	"	0.25			
46	21	22	"	"	0.13			
47	22	23	"	"	<0.01			
48	23	24	"	"	0.44			
49	24	25	"	"	1.16			
50	25	26	"	"	0.26			
51	26	27	"	"	0.38			
52	27	28	"	"	0.14			
53	28	29	"	"	0.02			
54	29	30	"	"	0.07			
55	30	31	"	"	0.04			
56	31	32	"	"	0.26			
57	32	33	"	"	0.04			
58	33	34	"	"	0.14			
59	34	35	"	"	0.08			
60	35	36	"	"	0.01			
61	36	37	"	"	0.03			
62	37	38	"	"	0.01			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 615/3

0.0 - 36.9m MINERALISED BANDED FOOTWALL BEDS

Typical Banded Footwall Beds sequence consisting of Marble/
garnet hornfels/biotite hornfels/pyroxene hornfels.

Beds of garnet hornfels vary in thickness from 1.0 - 30cm and
average about 0.8% WO_3 .

However, since they only comprise about 30% of the core, the
average grade is probably nearer 0.3%.

Bedding is at	60	to LCA @	4m
	45		6m
	40		9m
	50		13m
	70		17m
	75		22m
	20		23m
	65		26m
	30		31m
	30		35m

36.9 - 39.8 ADAMELLITE

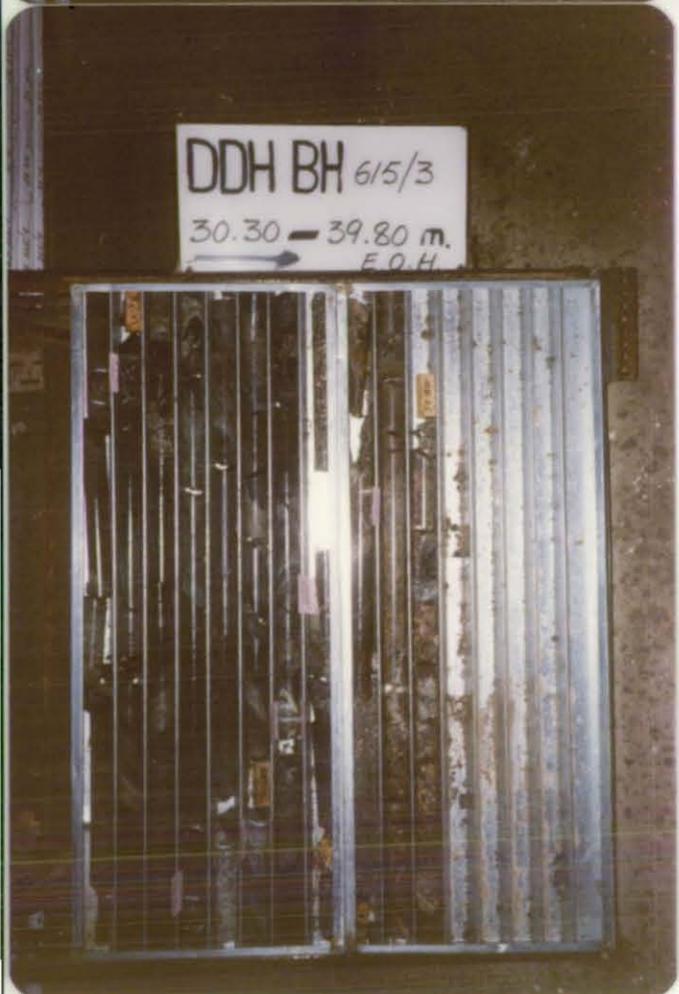
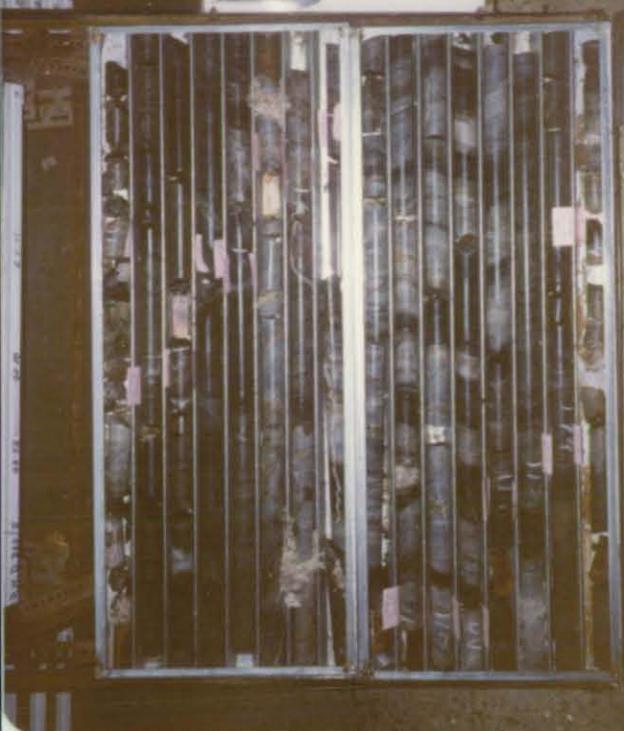
Pink, coarse grained, (0.7cm) equigranular intrusion.

EOH 39.8m

DDH BH 615/3
0.00 — 15.28 m.

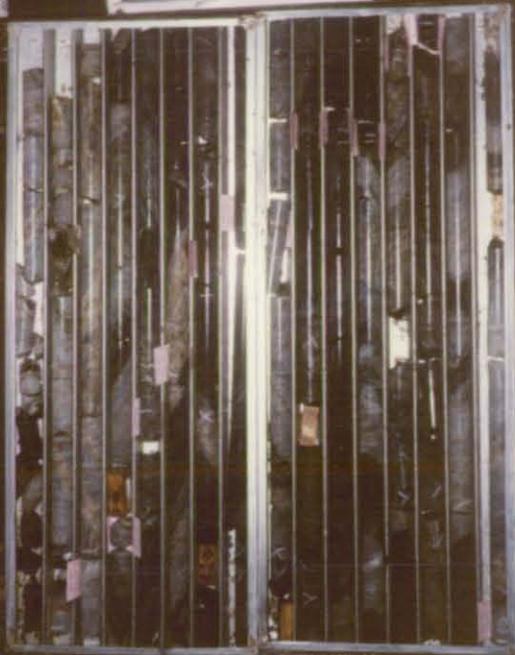
DDH BH 615/3
15.28 — 30.30 m.

DDH BH 615/3
30.30 — 39.80 m.
E.O.H.



DDH BH 615/2

0.00 — 14.89 m.



DDH BH 615/2

14.89 — 29.22 m.



DDH BH 615/2

29.22 — 41.60 m.
F.O.H.



GEOLOGY - KING ISLAND SCHEELITE

LOG OF D.D.H. No. BH 615/2

PLANNING PROPOSER: R. E. Sandell Davies DEPTH: 25m
LOCATION: N61 Drill Cuddy
PURPOSE OF HOLE: Define D Lens
PROPOSED CO-ORDS: 40379 E 10613 N
INCLINATION: -45°
BEARING: 270° GRID MAG
TARGET: E N
DEPTH:
CHECKED BY: S. G. Brown DATE: 5/10/79

SURVEY SURVEY CO-ORDS: E N
SURVEYED BEARING $269^{\circ} 26' 30''$ GRID MAG
SURVEYED IN BY: DATE:
ACTUAL CO-ORDS: 40382.5 E 10613.0 N
R.L. OF COLLAR: 907.4
INCLINATION OF HOLE: -45°
PICKED UP BY: D. Cameron DATE: 9/10/79

SUMMARY LOGGED BY: R. E. Sandell Davies
RESULTS: No Economic Mineralisation

DRILLING DATE COMMENCED: 5/10/79 DATE TERMINATED: 10/10/79
DRILLER/CONTRACTOR: K.I.S.
CASING: SIZE:
DEPTH:
CORE: SIZE:
DEPTH:
WEDGE PLACED: DEPTH: PROPOSER:
EXTENSION:
FINAL DEPTH: 41.6m
REASON FOR TERMINATION: Finished in Granite
CONDITION OF HOLE ON COMPLETION:
CASING:
CEMENTED:
BORE HOLE SURVEY:
WATER:
COMMENTS ON DRILLING CONDITIONS:

GEOLOGY - KING ISLAND SCHEELITE

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 615/2

Surveyed method: Multishot
 Final depth: 41.60m
 Casing depth: -

Depth surveyed to: 37.00m
 Date surveyed: 17/10/79
 Surveyed by: L. Denby
 Checked by:

Depth (m)	Bearing		Inclination		True Vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corr.		S	W
20.00	270°	242°	44°	-46°	14.39	00.00	13.89
37.00	270°	242°	44°	-46°	26.62	00.00	25.70
41.60	270°	242°	44°	-46°	29.93	00.00	28.90

REMARKS:

GEOLOGY - KING ISLAND SCHEELITE

CORE RECOVERY

D.D.H. No. BH 615/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.0	3.0	3.0	100
3.0 - 5.6	2.6	2.5	100
5.6 - 8.6	3.0	3.0	100
8.6 - 11.6	3.0	3.0	100
11.6 - 14.6	3.0	3.0	100
14.6 - 17.3	2.7	2.7	100
17.3 - 20.2	2.9	2.9	100
20.2 - 23.2	3.0	3.0	100
23.2 - 26.0	2.8	2.7	96
26.0 - 28.6	2.6	2.6	100
28.6 - 29.4	0.8	0.8	100
29.4 - 30.0	0.6	0.5	83
30.0 - 31.5	1.5	1.5	100
31.5 - 32.6	1.1	1.0	91
32.6 - 33.4	0.8	0.7	88
33.4 - 34.8	1.4	1.3	93
34.8 - 35.3	0.5	0.4	80
35.3 - 36.4	1.1	1.1	100
36.4 - 39.1	2.7	2.6	96
39.1 - 41.6	2.5	2.5	100
EOH 41.6m			

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. BH 615/2

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO ₃	Mo		
BH 7204	0	1	1.0	1.0	<0.01			
05	1	2	"	"	<0.01			
06	2	3	"	"	<0.01			
07	3	4	"	"	0.27			
08	4	5	"	"	0.04			
09	5	6	"	"	<0.01			
10	6	7	"	"	0.24			
11	7	8	"	"	0.48			
12	8	9	"	"	0.24			
13	9	10	"	"	0.01			
14	10	11	"	"	<0.01			
15	11	12	"	"	0.20			
16	12	13	"	"	0.45			
17	13	14	"	"	<0.01			
18	19	20	"	"	<0.01			
19	20	21	"	"	<0.01			
20	21	22	"	"	<0.01			
21	22	23	"	"	<0.01			
22	23	24	"	"	<0.01			
23	24	25	"	"	<0.01			
24	31	32	"	"	0.05			

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. BH 615/2

0.0 - 25.8m MINERALISED BANDED FOOTWALL BEDS

Typical Banded Footwall Beds consisting mostly of marble with interbedded biotite hornfels, garnet hornfels and minor pyroxene hornfels.

Only the beds of garnet skarn are mineralised and these have grades of about 0.6 - 0.9% WO_2 . However, as they are generally only 5.0 - 20.0cm thick and comprise probably 30% of the core, average grades would not be much above 0.3%, if at all.

Bedding is	30°	to LCA @	3.0m
	37°		7.0m
	30°		9.0m
	40°		14.6m
	41°		16.4m
	27°		21.8m
	48°		25.0m

25.8 - 39.1 FAULT ZONE

This zone probably represents the Western Fault.

It is characterised throughout by very fragmented core, pieces are generally <10cm, numerous 2cm size pieces are present, especially from 29m on.

The lithology is Banded Footwall Beds except for 50cm of aplite at 28.8 - 29.3. A small amount of scheelite is present at 31.5m.

Most fragments show slickenslides.

Bedding is	34°	to LCA @	27.0m
	48°		33.4m

39.1 - 41.6 ADAMILLITE

This rock is pink, medium grained and equigrannular.

It is not mineralised.

EOH 41.6m

GEOLOGY - KING ISLAND SCHEELITE

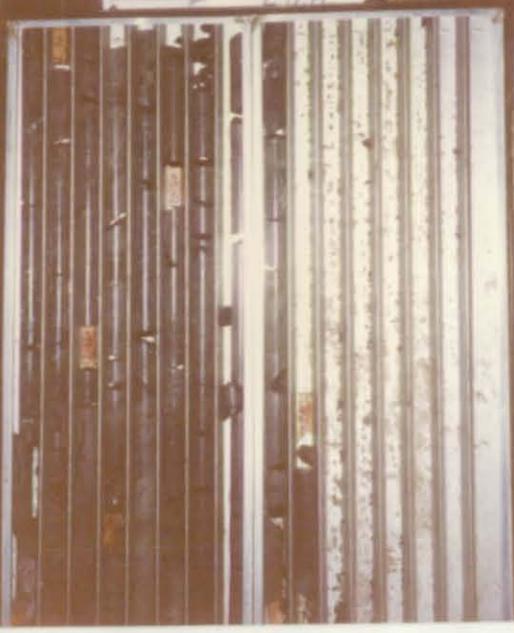
CHECK ASSAY DATA

D.D.H. No. BH 615/2

LAB. K.I.S.			LAB. K.I.S. CHECK			LAB. AMDEL			LAB. A.L.S.			
Original Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	Check Sample No	WO ₃	Mo	
7207	0.27	-	8306	0.26	<0.01	8307	0.320		8308	0.38		

DDH BH 615/1E
0.00 — 14.96 m.

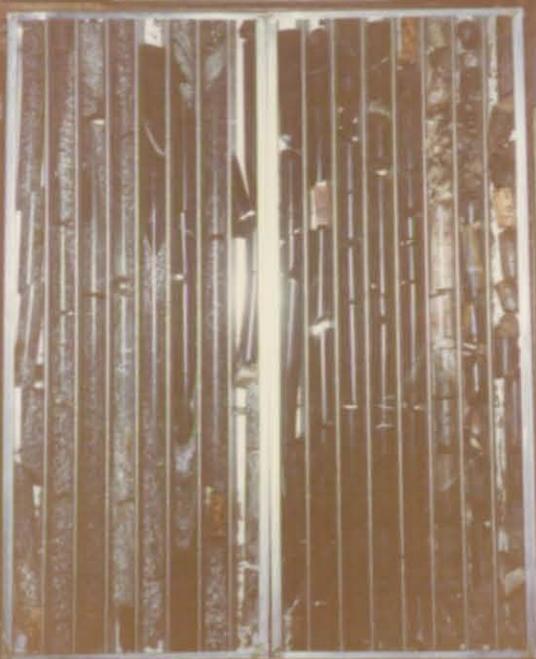
DDH BH 615/1E
14.96 — 23.30 m.
E.D.H.



DDH BH 615/1
0.00 — 14.95 M



DDH BH 615/1
14.95 — 30.26 M



DDH BH 615/1
30.26 — 37.50 m
E.O.H.

