GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. Bold Head 450/7

PLANNING

Proposer: S.G. Brown — Depth: 25m

Location: L43 drive

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

Co-ordinates: 10330 E — E 10450 — N
Inclination: -54°
Bearing -270° — Grid
Target: — E — N
Approved by: M.C. Rogers — Magnetic:
Target Depth:
Date: 15/12/75

SURVEY

Survey Co-ords: 40 331.55 E — 10 449.74 — N
Survey bearing: ~~86° 45'~~ Grid — Magnetic:
Surveyed in by: 266° 45' — Date:
Actual Co-ords: — E — N
R.L. of Collar: 1030.12 — Inclination of Hole: -54 20'
Picked up by: A. Grigulis — Date: 8/12/76

SUMMARY

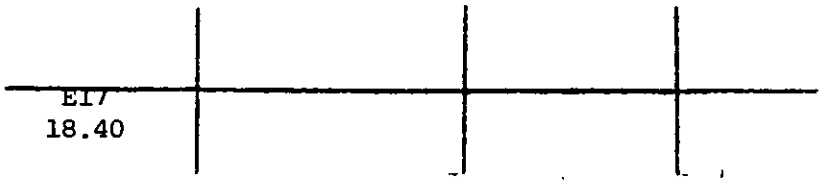
Logged by: R. van den Bogaart
Results: 0.00m - 3.0m 3m @ 0.56% WO_3

DRILLING

Driller/Contractor: Geopeko

Date commenced: 25/11/76 — Date terminated: 29/11/76

Casing: Size:
Depth:
Core: Size: EIT
Depth: 18.40



Wedge Runoff: -
Wedge placed: — Depth:
Proposed by: — Approved by:
Reason:
Extension: Nil
Reason for termination: Passed through No.2 Fault.

Condition of hole on completion: — Final depth: 18.40
Casing: No
Cemented: No
Bore hole survey: Acid test.
Water: No

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. Bold Head 450/7

Survey method: Acid tube
Final depth : 18.40
Casing depth : -

Depth surveyed to: 18.40
Date surveyed: 29/11/76
Surveyed by : L. Limbourne
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
18.40			-62° 30'	-55° 30'			

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. Bold Head 450/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.0	3.00	2.88	96
5.6	2.60	2.60	100
7.8	2.20	2.12	96
10.0	2.20	2.00	91
12.50	2.50	2.56	102
13.75	1.25	1.21	97
15.60	1.85	1.86	101
16.80	1.20	1.18	98
18.40	1.60	0.88	55
E.O.H			

GEOPEKO LIMITED - Bold Heae Mine

ASSAY DATA

D.D.H. No. B 450/7

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 4160	0.00	1.0	1.0	1.0	0.73	0.05	0.0 - 3.0	
1	1.0	2.0	1.0	1.0	0.21	0.02	3m @ 0.56% WO_3	
2	2.0	3.0	1.0	1.0	0.74	0.05		
3	3.0	4.0	1.0	1.0	0.24	0.02		
4164	4.0	5.0	1.0	1.0	0.06	0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No:Bold Head 450/7

0.00 - 4.30 PYROXENE GARNET SKARN

A brownish-green unit of pyroxene garnet skarn, consisting of andradite, and pyroxene with minor grossularite, actinolite and calcite. The unit contains an erratic carbonate content in the groundmass. The unit contain fine grained scheelite throughout and should reach ore grade.

NO.2 Fault is not distinctive as no breccia zone or carbonate filled fault plain is present. It is assumed that No2 Fault occurs at the contact between the Pyroxene Garnet Skarn and the Middle Volcanics.

4.30 - 16.78 MIDDLE VOLCANICS

A biotite rich middle volcanic unit. Essentially the unit consists of irregular areas rich in biotite and/or chlorite with pyrite, and other patches consisting of the more "typical" Middle Volcanics, ie; a greyish fine grained rock with an uneven distribution of white feldspar blebs. The unit is somewhat mottled by the formation of patches rich in biotite and/or chlorite.

16.78 - 18.40 BIOTITE PYROXENE HORNFELS

A greyish-green unit of banded Biotite Pyroxene Hornfels. This unit is broken throughout and core loss occurs here. Banding is at 80° LCA @ 18.20m.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 450/7

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4160	0.73	0.05	2466	0.71		2467	0.88		2468	0.78		
BH 4163	0.24	0.02	2469	0.22		2470	0.32		2471	0.25		


DDH BH 450/7
E.O.H.
0.00 ~ 18.40 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 450/6

PLANNING

Proposer: S.G. Brown — Depth: 20m

Location: 0 45 Cuddy, N 53 drive.

Purpose of hole: To test B lens East

Co-ordinates: 10 377.6 E 10450 N
Inclination: -75°
Bearing 270° Grid
Target: E
Approved by: M.C. Rogers

Magnetic:
Target Depth:
N
Date: 5/7/76

SURVEY

Survey Co-ords: E N
Survey bearing: 266°49' Grid
Surveyed in by:
Actual Co-ords: 10 378.80 E 10 450.05 N
R.L. of Collar: 961.74
Picked up by: J. Cook

Magnetic:
Date:
Inclination of Hole: -73°20'
Date: 3/9/76

SUMMARY

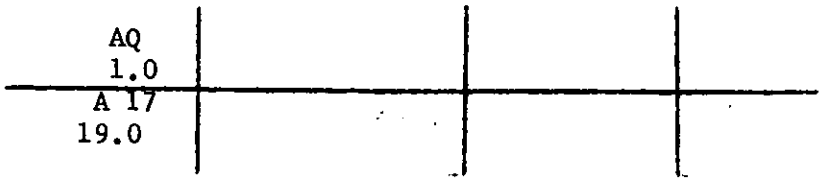
Logged by: S.G. Brown
Results: 1.0 - 11.0m, 10m @ 0.86% WO_3
N.B.: 0-1.0 no core recovered.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 28/7/76 — Date terminated: 2/8/76

Casing:	Size:	AQ
	Depth:	1.0
Core:	Size:	A 17
	Depth:	19.0



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

Extension: Nil
Reason for termination: Hole entered barren marble

Condition of hole on completion: — Final depth: 19.0
Casing: Pulled
Cemented: No
Bore hole survey: Multishot camera
Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 450/6

Survey method: Multishot camera
Final depth : 19m
Casing depth : 1m

Depth surveyed to: 18m
Date surveyed: 2/8/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
6.0	264°00'	236°00'	-15°00'	-75°00'	5.80	0.87	1.28
9.0	268°00'	240°00'	-15°30'	-74°30'	8.69	1.27	1.97
12.0	268°30'	240°30'	-15°30'	-74°30'	11.58	1.66	2.67
15.0	268°30'	240°30'	-15°30'	-74°30'	14.47	2.05	3.37
18.0	268°00'	240°00'	-16°00'	-74°00'	17.35	2.47	4.09

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 450/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 4.00	4.00	2.97	74.2%
4.00 - 7.00	3.00	2.94	98.0%
7.00 - 10.00	3.00	3.08	102.7%
10.00 - 13.00	3.00	3.03	101.0%
13.00 - 16.00	3.00	3.03	101.0%
16.00 - 19.00	3.00	3.01	100.3%
19.00 E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 450/6

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
							0 - 1.0m No core recovered.
BH 3591	1.0	2.0	1.0	1.0	0.76	0.05	
2	2.0	3.0	1.0	1.0	0.56	0.04	
3	3.0	4.0	1.0	1.0	1.84	0.12	
4	4.0	5.0	1.0	1.0	0.56	0.02	1.0 - 11.0m,
5	5.0	6.0	1.0	1.0	<0.01	<0.01	10m @ 0.86% WO_3
6	6.0	7.0	1.0	1.0	0.47	0.02	
7	7.0	8.0	1.0	1.0	0.57	0.03	
8	8.0	9.0	1.0	1.0	2.05	0.09	
9	9.0	10.0	1.0	1.0	1.18	0.06	
3600	10.0	11.0	1.0	1.0	0.61	0.04	
1	11.0	12.0	1.0	1.0	0.08	<0.01	
2	12.0	13.0	1.0	1.0	<0.01	<0.01	
3	13.0	14.0	1.0	1.0	0.14	0.01	
4	14.0	15.0	1.0	1.0	<0.01	<0.01	
5	15.0	16.0	1.0	1.0	0.07	<0.01	
6	16.0	17.0	1.0	1.0	<0.01	<0.01	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 450/6

0.00 - 4.75 GARNET SKARN

A course grained garnet (andradite) pyroxene skarn containing high grade scheelite mineralisation present as finely disseminated crystals.

4.75 - 8.51 PYROXENE GARNET HORNFELS

This unit is dominantly a disturbed pyroxene garnet rock with bands of biotite rich material occasionally present in it.

Scheelite mineralisation is present in varying amounts.

Bedding is at 30° LCA at 5.80m.

8.51 - 8.53 No. 2 FAULT

A small zone of biotite hornfels with minor calcite and clinohumite.

8.53 - 10.88 PYROXENE GARNET HORNFELS

A disturbed unit of pyroxene garnet hornfels with moderate to good scheelite mineralisation present throughout.

10.88 - 16.59 MINERALISED MARBLE

This is a marble unit that has been partially skarnified. The unit consists of recrystalized marble with irregular amounts of pyroxene and garnet present throughout.

Scheelite mineralisation is erratic and probably sub grade.

16.59 - 19.00 MARBLE

A banded grey - black marble with well developed spots present in some bands.

This unit is completely barren.

Bedding is at 55° LCA at 18.0m.

19.00 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. OBH 450/6

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 3595	<0.01		BH 1784	<0.01		BH 1785	0.06		BH 1786	0.039		
3605	0.07		1787	0.06		1788	0.105		1789	0.097		


DDH BH450/6
0.0 - 14.36 m.


DDH BH450/6
14.36 - 19.00 m.
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 450/5

PLANNING

Proposer: S.G. Brown — Depth: 35m

Location: 0 45 drill cuddy N 53 drive.

Purpose of hole: To test BF2 and possible extensions.

Co-ordinates: 10380.0 E 10450.0 N
Inclination: -62°
Bearing 090 Grid
Target: E N
Approved by: M.C. Rogers.

Magnetic:
Target Depth:
Date: 5/7/76

SURVEY

Survey Co-ords: E N
Survey bearing: 92°39' Grid
Surveyed in by:
Actual Co-ords: 10 379.63 E 10 450.04 N
R.L. of Collar: 961.73
Picked up by: J. Cook

Magnetic:
Date:
Inclination of Hole: -60°27'
Date: 6/8/76

SUMMARY

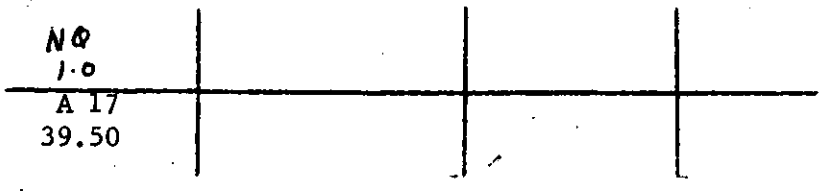
Logged by: S.G. Brown
Results: 0.0 - 5.0m, 5m @ 1.21% WO_3
14.0 - 29.0m, 15m @ 0.65% WO_3
32.0 - 36.0m, 4m @ 0.61% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 19/7/76 — Date terminated: 23/7/76

Casing: Size: NQ
Depth: 1.0
Core: Size: A 17
Depth: 39.50



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

Extension: Nil
Reason for termination: Below mineral zone

Condition of hole on completion: — Final depth: 39.50m
Casing: Pulled
Cemented: No
Bore hole survey: Multishot
Water: Minor

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 450/5

Survey method: Multishot Camera
Final depth : 39.50m
Casing depth : 1.0m

Depth surveyed to: 39m
Date surveyed: 23/7/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
9.0	96	68	-28 45'	-61 15'	7.89	1.62	4.01
18.0	92	64	28 15'	-61 45'	15.80	3.54	7.85
27.0	91	63	28 15	-61 45'	23.72	5.49	11.66
39.0	92	64	28 30'	-61 30'	34.26	8.01	16.82

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 450/5

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 4.0	4.0	3.28	82.0%
4.0 - 7.0	3.0	2.71	90.3%
7.0 - 10.0	3.0	3.03	101.0%
10.0 - 13.0	3.0	3.00	100.0
13.0 - 16.0	3.0	3.00	100.0
16.0 - 19.0	3.0	3.03	101.0%
19.0 - 22.0	3.0	2.91	97.00%
22.0 - 25.0	3.0	3.13	104.3%
25.0 - 28.0	3.0	3.02	100.7%
28.0 - 31.0	3.0	2.95	98.3%
31.0 - 34.0	3.0	3.01	100.3%
34.0 - 37.0	3.0	3.01	100.3%
37.0 - 39.5	2.5	2.47	98.8%

GEOPEKO LIMITED - BOLD HEAD

ASSAY DATA

D.D.H. No. B 450/5

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH 3553	0.0	1.0	1.0	0.32	0.58	0.03	
4	1.0	2.0	1.0	1.0	0.84	0.05	0.0 - 5.0m, 5m
5	2.0	3.0	1.0	1.0	2.10	0.12	@ 1.21% WO_3
6	3.0	4.0	1.0	1.0	0.86	0.04	
7	4.0	5.0	1.0	1.0	2.05	0.11	
8	5.0	6.0	1.0	1.0	<0.01	<0.01	
9	6.0	7.0	1.0	1.0	0.30	0.01	
3560	7.0	8.0	1.0	1.0	<0.01	<0.01	
1	8.0	9.0	1.0	1.0	0.06	<0.01	
2	9.0	10.0	1.0	1.0	<0.01	<0.01	
3	10.0	11.0	1.0	1.0	<0.01	<0.01	
4	11.0	12.0	1.0	1.0	0.28	0.01	
5	12.0	13.0	1.0	1.0	<0.01	<0.01	
6	13.0	14.0	1.0	1.0	0.39	0.01	
7	14.0	15.0	1.0	1.0	0.98	0.04	
8	15.0	16.0	1.0	1.0	0.44	<0.01	
3569	16.0	17.0	1.0	1.0	1.00	0.06	
3570	17.0	18.0	1.0	1.0	1.00	0.05	
1	18.0	19.0	1.0	1.0	0.51	0.02	14.0 - 29.0m, 15m
2	19.0	20.0	1.0	1.0	0.97	0.04	@ -.65% WO_3
3	20.0	21.0	1.0	1.0	0.27	0.01	
4	21.0	22.0	1.0	1.0	0.36	0.01	
5	22.0	23.0	1.0	1.0	0.58	0.02	
6	23.0	24.0	1.0	1.0	0.18	<0.01	
7	24.0	25.0	1.0	1.0	0.76	0.05	
8	25.0	26.0	1.0	1.0	0.75	0.04	
9	26.0	27.0	1.0	1.0	0.75	0.02	
3580	27.0	28.0	1.0	1.0	0.37	0.01	
1	28.0	29.0	1.0	1.0	0.43	0.03	
2	29.0	30.0	1.0	1.0	0.16	0.01	
3	30.0	31.0	1.0	1.0	0.02	<0.01	
4	31.0	32.0	1.0	1.0	0.12	<0.01	
3585	32.0	33.0	1.0	1.0	0.38	0.01	
6	33.0	34.0	1.0	1.0	0.92	0.05	32.0 - 36.0m, 4m
7	34.0	35.0	1.0	1.0	0.52	0.02	@ 0.61% WO_3
8	35.0	36.0	1.0	1.0	0.62	0.02	
9	36.0	37.0	1.0	1.0	0.03	<0.01	
3590	37.0	38.0	1.0	1.0	<0.01	<0.01	

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 450/5

0.0 - 3.51m GARNET SKARN

A well developed garnet skarn with course grained crystals set in a matrix of finer garnet and pyroxene.
This unit contains ore grade mineralisation.

3.51 - 12.01m PYROXENE GARNET HORNFELS

Initially this unit is slightly banded but below about 5.0m it becomes more podded in nature.
Between 9.30 - 10.69m the core is dominantly light grey green pyroxene hornfels with only minor amounts of garnet present in it.
Faults are apparant as follows:
6.65m α 18° LCA
7.49m α 19° LCA
both these faults are filled with calcite
10.73 α 65° LCA
10.97 α 31° LCA
These fractures are filled with chlorite and calcite.
Scheelite mineralisation is present throughout and in varying amounts and should reach ore grade in some places.
Banding is at 80° LCA at 3.73m
50° LCA at 3.80m
39° LCA at 4.72m

12.01 - 12.75m BAND BIOTITE PYROXENE HORNFELS

A small unit of banded biotite pyroxene hornfels with only minor garnet present in one band.
This unit contains only trace scheelite.
Banding is at 53° LCA at 12.53m.

12.75 - 36.31m PYROXENE GARNET HORNFELS

Initially this unit contains some minor biotite rich bands but below about 13.50m these are rare.
The unit is essentially a banded pyroxene garnet hornfels in which the garnet is dominant and the pyroxene occurs as thin bands and scattered pods which are probably remnants of disturbed bands.
Between 30.43 - 31.68 there is a zone of barren biotite pyroxene hornfels .
Calcite filled fractures are apparant as follows:
13.33m α 10° LCA
16.74m α 25° LCA
Scheelite is present throughout and is ore grade over most of this unit.
bedding is at 47° LCA at 19.73m
61° LCA at 27.37m
46° LCA at 31.00m
30° LCA at 31.90m
20° LCA at 34.60m
26° LCA at 35.80m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 450/5

36.31 - 38.70 BANDED FOOTWALL BEDS

A banded unit of biotite pyroxene calcite hornfels with only trace scheelite present in this unit.
bedding is at 35^{o} LCA at 36.90m
50^{o} LCA at 37.85m
These readings only seem to show how disturbed the bedding is here.

38.70 - 39.50 BANDED BIOTITE PYROXENE HORNFELS

A disturbed banded unit of biotite pyroxene hornfels with occasional pods of grossularite present in this area.

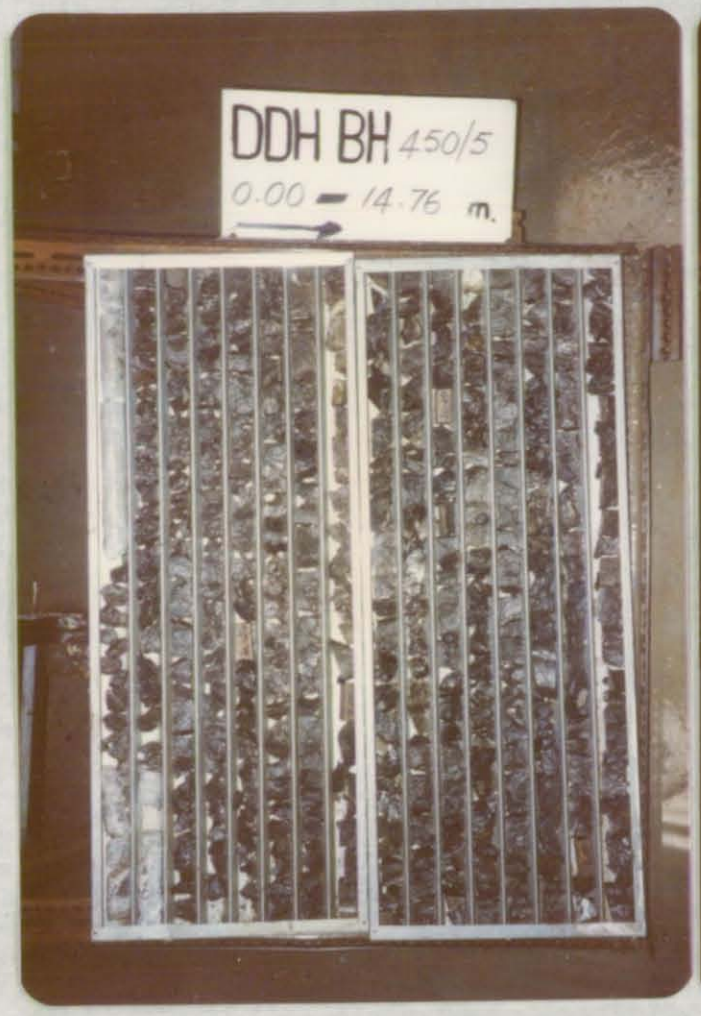
39.50 E.O.H.

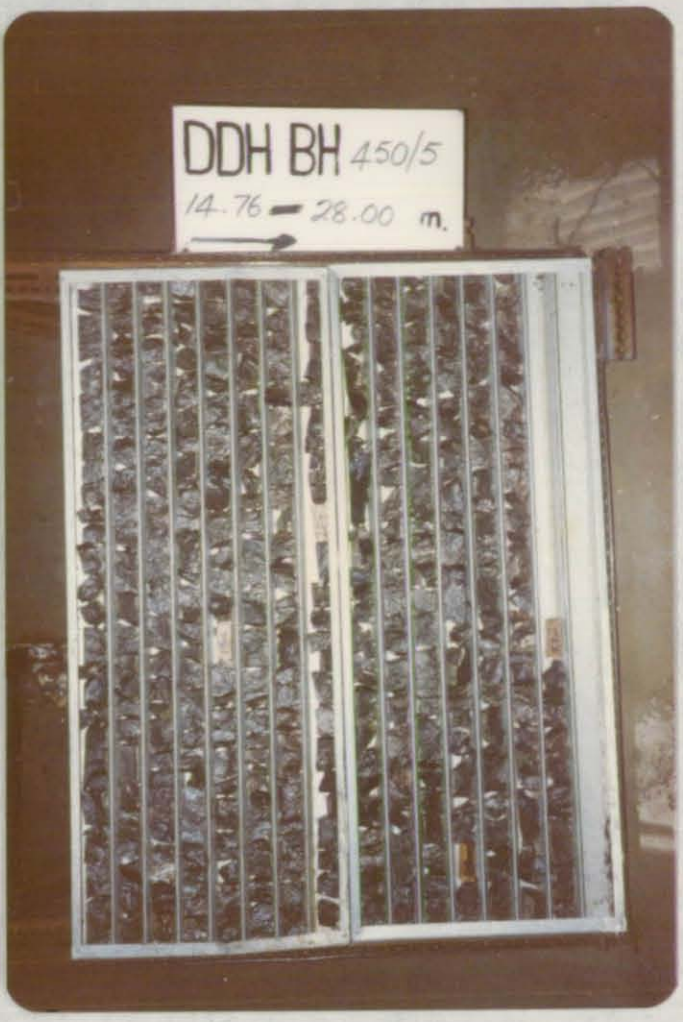
GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. ? BH 450/5

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 3560	<0.01		BH 1772	<0.01		BH 1773	0.048		BH 1774	.033		
3570	1.00		1775	0.89		1776	1.10		1777	1.05		
3580	0.37		1778	0.50		1779	0.48		1780	0.44		
3590	<0.01		1781	<0.01		1782	0.008		1783	.0035		


DDH BH 450/5
0.00 — 14.76 m.


DDH BH 450/5
14.76 — 28.00 m.


DDH BH 450/5
E.O.H
28.00 — 39.50 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 450/4

PLANNING

Proposer: S.G. Brown — Depth: 30m

Location: 0-45 drill cuddy N 53 drive.

Purpose of hole: To test BF2.

Co-ordinates: 10381.0 E 10450.0 N
Inclination: -30° Magnetic:
Bearing 090 Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 5/7/76

SURVEY

Survey Co-ords: E N
Survey bearing: $91^{\circ}26'$ Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 10 380.79 E 10 450.03 N
R.L. of Collar: 961.86 Inclination of Hole: $-28^{\circ}40'$
Picked up by: J. Cook Date: 6/8/76

SUMMARY

Logged by: S.G. Brown
Results: 10.0 - 15.0, 5m @ 1.34% WO_3
19.0 - 24.0, 5m @ 0.86% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 12/7/76 Date terminated: 16/7/76

Casing: Size: NQ
Depth: 1.5m
Core: Size: A 17
Depth: 29.70

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

Extension: Nil
Reason for termination: Entered quartzites

Condition of hole on completion: Final depth: 29.70
Casing: Pulled
Cemented: No
Bore hole survey: Multishot
Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 450/4

Survey method: Multishot Camera
Final depth : 29.70
Casing depth : 1.5m

Depth surveyed to: 29.70
Date surveyed: 2/8/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
6.0	98°	70°	-60°	-30°	3.0	1.79	4.89
12.0	93°	65°	-60°	-30°	6.0	4.03	9.59
18.0	93°	65°	-60°	-30°	9.0	6.19	14.33
24.0	93°	65°	-59° 15'	-30° 45'	12.03	8.38	19.04
29.70	93°	65°	-59° 45'	-30° 15'	14.94	10.45	23.50

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 450/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.00	3.00	2.08	69.3%
3.00 - 5.70	2.70	2.66	98.5%
5.70 - 8.70	3.00	2.91	97.0%
8.70 - 11.70	3.00	3.04	101.3%
11.70 - 14.70	3.00	2.98	99.3%
14.70 - 17.70	3.00	2.89	96.3%
17.70 - 20.70	3.00	2.94	98.0%
20.70 - 23.70	3.00	3.02	100.7%
23.70 - 26.70	3.00	3.04	101.3%
26.70 - 29.70	3.00	2.97	99.0%
29.70 E.O.H.			

GEOPEKO LIMITED - BOLD HEAD

ASSAY DATA

D.D.H. No. B 450/4

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH3329	0.00	2.0	2.0	1.2	0.48	0.01	Core loss at top of hole
3330	2.0	3.0	1.0	1.0	0.05	<0.01	
1	3.0	4.0	1.0	1.0	<0.01	<0.01	
2	4.0	5.0	1.0	1.0	<0.01	<0.01	
3	5.0	6.0	1.0	1.0	0.05	<0.01	
4	6.0	7.0	1.0	1.0	0.20	<0.01	
5	7.0	8.0	1.0	1.0	<0.01	<0.01	
6	8.0	9.0	1.0	1.0	<0.01	<0.01	
7	9.0	10.0	1.0	1.0	<0.01	<0.01	
8	10.0	11.0	1.0	1.0	0.22	<0.01	
9	11.0	12.0	1.0	1.0	2.02	0.10	10.0 - 15.0
3340	12.0	13.0	1.0	1.0	2.28	0.10	5m @ 1.34% WO_3
1	13.0	14.0	1.0	1.0	1.20	0.05	
2	14.0	15.0	1.0	1.0	0.96	0.03	
3	15.0	16.0	1.0	1.0	0.05	<0.01	
4	16.0	17.0	1.0	1.0	0.04	<0.01	
5	17.0	18.0	1.0	1.0	0.64	0.02	
6	18.0	19.0	1.0	1.0	0.23	<0.01	
3347	19.0	20.0	1.0	1.0	0.51	0.01	
8	20.0	21.0	1.0	1.0	0.64	0.01	
9	21.0	22.0	1.0	1.0	1.52	0.08	19.0 - 24.0
3350	22.0	23.0	1.0	1.0	1.21	0.06	5m @ 0.86% WO_3
3551	23.0	24.0	1.0	1.0	0.44	0.02	
3552	24.0	25.0	1.0	1.0	0.05	<0.01	

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 450/4

0.0 - 0.45 CEMENT

0.45 - 1.28 GARNET SKARN

A dark brown garnet skarn with good grade scheelite mineralisation.

1.28 - 4.05 PYROXENE GARNET HORNFELS

A disturbed unit of pyroxene garnet hornfels with irregular minor amounts of scheelite.

4.05 - 5.07 BANDED BIOTITE PYROXENE HORNFELS

A finely banded unit of biotite pyroxene hornfels, completely unmineralised..
Banding is at 48^{o} LCA at 4.32m.

5.07 - 7.71 MINERALISED BANDED FOOTWALL BEDS

A unit of pyroxene garnet calcite hornfels with well developed bedding throughout. The scheelite mineralisation is restricted to the garnet and pyroxene hornfels bands.
Overall this is sub grade.
Banding is at 65^{o} LCA at 5.35m
84^{o} LCA at 6.80m.

7.71 - 10.44 BANDED FOOTWALL BEDS

The first metre of this unit is dominantly biotite pyroxene hornfels with very minor garnet and calcite bands present in it.
Below 8.60m calcite is dominant with irregular but minor amounts of biotite, pyroxene and garnet bands present in this area.
Minor scheelite is found mainly associated with the thin garnet bands.

10.44 - 23.62 MINERALISED BANDED FOOTWALL BEDS

In this unit the dominant unit is a pyroxene garnet skarn with most of the marble horizons replaced by garnet skarn.
Scheelite mineralisation is present throughout especially in the garnet rich areas.
The original bedding of this unit has been quite badly disturbed and is only visible in some areas.
17.10m $\measuredangle 50^{o}$ LCA
20.40m $\measuredangle 51^{o}$ LCA
23.30m $\measuredangle 64^{o}$ LCA

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. : B 450/4

23.62 - 29.70 BANDED BIOTITE PYROXENE HORNFELS

This is a finely banded unit of biotite pyroxene hornfels within the first 1 metre quite a large number of garnet and calcite bands.

It appears that the garnet bands become progressively more calcite rich down the hole.

Bedding is at 78^{o} LCA at 24.50m
72^{o} LCA at 26.40m
72^{o} LCA at 28.70m

The last 60cm of core appears to be brecciated and silicified.

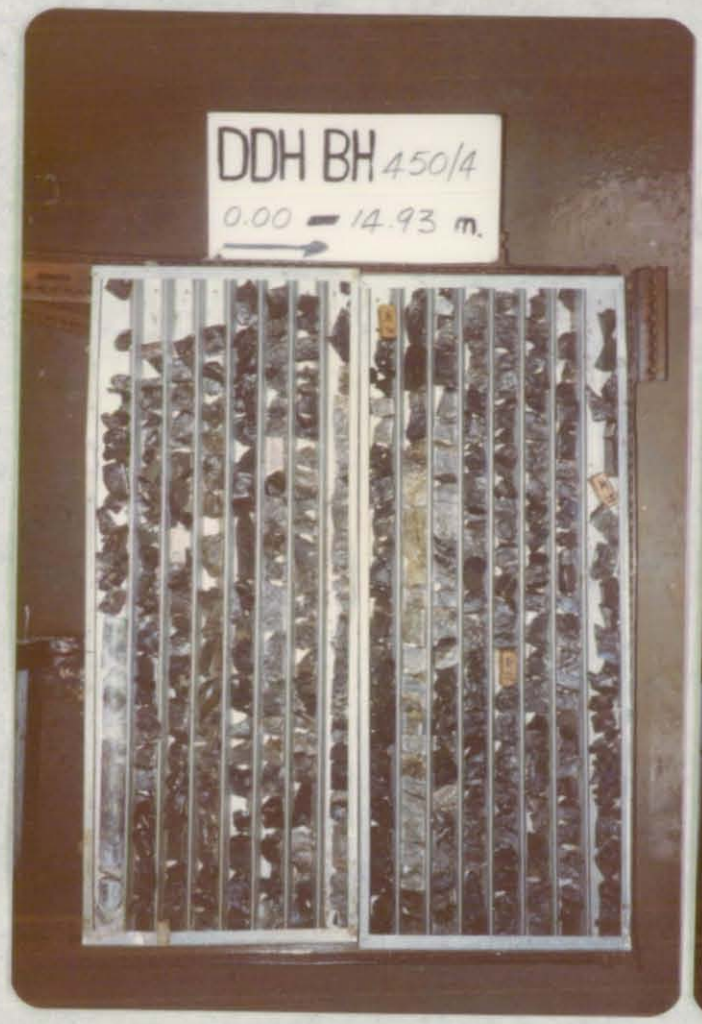
29.70 E.O.H.

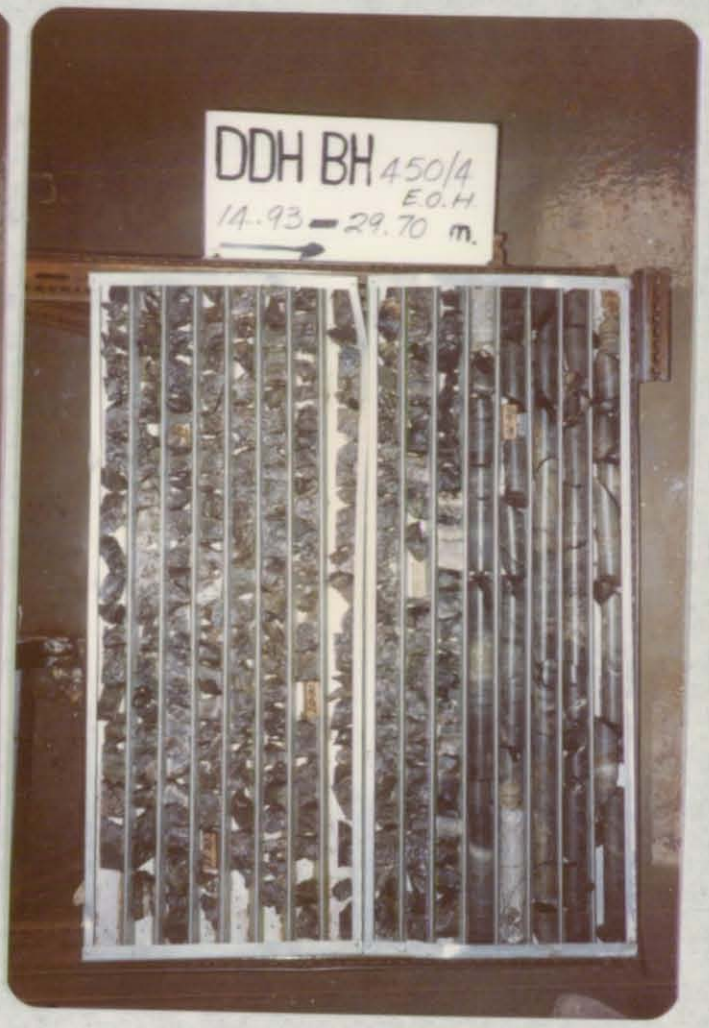
GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 450/4

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 3330	0.05		BH 1763	0.03		BH 1764	0.08		BH 1765	0.045		
3340	2.28		1766	2.34		1767	2.36		1768	2.41		
3350	1.21		1769	1.26		1770	1.34		1771	1.21		


DDH BH 450/4
0.00 — 14.93 m.


DDH BH 450/4
E.O.H
14.93 — 29.70 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 450/3

PLANNING

Proposer: S.G. Brown — Depth: 27m

Location: 0 45 drill cuddy N 53 drive.

Purpose of hole: To test BF1 and top of BF2.

Co-ordinates: 10381.0 E 10450.0 N
Inclination: +3°
Bearing 090 Grid — Magnetic:
Target: E — Target Depth:
Approved by: M.C. Rogers — Date: 1/7/76

SURVEY

Survey Co-ords: E N
Survey bearing: 92°24' Grid — Magnetic:
Surveyed in by: — Date:
Actual Co-ords: 10450.11 N E 10381.27 E N
R.L. of Collar: 962.99 — Inclination of Hole: +4°37'
Picked up by: J. Cook — Date: 6/8/76

SUMMARY

Logged by: S.G. Brown
Results: 14 - 17m, 3m @ 1.21% WO_3
19 - 23m, 4m @ 1.71% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 2/7/76 — Date terminated: 8/7/76

Casing: Size: NIL
Depth:
Core: Size: A17
Depth: 26.50

Wedge Runoff:
Wedge placed: Nil — Depth:
Proposed by: — Approved by:
Reason:
Extension: Nil
Reason for termination: Entered quartzites

Condition of hole on completion: — Final depth: 26.50
Casing: Nil
Cemented: No
Bore hole survey: Multishot
Water: Yes. Intersected B 450/2

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. B 450/3

Survey method : Multishot
Final depth : 26.50
Casing depth : Nil

Depth surveyed to : 26.50
Date surveyed : 2/8/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
9.0	97°	69°	87° 15'	+2° 45'	0.53	2.93	8.50
18.0	96°	68°	87° 00'	+3° 00'	0.99	6.25	16.86
26.50	99°	71°	87° 30'	+2° 30'	1.39	9.16	24.84

REMARKS:

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. R 450/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.60	2.60	2.30	88.5
2.60- 5.60	3.00	3.00	100
5.60 - 8.60	3.00	2.94	98.0
8.60 -11.60	3.00	3.02	100.7
11.60 -14.60	3.00	3.04	101.3
14.60 -17.60	3.00	2.98	99.3
17.60 -18.00	0.40	0.41	102.5
18.00 -21.00	3.00	3.03	101.0
21.00 -24.00	3.00	2.97	99.0
24.00 -26.50	2.50	2.48	99.2

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B450/3

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo	Bi	COMMENTS
3309	0	1.0	1.0	0.8	0.45	<0.01	<100ppm	
10	1.0	2.0	1.0	1.0	<0.01	<0.01	<100ppm	
11	2.0	3.0	1.0	1.0	<0.01	<0.01	<100ppm	
12	3.0	4.0	1.0	1.0	<0.01	<0.01	<100ppm	
13	4.0	5.0	1.0	1.0	0.24	<0.01	<100ppm	
14	5.0	6.0	1.0	1.0	0.48	<0.01	<100ppm	
15	6.0	7.0	1.0	1.0	0.23	0.01	<100ppm	
16	7.0	8.0	1.0	1.0	0.17	0.04	<100ppm	
17	8.0	9.0	1.0	1.0	0.02	<0.01	<100ppm	
3318	13.0	14.0	1.0	1.0	0.15	<0.01	<100ppm	
19	14.0	15.0	1.0	1.0	0.91	0.03	<100ppm	14 - 17m, 3m @
20	15.0	16.0	1.0	1.0	0.66	0.01	<100ppm	1.21% WO_3
21	16.0	17.0	1.0	1.0	2.05	0.10	<100ppm	
22	17.0	18.0	1.0	1.0	<0.01	<0.01	750ppm	
23	18.0	19.0	1.0	1.0	0.02	<0.01	<100ppm	
24	19.0	20.0	1.0	1.0	0.73	0.03	<100ppm	
25	20.0	21.0	1.0	1.0	0.62	0.02	<100ppm	19 - 23m, 4m @
26	21.0	22.0	1.0	1.0	2.35	0.08	2000ppm	1.71% WO_3
27	22.0	23.0	1.0	1.0	3.16	0.12	3850ppm	
28	23.0	24.0	1.0	1.0	<0.01	<0.01	<100ppm	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 450/3

0.0 - 1.15m GARNET SKARN

A dark brown garnet skarn with minor to moderate amounts of scheelite present in it.

1.15 - 7.89 PYROXENE GARNET SKARN

A disturbed slightly podded unit of pyroxene garnet skarn. The overall colour is honey brown with lesser amounts of green pyroxene rich areas and minor calcite.

Scheelite mineralisation, subgrade to low grade is present throughout.

A fault is present between 3.52m - 3.62m at α 51° LCA.

7.89 - 13.85 BANDED BIOTITE PYROXENE HORNFELS

This unit is a typical in that the pyroxene bands are dominant and are very light grey green in colour.

The first metre of this unit contains minor garnet rich bands with associated trace scheelite. Some irregular 'veinlets' of garnet are also present in the pyroxene bands

bedding is at 37° LCA at 9.3m
24° LCA at 12.8m

13.85 - 22.76 BANDED FOOTWALL BEDS

A banded unit dominantly of pyroxene and garnet hornfels but with lesser amounts of biotite bands present in some areas. Biotite bands are most common between 17.15 - 18.83 where they form about 40% of the core.

At 17.90m this drill hole intersected B 450/1 drilled from A lens (L 43).

Moderate to minor scheelite is present between 13.85 and 17.15m. Good grade scheelite is present between 18.83 and 22.76m. 17.15 - 18.85m contains subgrade mineralisation due to the lack of suitable garnet skarn horizons.

Bismuth is apparant in the core between 21.5 and 22.5 in association with very large amounts of pyrrhotite.

Bedding is at 54° LCA at 18.0m
56° LCA at 20.80m.

22.76 - 25.56 DISTURBED BIOTITE PYROXENE HORNFELS

Initially this unit shows some remnant very fine beding but below 23.20m the bedding is completely disrupted. Minor pods of garnet and pyroxene occur in this unit, and minor blebs of molybdenite are also noticeable.

Bedding at 23.10m is 72° LCA.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 450/3

25.56 - 25.72 BOUNDARY FAULT

The first 4cm of this zone are mainly calcite in filling while the rest of the fault zone seems to be silicified.

25.72 - 26.50 QUARTZITES

Broken grey slightly spotted quartzites.

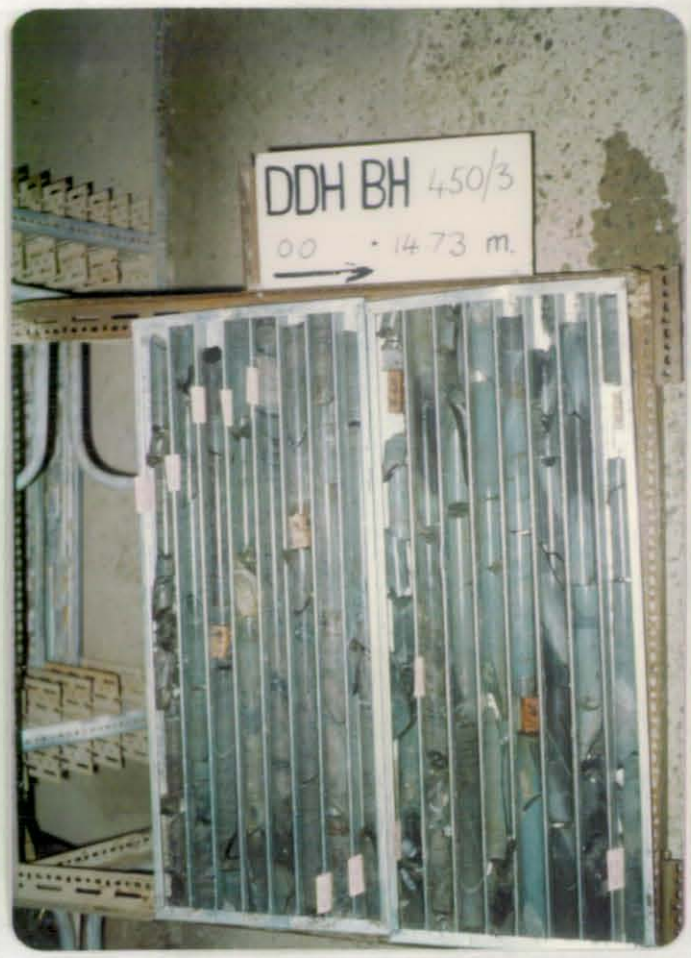
26.50 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. DBH 450/3

LAB.	K.I.S.		LAB. K.I.S.			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 3310	<0.01		BH 1757	<0.01		BH 1758	0.018		BH 1759	0.011		
3320	0.66		1760	0.35		1761	0.60		1762	0.59		


DDH BH 450/3
00 - 1473 m.


DDH BH 450/3
1473 - 2480 m.
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 450/2

PLANNING

Proposer: S.G. Brown — Depth: 165m

Location: L43 Drive'A' lens.

Purpose of hole: To test 'B' lens Fault Block at 10450 N.

Co-ordinates: 10353 E 10450 N
Inclination: -68°
Bearing 090° Grid
Target: E N
Approved by: M.C. Rogers
Magnetic:
Target Depth:
Date: 20/11/75

SURVEY

Survey Co-ords: E N
Survey bearing: 88° 24'20"Grid
Surveyed in by:
Actual Co-ords: 10 352.37 E 10 449.99 N
R.L. of Collar: 10357.76
Picked up by: J. Cook.
Magnetic:
Date:
Inclination of Hole: -67°01'16"
Date: 22/12/75

SUMMARY

Logged by: R. van den Bogaart
Results: 76.4 - 84.4, 8m @ 0.75% WO_3, 89.4 - 97.4, 8m @ 0.58% WO_3, 100.4 - 109.4, 9m @ 1.27% WO_3, 142.4 - 146.4, 4m @ 2.69% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 13/12/75 — Date terminated:

Casing: Size: NQ
Depth: 3m
Core: Size: BQ
Depth: 188

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

Extension: Nil
Reason for termination: Entered banded footwall beds.

Condition of hole on completion: — Final depth: 188
Casing: Yes
Cemented:

Bore hole survey: Yes. multishot camera to 180m
Water: No

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 450/2

Survey method : Multishot camera
Final depth : 188m
Casing depth : 3m

Depth surveyed to : 186m
Date surveyed : 15/1/76
Surveyed by : V.P.
Checked by : R.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
15.0	93° 45'	64° 45'	22° 15'	-67° 45'	13.88	2.49	5.12
30.0	92° 00'	64° 00'	20 °00'	-70° 00'	27.98	4.74	9.73
45.0	88° 30'	60° 30'	18° 45'	-71° 15'	42.18	7.11	13.93
60.0	87° 30'	59° 30'	18° 45'	-71° 15'	56.38	9.56	18.08
75.0	87° 30'	59° 30'	19° 00'	-71° 00'	70.56	12.04	22.28
90.0	88° 00'	60° 00'	19° 15'	-70° 45'	84.72	14.50	26.57
105.0	86° 00'	58° 00'	19° 00'	-71° 00'	98.90	17.09	30.71
120.0	85° 00'	57° 00'	17° 52'	-72° 08'	113.14	19.58	34.73
135.0	86° 00'	58° 00'	16° 15'	-73° 45'	127.53	21.86	38.32
150.0	87° 00'	59° 00'	15° 45'	-74° 15'	141.95	23.98	41.87
165.0	83° 30'	55° 30'	15° 00'	-75° 00'	156.40	26.10	45.30
186.0	83° 30'	55° 30'	15° 00'	-75° 00'	176.69	29.11	49.83

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 450/2

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 17.4	ch/ch(m)/ ch/banded bh	20+ for 1st 3m. 3 for rest.	-	carbonate and chlorite @ 11.49	66° @ 5.85 76° @ 7.0	83	54	First 3m very broken due to collaring of hole. Core lost between 0 - 5.4. First 5m of core severley leached.
17.4 - 35.4	banded bh/ Ap/ banded bph	5	-	chlorite @ 19.87. carbonate @ 31.50, 33.0. chlorite and sulphide @ 25.35, 35.08	-	96	51	Excellent core recovery. Fault Breccia at 31.06.
35.4 - 50.4	banded bph/podded bph/pgh	3	-	chlorite and sulphide @ 37.62, 38.54, 46.12, 47.63. carbonate @ 45.70, 48.35, 49.84.	-	98	83	Excellent core recovery. calcite pod 17cm in diameter @ 46.28m.
50.4 - 86.4	pgh/ap/pgh/ ch/pgh/ banded sequence	2	-	carbonate and chlorite @ 56.48, 57.77, 59.78. chlorite, carbonate and sulphide @ 61.90, 70.98.	52° @ 74.48 54° @ 75.73	98	82	Excellent core recovery. Core leached between 50.4 - 51.4 and 54.63 - 55.06

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 450/2

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
86.4 - 110.4	banded sequence/ pgh/ fault zone/ bh/banded pgh/ fault zone/ pgh/bph	4	-	chlorite and carbonate @ 103.23 chlorite, carbonate and sulphide @ 104.09. Most joints contain minor chlorite.	36° @ 100.10 35° @ 91.0m.	99	73	Fault zone between 87.70 - 88.33. breccia with 4cm thick carbonate filled fault plane. Fault zone between 98.0 - 100.47. Breccia and broken ground. Carbonate filled fault plane. Excellent core recovery.
110.4 - 143.4	bph/podded bph	3	-	carbonate and chlorite @ 110.64. Carbonate and sulphide @ 111.14. chlorite and sulphide @ 120.30,133.92, 139.10 carbonate @ 141.88	57° @ 113.30 54° @ 116.37 53° @ 128.20	98	81	Excellent core recovery.
143.4 - 167.4	pgh/ch	2	-	carbonate and chlorite @ 146.27, 150.65,157.40	66° @ 157.0 58° @ 163.54 62° @ 167.10m	99	84	Major fracture 1cm wide filled with carbonate occurs between 144.51 - 145.28 Some very coarse scheelite crystal

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No BH 450/2

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
								are associated with this fracture. Major fracture filled with carbonate and sulphide occurs @ 161.60m.
167.4 - 188 E.O.H.	banded sequence	2	-	carbonate @ 170.86, 176.30 chlorite and carbonate @ 187.20	67° @ 167.68 73° @ 180.20 56° @ 182.40 77° @ 185.94	96	75	Excellent core recovery. Slickenslides on joints @ 178.4

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. BH 450/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.0	3.0	1.22	41
5.4	2.4	1.31	55
8.4	3.0	2.97	99
11.4	3.0	3.04	101
14.4	3.0	2.84	95
17.4	3.0	3.02	101
20.4	3.0	2.98	99
23.4	3.0	2.84	95
26.4	3.0	2.86	95
29.4	3.0	3.02	101
32.4	3.0	2.69	90
35.4	3.0	2.97	99
38.4	3.0	2.92	97
41.4	3.0	2.98	99
44.4	3.0	2.97	99
47.4	3.0	2.90	97
50.4	3.0	2.98	99
53.4	3.0	2.93	98
56.4	3.0	2.59	86
59.4	3.0	3.01	100
62.4	3.0	2.87	96
65.4	3.0	2.96	99
68.4	3.0	3.05	102
71.4	3.0	2.95	98
74.4	3.0	2.86	95
77.4	3.0	3.06	102
80.4	3.0	2.92	97
83.4	3.0	2.96	99
86.4	3.0	3.0	100
89.4	3.0	2.94	98
92.4	3.0	3.02	101
95.4	3.0	3.0	100
98.4	3.0	2.96	99
101.4	3.0	2.90	97
104.4	3.0	2.97	99
107.4	3.0	2.91	97
110.4	3.0	2.95	98
113.4	3.0	2.88	96
116.4	3.0	2.96	99
119.4	3.0	2.98	99
122.4	3.0	2.94	98
125.4	3.0	3.01	100
128.4	3.0	2.96	99
131.4	3.0	2.93	98
134.4	3.0	2.91	97
137.4	3.0	2.90	97
140.4	3.0	2.93	98

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. BH 450/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
143.4	3.0	2.98	99
146.4	3.0	2.93	98
149.4	3.0	3.02	101
152.4	3.0	2.99	100
155.4	3.0	2.96	99
158.4	3.0	2.95	98
161.4	3.0	2.84	95
164.4	3.0	3.02	101
167.4	3.0	3.00	100
170.4	3.0	3.00	100
173.4	3.0	2.93	98
176.4	3.0	2.99	100
179.4	3.0	2.75	92
182.4	3.0	2.91	97
185.4	3.0	2.98	99
188.0	2.6	2.29	88
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 450/2

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
BH 2433	0	3.0	3.0	1.22	<0.01	<0.01		
4	3.0	4.0	1.0	0.76	<0.01	<0.01		
5	4.0	5.4	1.4	0.76	<0.01	<0.01		
6	6.4	6.4	1.0	1.0	<0.01	<0.01		
7	6.4	7.4	1.0	1.0	<0.01	<0.01		
8	7.4	8.4	1.0	1.0	0.18	0.01		
9	8.4	9.4	1.0	1.0	0.11	<0.01		
2440	9.4	10.4	1.0	1.0	<0.01	<0.01		
1	10.4	11.4	1.0	1.0	0.02	<0.01		
2	11.4	12.4	1.0	1.0	<0.01	<0.01		
3	48.4	49.4	1.0	1.0	<0.01	<0.01		
4	49.4	50.4	1.0	1.0	0.28	<0.01		
5	50.4	51.4	1.0	1.0	0.01	<0.01		
6	51.4	52.4	1.0	1.0	<0.01	<0.01		
7	52.4	53.4	1.0	1.0	<0.01	<0.01		
8	53.4	54.4	1.0	1.0	<0.01	<0.01		
2449	54.4	55.4	1.0	1.0	<0.01	<0.01		
2450	55.4	56.4	1.0	1.0	<0.01	<0.01		
2081	56.4	57.4	1.0	1.0	0.11	<0.01		
2	57.4	58.4	1.0	1.0	0.18	<0.01		
3	58.4	59.4	1.0	1.0	0.06	<0.01		
4	59.4	60.4	1.0	1.0	0.07	<0.01		
5	60.4	61.4	1.0	1.0	<0.01	<0.01		
6	61.4	62.4	1.0	1.0	0.05	<0.01		
7	62.4	63.4	1.0	1.0	1.58	0.07		
8	63.4	64.4	1.0	1.0	0.22	<0.01		
9	64.4	65.4	1.0	1.0	0.19	<0.01		
2090	65.4	66.4	1.0	1.0	0.04	<0.01		
1	66.4	67.4	1.0	1.0	0.05	<0.01		
2	67.4	68.4	1.0	1.0	0.07	<0.01		
3	68.4	69.4	1.0	1.0	<0.01	<0.01		
4	69.4	70.4	1.0	1.0	0.22	<0.01		
2095	70.4	71.4	1.0	1.0	0.05	<0.01		
6	71.4	72.4	1.0	1.0	0.12	<0.01		
7	72.4	73.4	1.0	1.0	0.42	0.02		
8	73.4	74.4	1.0	1.0	<0.01	<0.01		
9	74.4	75.4	1.0	1.0	<0.01	<0.01		
2100	75.4	76.4	1.0	1.0	0.12	<0.01		
1	76.4	77.4	1.0	1.0	0.67	0.04		
2	77.4	78.4	1.0	1.0	1.31	0.07		
3	78.4	79.4	1.0	1.0	1.08	0.07		
4	79.4	80.4	1.0	1.0	0.73	0.05		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 450/2

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo	COMMENTS
5	80.4	81.4	1.0	1.0	0.82	0.07	76.4 - 84.4,
6	81.4	82.4	1.0	1.0	0.49	0.03	
7	82.4	83.4	1.0	1.0	0.59	0.03	8.0m @ 0.75% WO_3
8	83.4	84.4	1.0	1.0	0.32	0.01	
9	84.4	85.4	1.0	1.0	<0.01	<0.01	
2110	85.4	86.4	1.0	1.0	<0.01	<0.01	
1	86.4	87.4	1.0	1.0	1.52	0.06	
2	87.4	88.4	1.0	1.0	<0.01	<0.01	
3	88.4	89.4	1.0	1.0	<0.01	<0.01	
4	89.4	90.4	1.0	1.0	0.32	0.01	
5	90.4	91.4	1.0	1.0	1.14	0.05	89.4 - 97.4, 8.0m @ 0.58% WO_3.
6	91.4	92.4	1.0	1.0	0.08	<0.01	
7	92.4	93.4	1.0	1.0	0.38	<0.01	NB This is in pgh and includes 2.0 metres of subgrade ore, and 2.0 metres of over 1% WO_3 ore.
8	93.4	94.4	1.0	1.0	0.61	0.01	
9	94.4	95.4	1.0	1.0	<0.01	<0.01	
2120	95.4	96.4	1.0	1.0	1.58	0.06	
1	96.4	97.4	1.0	1.0	0.51	0.04	
2	97.4	98.4	1.0	1.0	<0.01	<0.01	
3	98.4	99.4	1.0	1.0	<0.01	<0.01	
4	99.4	100.4	1.0	1.0	0.06	<0.01	
2125	100.4	101.4	1.0	1.0	1.44	0.07	
6	101.4	102.4	1.0	1.0	0.65	0.02	
7	102.4	103.4	1.0	1.0	1.26	0.06	100.4 - 109.4,
8	103.4	104.4	1.0	1.0	0.84	0.05	9m @ 1.27% WO_3
9	104.4	105.4	1.0	1.0	1.65	0.09	
2130	105.4	106.4	1.0	1.0	1.02	0.06	
1	106.4	107.4	1.0	1.0	0.57	0.03	
2	107.4	108.4	1.0	1.0	0.86	0.04	
3	108.4	109.4	1.0	1.0	3.15	0.16	
4	109.4	110.4	1.0	1.0	<0.01	<0.01	
5	142.4	143.4	1.0	1.0	0.42	<0.01	
6	143.4	144.4	1.0	1.0	2.32	0.09	142.4 - 146.4, 4.0m
7	144.4	145.4	1.0	1.0	30.50	1.15	@ 2.69% WO_3.
8	145.4	146.4	1.0	1.0	10.10	0.31	NB 144 - 146 large fracture
9	146.4	147.4	1.0	1.0	0.05	<0.01	containing coarse
2140	147.4	148.4	1.0	1.0	0.19	<0.01	scheelite.
1	148.4	149.4	1.0	1.0	0.23	<0.01	
2	149.4	150.4	1.0	1.0	<0.01	<0.01	
3	150.4	151.4	1.0	1.0	0.02	<0.01	
4	151.4	152.4	1.0	1.0	<0.01	<0.01	
5	152.4	153.4	1.0	1.0	0.09	<0.01	
6	153.4	154.4	1.0	1.0	0.05	<0.01	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No: BH 450/2

SAMPLE No:	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
7	154.4	155.4	1.0	1.0	1.48	0.09		
8	155.4	156.4	1.0	1.0	<0.01	<0.01		
9	170.4	171.4	1.0	1.0	0.01	<0.01		
2150	171.4	172.4	1.0	1.0	0.51	0.03		
2351	172.4	173.4	1.0	1.0	0.17	<0.01		
2352	173.4	174.4	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. BH 450/2

0.0 - 7.58 MARBLE

A fine grained grey - white calcite hornfels with some irregular bands of garnet. Some fine disseminated scheelite is present within this unit, but is not expected to reach ore grade. The marble is severely leached for the first 5 metres and some lost core occurs between 3 - 5 metres.

Bedding is 66^{o} LCA @ 5.85m.
76^{o} LCA @ 7.0m.

7.58 - 12.05 MINERALISED MARBLE

Similar to the unit above, but the marble has been largely replaced by pyroxene, and to a lesser extent garnet. The scheelite is finely disseminated in the pyroxene areas, but is not expected to reach ore grade.

Some leaching may be noted in the core @ 8.2 metres.

12.05 - 16.67 MARBLE

Same as above. The pyroxene content increases between 15.80 - 16.67 and some finely disseminated scheelite occurs in this area.

16.67 - 22.44 BANDED BIOTITE HORNFELS

A fine grained black - purple biotite hornfels, with minor pyroxene. The bands are disturbed and irregular and some minor podding is present.

22.44 - 24.22 APLITE

This unit is a typical fine grained pink aplite with various amounts of biotite hornfels between 23.81 - 24.22m.

24.22 - 39.19 BANDED BIOTITE PYROXENE HORNFELS

This unit grades into the Banded Biotite Hornfels described above. The unit is a fine grained grey - green to black - purple biotite pyroxene hornfels. The bands are irregular and have been disturbed, some minor podding is present throughout. Fault breccia occurs at 31.06m.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 450/2

39.19 - 49.52 PODDED BIOTITE PYROXENE HORNFELS

This unit grades into Banded Biotite Pyroxene Hornfels described above. The unit is a disturbed podded unit of biotite pyroxene hornfels, grey - green to black - purple in colour, with irregular shaped fragments and pods throughout. The larger pods are calcite rich, rimmed with garnet and pyroxene. Minor scheelite is associated with these pods. The last 0.4m of this unit becomes more pyroxene rich. A series of Aplite veins 2 - 3 cm thisk occur at 32.55, 40.20 and 44.80.

49.52 - 51.37 PYROXENE GARNET HORNFELS

This unit consists of a fine grained pink - green coloured pyroxene garnet hornfels. Garnet is more dominant than pyroxene in this unit. Scheelite content is erratic and occurs as large crystals. It is not expected to reach ore grade. Some leaching is noted in the core of this unit.

51.37 - 54.63 APLITE - QUARTZ

A fine grained pink coloured aplite with varying amounts of biotite. The last 70cms of this unit is quartz, which contains crystalline voids. The unit is completely barren of scheelite.

54.63 - 73.24 PYROXENE GARNET HORNFELS

This is a disturbed podded unit of pyroxene garnet hornfels. Pyroxene content in this unit is greater than the previous unit described above. Scheelite content is erratic and generally consists of large crystals. This unit is not expected to reach ore grade. The core is severely leached adjacent to the aplite.

73.24 - 76.04 MARBLE

A grey fine grained recrystalised marble. Crystalised calcite occurs between 73.24 - 74.12. This unit is completely barren of scheelite. Some remnant bedding can be noted in this unit.

Bedding is 52^{o} LCA @ 74.48m,
54^{o} LCA @ 75.73m.

76.04 - 84.10 PYROXENE GARNET HORNFELS

A fine grained pyroxene garnet hornfels. The unit consists of garnet with varying amounts of pyroxene in the ground mass.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 450/2

This unit contains good scheelite throughout, and is expected to reach ore grade between 76 - 83 metres.

84.10 - 87.70 BANDED SEQUENCE BIOTITE PYROXENE GARNET HORNFELS

This is an irregular unit with various rock types, which are as follows:-

84.10 - 85.52 Pyroxene Garnet Hornfels. This unit grades into the unit described above, pyroxene is more dominant, however, and scheelite is only minor.

85.52 - 86.46 Biotite Pyroxene Hornfels. A disturbed unit of grey green to brown purple biotite pyroxene hornfels.

86.46 - 87.14 Pyroxene Hornfels. A fine grained grey green pyroxene hornfels with some irregular shaped pods of calcite, rimmed by garnet.

87.14 - 87.70 Pyroxene Garnet Hornfels. This unit is similar to that described above. A scheelite vein 1cm thisk occurs at 87.16. This unit contains only minor scheelite.

87.70 - 88.33 FAULT ZONE

A zone of brecciated rock with thick calcite filling on the fault planes.

88.33 - 89.53 BIOTITE HORNFELS

A fine grained purple - brown biotite hornfels. A pyrrohatite pod occurs at 89.10.

89.52 - 98.00 BANDED PYROXENE GARNET HORNFELS

A fine grained brown - green unit with variable garnet content. Scheelite is finely disseminated in the garnet rich areas. Some remnant bedding can be noted in the first four metres of this unit.

Bedding is 35° LCA @ 91.0m.

Scheelite content increases in the vicinity of the fault described below.

98.0 - 100.47 FAULT ZONE

A brecciated biotite hornfels cemented by chlorite and calcite. A thick carbonate filled zone occurs along the fault plane between 98.86 - 99.30.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 450/2

100.47 - 109.62 PYROXENE GARNET HORNFELS

A fine grained pyroxene garnet hornfels with variable pyroxene and carbonate content. This unit is initially very disturbed in the vicinity of the fault. The unit contains finely disseminated scheelite throughout, and is expected to reach ore grade.

109.62 - 140.49 BIOTITE PYROXENE HORNFELS

A disturbed unit of biotite pyroxene hornfels, with some minor bands of marble between 113m - 115m. The marble bands are barren of any scheelite. Angular shaped pods some of which are carbonate rich, may be noted between 126m - 140m.

140.49 - 143.0 PODDED BIOTITE PYROXENE HORNFELS

A disturbed podded unit of biotite pyroxene hornfels, grey - green to purple - brown in colour, with irregular shaped fragments and pods throughout. The larger fragments tend to be calcite rich, often rimmed by garnet and pyroxene. This last 50cm of this unit becomes biotite rich.

143.0 - 155.50 PYROXENE GARNET HORNFELS

This unit is a disturbed podded unit of pyroxene garnet hornfels with an irregular band of biotite pyroxene hornfels between 149.30 - 152.23. Where the rock type is pyroxene garnet hornfels there are irregular amounts of scheelite as large crystals. A large fracture associated with some very large scheelite crystals occurs between 144.30 - 145.62. The grade obtained in this interval is not typical of the unit.

155.50 - 167.4 MARBLE

A fine grained grey - white recrystalised marble showing remnant bedding. This unit contains no garnet or pyroxene, and is devoid of any scheelite mineralisation.

Bedding is 62^{o} LCA @ 157.07m,
68^{o} LCA @ 163.23m,
56^{o} LCA @ 167.13m.

A major fracture filled with carbonate and chlorite 1cm thick occurs between 161.57 - 161.71.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 450/2

167.4 - 188 E.O.H. BANDED SEQUENCE. BIOTITE, PYROXENE, CALCITE, GARNET HORNFELS

A unit consisting of alternate bands of biotite, pyroxene, calcite and garnet hornfels. A garnet, calcite and biotite rich area occurs between 171.43 - 172.95, 172.95 - 177.67 and 178.20 - 180.4m. respectively. The garnet rich area contains moderate scheelite but is not expected to reach ore grade. Some leaching may be noted in the core of this unit.

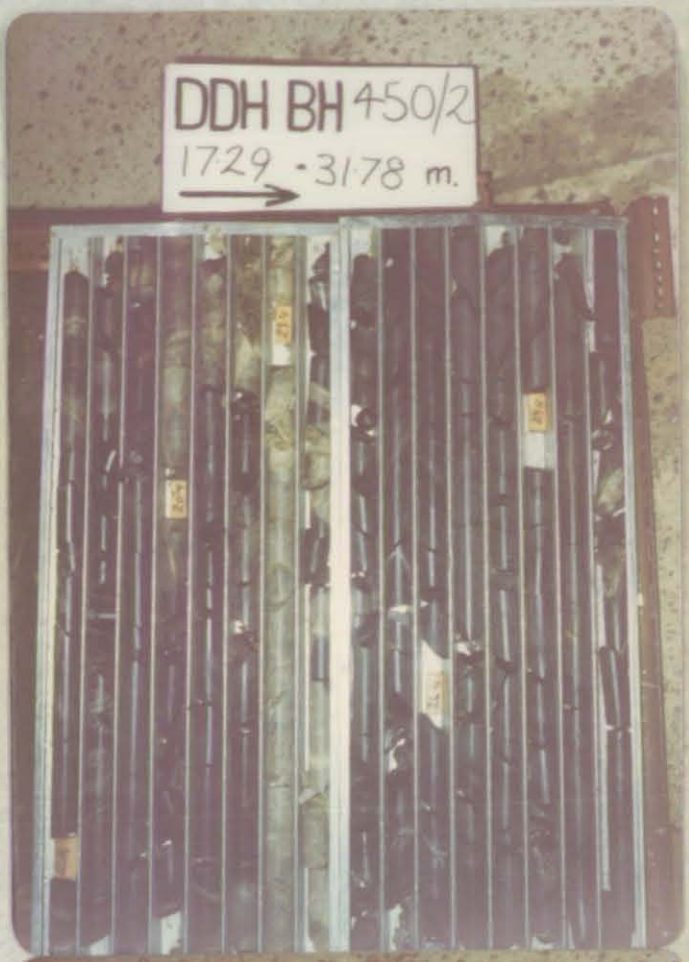
GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H.B 450/2

LAB.	K.I.S.		LAB. KIS Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 2435	<0.01	<0.01	BH 3143	<0.01		BH 3144	0.017		BH 3145	0.016		
BH 2445	0.01	<0.01	BH 3146	0.09		BH 3147	0.115		BH 3148	0.12		
BH 2085	<0.01	<0.01	BH 3149	<0.01		BH 3150	0.035		BH 3151	0.019		
BH 2095	0.05	<0.01	BH 3152	0.13		BH 3153	0.19		BH 3154	0.25		
BH 2105	0.82	0.07	BH 3155	0.85		BH 3156	0.91		BH 3157	0.87		
BH 2115	1.14	0.05	BH 3158	1.18		BH 3159	1.30		BH 3160	0.87		
BH 2125	1.44	0.07	BH 3161	1.49		BH 3162	1.52		BH 3163	1.50		
BH 2135	0.42	<0.01	BH 3164	0.23		BH 3165	0.44		BH 3166	0.43		
BH 2145	0.09	<0.01	BH 3167	0.13		BH 3168	0.170		BH 3169	0.16		


DDH BH 450/2
000 - 1729 m.


DDH BH 450/2
1729 - 3178 m.


DDH BH 450/2
3178 - 4672 m.


DDH BH 450/2
4672 - 5940 m.

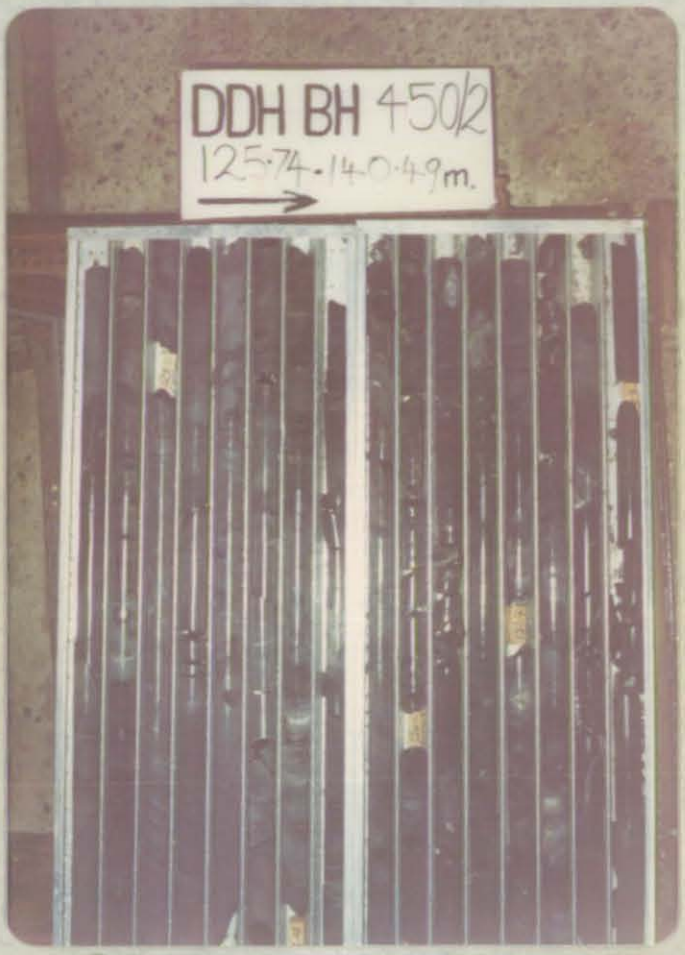

DDH BH 450/2
5940 - 7412 m.

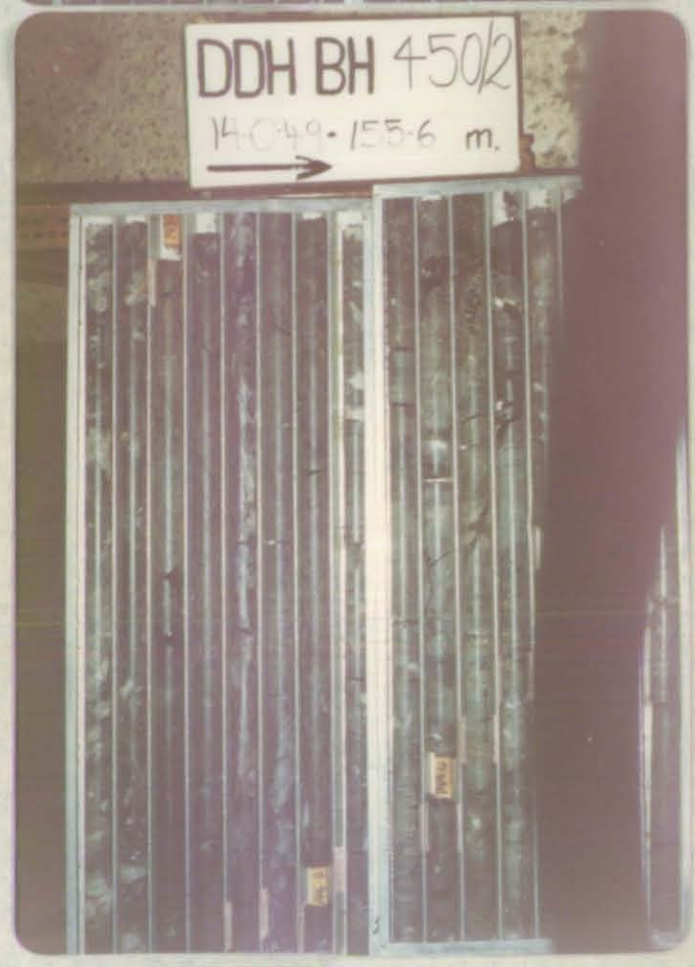

DDH BH 450/2
7412 - 8143 m.


DDH BH 450/2
8143 - 9635 m.

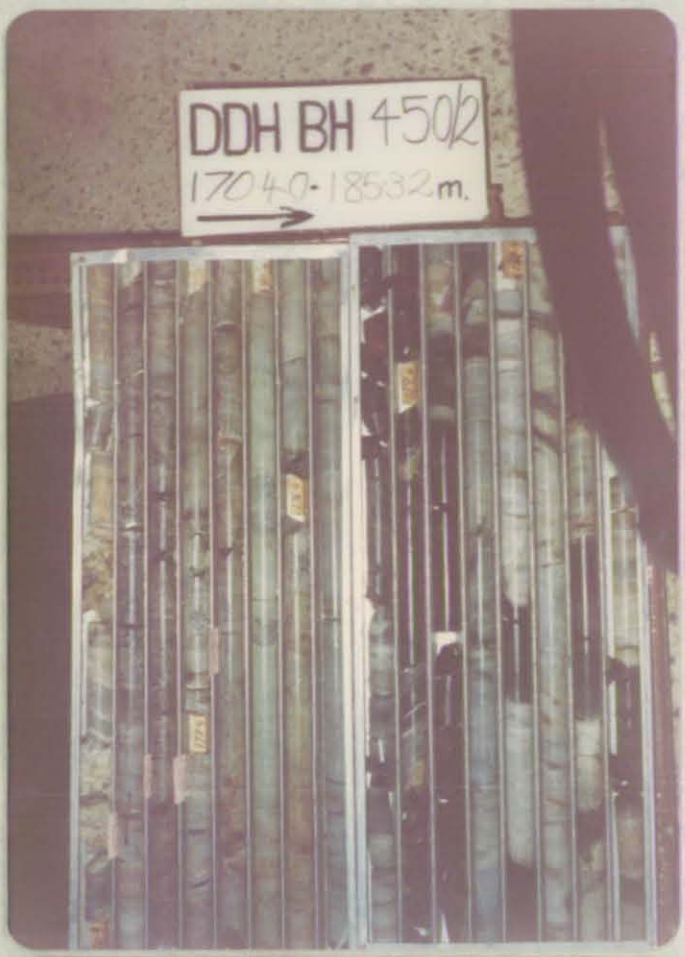

DDH BH 450/2
9635 - 11100 m.


DDH BH 450/2
111·0 - 125·74 m.


DDH BH 450/2
125·74 - 140·49 m.


DDH BH 450/2
140·49 - 155·6 m.


DDH BH 450/2
155·60 - 170·40m.


DDH BH 450k
1704.0 - 1853.2 m.


DDH BH 450k
1853.2 - 1880 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. B 450/1

PLANNING

Proposer: S.G. Brown — Depth: 120m

Location: L43 drive A lens BH.

Purpose of hole: To test B lens Fault Block at 10450 N

Co-ordinates: 10353 E 10450 N

Inclination: -58° Magnetic

Bearing: 090° Grid Target depth:

Target: E N

Approved by: M.C. Rogers Date: 20/11/75

SURVEY

Survey Co-ords: E N

Survey bearing: 88°13'45" Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 10 352.583 E 10 449.991 N

R.L. of collar: 1035.83 Inclination of hole: -56°42'02"

Picked up by : J. Cook Date: 11/12/75

SUMMARY

Logged by : S.G. Brown

Results:

11m - 14m 3m @ 0.37% WO_3

70m - 81m 11m @ 1.59% WO_3

86m - 94m 8m @ 1.02% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 3/12/75 Date terminated: 11/12/75

Casing: Size : NQ

Depth : 3m

Core: Size : BQ

Depth : 117.0

Wedge Runoff:

Wedge placed: NIL Depth:

Proposed by : Approved by:

Reason:

Extension: Nil.

Reason for termination: Entered quartzite. Final depth: 117.0

Condition of hole on completion:

Casing : 3m left

Cemented : No.

Bore hole survey: Multi shot to 117m

Water: Lost water below casing

Comments on drilling conditions: Moderate to good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 450/1

Survey method : Multishot camera

Final depth : 117.0m

Casing depth : 3m

Depth surveyed to : 117m

Date surveyed : 11/12/75

Surveyed by : R.B.

Checked by : R.B.

DEPTH (m)	Bearing		Inclination		True Vertical Depth (m)	Co-oridinates	
	Grid	Mag.	Read	Corrected		N	E
15.0	90°30'	62°30'	33°07'	-56°53'	12.60	3.60	77.28
30.0	92°00'	64°00'	32°00'	-58°00'	25.23	7.29	14.45
45.0	91°30'	63°30'	32°00'	-58°00'	36.06	10.84	21.58
60.0	91°00'	63°00'	32°52'	-57°08'	48.72	14.54	28.71
75.0	90°00'	62°00'	32°45'	-57°15'	61.30	18.32	35.94
90.0	90°00'	62°00'	32°30'	-57°30'	73.88	22.15	43.11
105.0	91°00'	63°00'	32°30'	-57°30'	86.57	25.82	50.20
117.0	90°00'	62°00'	32°15'	-57°45'	96.71	28.84	55.86

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No.B 450/1

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 17.2	ch/ch(m)/ banded bh	4	-	carbonate @ 6.07, 10.0, 15.16	63° @ 6.90 60° @ 6.57	83	57	Core lost between 0 - 5.20. Recovered core in this interval is severely leached and weathered. Wollastonite @ 8.87. Core severely weathered and leached in interval 14.10 - 14.94. Major fracture is filled with Carbonate @ 15.18
17.2 - 32.2	banded bh/ podded bph.	6	-	sulphide and chlorite @ 15.24, 23.87 26.83. Clay @ 24.42 quartz @ 30.10, 31.30	55° @ 28.03	97	54	bph is a disturbed unit and is badly broken between 15.90 -16.15 20.0 -20.20 24.42 -24.58 Core is leached at 25.15, 25.40, 25.48, 25.62, 25.74, Excellent Core recovery

FURTHER DATA & REMARKS

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

E

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. B.450/1

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
32.2 - 53.2	Podded bph/pgh	4	-	chlorite @ 35.97 carbonate @ 36.39, 45.04 chlorite and sulphide @ 42.74	-	99	80	Excellent core recovery. Core leached @ 40.83, 48.2, 48.47, 52.76, Broken and ground between 41.1 - 41.40
53.2 - 71.2	pgh/gh/ch/ pgh	4	-	chlorite @ 51.85, 61.70, 68.10. chlorite and carbonate @ 59.70	70° @ 69.37 58° @ 68.02	97	74	Excellent core recovery. Most joints in this interval contain chlorite.
71.2 - 89.2	pgh/banded bph/banded sequence	2	-	Chlorite and carbonate @ 77.13, 78.60 carbonate @ 82.80 chlorite and sulphide @ 85.35	68° @ 83.38 72° @ 86.17	97	79	Excellent core recovery Major fractures filled with carbonate @ 69.70, 72.94, 77.90
89.2 - 101.2	banded sequence/ pgh/bph/q	4	-	Carbonate and chlorite @ 94.66, 95.20, 96.90, 100.16, chlorite @ 98.35, 99.47	72° @ 91.17 68° @ 92.75	99	57	Fault @ 95.10 Fault fracture filled with carbonate and chlorite 1cm thick. Fault @ 98.66 Fault plane filled carbonate and chlorite .

plane

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. B 450/1

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
								Major fracture filled with carbonate and chlorite @ 97.70
101.2 - 117.0 E.O.H.	q	5	-	chlorite and sulphide @ 102.10, 104.35, 109.10, 116.65 carbonate @ 111.03 carbonate @ 106.90, 107.54	-	96	55	Excellent core recovery. Most joints in quartzite contain sulphide and chlorite

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. B 450/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 5.52	5.52	2.64	48
8.2	2.68	3.03	113
11.2	3.0	2.98	99
14.2	3.0	2.96	99
17.2	3.0	2.66	89
20.2	3.0	2.80	93
23.2	3.0	3.00	100
26.2	3.0	2.86	95
29.2	3.0	2.90	97
32.2	3.0	3.02	101
35.2	3.0	2.94	98
38.2	3.0	2.99	100
41.2	3.0	2.91	97
44.2	3.0	3.02	101
47.2	3.0	2.94	98
50.2	3.0	3.03	101
53.2	3.0	2.98	99
56.2	3.0	2.84	95
59.2	3.0	2.90	97
62.2	3.0	3.03	101
65.2	3.0	2.98	99
68.2	3.0	2.94	98
71.2	3.0	2.79	93
74.2	3.0	2.85	95
77.2	3.0	2.96	99
80.2	3.0	2.99	100
83.2	3.0	2.86	95
86.2	3.0	2.92	97
89.2	3.0	2.93	98
92.2	3.0	3.03	101
95.2	3.0	2.96	99
98.2	3.0	2.90	97
101.2	3.0	2.98	99
104.2	3.0	2.68	89
107.2	3.0	2.82	94
110.2	3.0	2.93	98
113.2	3.0	3.01	100
116.2	3.0	2.95	98
117.0	0.80	0.82	102
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 450/1

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
2029	10	11	1.0	1.0	0.07	<0.01		
2030	11	12	1.0	1.0	0.32	<0.01		
1	12	13	1.0	1.0	0.29	0.02	11m - 14m	3m @ 0.37% WO_3
2	13	14	1.0	1.0	0.50	0.03		
3	14	15	1.0	1.0	<0.01	<0.01		
4	15	16	1.0	1.0	0.33	0.01		
5	16	17	1.0	1.0	<0.01	<0.01		
6	52	53	1.0	1.0	<0.01	<0.01		
7	53	54	1.0	1.0	0.08	<0.01		
8	54	55	1.0	1.0	<0.01	<0.01		
9	55	56	1.0	1.0	0.11	<0.01		
40	56	57	1.0	1.0	0.28	<0.01		
1	57	58	1.0	1.0	0.16	<0.01		
2	58	59	1.0	1.0	<0.01	<0.01		
3	59	60	1.0	1.0	0.21	<0.01		
4	60	61	1.0	1.0	<0.01	<0.01		
BH 2045	61	62	1.0	1.0	0.01	<0.01		
6	62	63	1.0	1.0	<0.01	<0.01		
7	63	64	1.0	1.0	<0.01	<0.01		
8	64	65	1.0	1.0	0.22	<0.01		
9	65	66	1.0	1.0	0.74	0.04		
50	66	67	1.0	1.0	0.02	<0.01		
1	67	68	1.0	1.0	<0.01	<0.01		
2	68	69	1.0	1.0	<0.01	<0.01		
3	69	70	1.0	1.0	0.15	<0.01		
4	70	71	1.0	1.0	0.72	0.04		
5	71	72	1.0	1.0	0.94	0.07		
6	72	73	1.0	1.0	1.06	0.05		
7	73	74	1.0	1.0	1.37	0.07		
8	74	75	1.0	1.0	0.82	0.05		
9	75	76	1.0	1.0	1.19	0.05		
2060	76	77	1.0	1.0	1.82	0.09	70m - 81m	11m @ 1.59% WO_3
1	77	78	1.0	1.0	4.98	0.22		
2	78	79	1.0	1.0	3.07	0.17		
3	79	80	1.0	1.0	2.22	0.10		
4	80	81	1.0	1.0	0.31	<0.01		
5	81	82	1.0	1.0	<0.01	<0.01		
6	82	83	1.0	1.0	<0.01	<0.01		
7	83	84	1.0	1.0	0.42	<0.01		
8	84	85	1.0	1.0	0.23	<0.01		
9	85	86	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 450/1

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
70	86	87	1.0	1.0	0.76	0.03		
1	87	88	1.0	1.0	0.92	0.05		
2	88	89	1.0	1.0	0.24	<0.01		
3	89	90	1.0	1.0	2.85	0.14		
4	90	91	1.0	1.0	0.80	0.04	86m - 94m	8m @ 1.02% WO_3
BH 2075	91	92	1.0	1.0	1.29	0.07		
6	92	93	1.0	1.0	0.78	0.03		
7	93	94	1.0	1.0	0.54	0.02		
8	94	95	1.0	1.0	0.22	<0.01		
9	95	96	1.0	1.0	<0.01	<0.01		
BH 2080	96	97	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 450/1

0 - 10.40m — MARBLE

A fine grained grey white calcite hornfels showing well developed bedding. This unit is completely barren of scheelite.

Bedding is at 6.8m is 55° LCA.

10.40m - 16.20m — MINERALISED MARBLE

In this area the marble has been replaced to a large extent by pyroxene hornfels with lesser amounts of garnet also present in this unit.

Calcite is present both as irregular banded units of marble and also finely disseminated throughout the pyroxene rich skarn.

Between 14.2 - 14.6m the core is leached and some core loss is apparant.

The scheelite mineralisation is erratic and probably does not reach ore grade here.

16.20m - 28.30 — BANDED BIOTITE HORNFELS

A fine grained black purple biotite hornfels with minor amounts of pyroxene present in some of the bands. The bands are disturbed and irregular, some minor podding present.

Between 25.82 - 26.44m there is a small patch of marble which has been replaced by pyroxene and minor garnet

From 26.44 - 28.00m the core is spotted in appearance and resembles altered lower volcanics in hand specimens.

Between 21.31 - 23.14m a fine grained grey aplite is present.

28.30m - 47.46 — PODDED BIOTITE PYROXENE HORNFELS

A podded disturbed unit of biotite pyroxene hornfels grey green to purple brown in colour, with irregular shaped fragments and pods present throughout.

The fragments vary considerably in composition but the larger ones tend to be calcite rich. Some of the calcite pods have a high garnet content and often a narrow pyroxene rich rim within the ground mass.

The last 3 metres of this unit are much more pyroxene rich than the rest of the unit.

The unit is completely barren of scheelite.

47.46m - 64.75m — PYROXENE GARNET HORNFELS

This unit is a well podded disturbed unit of pyroxene garnet hornfels with irregular patches of

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 450/1

biotite pyroxene hornfels present as follows:

53.88 - 54.51 podded biotite pyroxene hornfels. Biotite dominant only minor pyroxene here.
60.10 - 60.50 podded biotite pyroxene hornfels.
60.97 - 62.85 biotite pyroxene hornfels with only minor podding present in this unit.

A large aplite dyke occurs between 48.65 and 52.71m with a small amount of pyroxene garnet hornfels between 49.91 - 50.77m. Where the rock type is pyroxene garnet hornfels there is irregular amounts of scheelite present usually as scattered large crystals.

Some leaching of the calcite pods is apparant adjacent to the aplite dyke.

64.75m - 66.08m GARNET SKARN

A brown unit consisting of an aggregate of small garnet crystals with minor amounts of pyroxene present throughout. Calcite is also present throughout.

Finely disseminated scheelite is present throughout this unit. (ore grade).

66.08m - 69.75m MARBLE

A fine grained grey recrystalised marble. This unit contains no garnet or pyroxene and is devoid of scheelite mineralisation.
Banding is at 77° LCA @ 69.4m.

69.75m - 84.85m PYROXENE GARNET SKARN

A fine grained garnet skarn consisting of large numbers of small garnet crystals with quite high amounts of pyroxene present in the ground mass.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 450/1

Some calcite is present throughout the groundmass.

Some ~~be~~ bedding is apparant over the first metre of this unit.

Below 80.06m the skarn is pyroxene rich and contains much lesser amounts of garnet.

Scheelite is present throughout this unit, probably in ore grade amounts between 69.75m and 80.06m. Below 80.06m there is only minor mineralisation.

84.85m - 86.66m BANDED BIOTITE PYROXENE HORNFELS

A finely banded unit of biotite pyroxene hornfels with minor garnet bands present in this unit.

Minor scheelite is present in the garnet bands.

Bedding is at 78° LCA.

86.66m - 94.10m BANDED SEQUENCE. BIOTITE, PYROXENE CALCITE GARNET HORNFELS.

In this unit the garnet bands are dominant and probably comprise up to 75% of the core.

A marble rich area occurs between 87.85 and 88.55m.

Good scheelite mineralisation is present in the garnet bands between 86.66m and 94.10m.

Bedding is at 75° LCA at 91.10m.

94.10m - 95.07m PYROXENE GARNET HORNFELS

A very disturbed and podded unit of pyroxene garnet hornfels in which the pyroxene is dominant.

Only minor mineralisation is present in this unit.

A calcite filled fault is present at 95.07m dip 27° LCA.

95.07m - 100.13m BIOTITE PYROXENE HORNFELS

This is an extremely disturbed grey green unit with minor biotite rich bands present throughout.

The core is banded parallel to the Boundary Fault direction.

This unit contains no scheelite mineralisation.

100.13m - 117.0m E.O.H. QUARTZITE

Typical grey brown spotted quartzite with minor bands of dark grey siltstones present throughout.

Pyrite is present on the joint planes and also as small aggregates associated with the siltstones.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B)450/1

LAB.	K.I.S.		LAB.	KIS Check		LAB.	AMDEL		LAB.	A.C.S.L.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 2030	0.32	<0.01	BH 3104	0.32		BH 3105	0.40		BH 3106	0.37		
BH 2040	0.28	<0.01	BH 3107	0.25		BH 3108	0.275		BH 3109	0.26		
BH 2050	0.02	<0.01	BH 3110	0.03		BH 3111	0.115		BH 3112	0.075		
BH 2060	1.82	0.09	BH 3113	2.24		BH 3114	1.90		BH 3115	1.75		
BH 2070	0.76	0.03	BH 3116	0.61		BH 3117	0.71		BH 3118	0.75		
BH 2080	< 0.01	<0.01	BH 3119	< 0.01		BH 3120	0.016		BH 3121	0.01		


DDH BH 450/1
60.27 - 74.97 m.


DDH BH 450/1
74.97 - 89.86 m.


DDH BH 450/1
89.86 - 104.44 m.


DDH BH 450/1
104.4 - 117.0 m.
EOH


DDH BH 450/1
0 00 - 17·02 m.


DDH BH 450/1
1708 - 31·20 m.


DDH BH 450/1
31·20 - 45·57 m.


DDH BH 450/1
45·57 - 60·27 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. Bold Head 440/1

PLANNING

Proposer: S.Grieve Brown — Depth: 21m

Location:

Purpose of hole: To test Nose of 'A' lens

Co-ordinates: 40340.0 E 10440.0 N
Inclination: -47° Magnetic:
Bearing 270° Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 7/3/77

SURVEY

Survey Co-ords: 265° 33' E N
Survey bearing: ~~89° 33'~~ Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 40 339.34 E 10 439.71 N
R.L. of Collar: 10 31.26 Inclination of Hole: -47° 04'
Picked up by: A. Grigulis Date: 1/4/77

SUMMARY

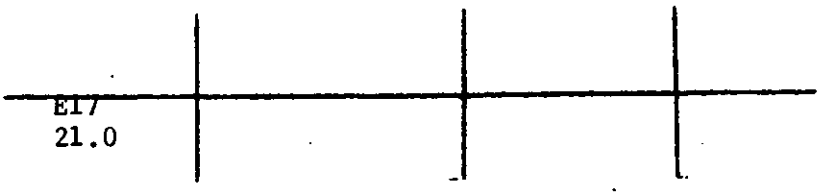
Logged by: S.G. Brown
Results: 1.0 - 6.0m 5.0m @ 0.48% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: Date terminated:

Casing: Size:
Depth:
Core: Size: EIT
Depth: 21.0



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

Extension: Nil
Reason for termination: Entered volcanics

Condition of hole on completion: Final depth: 21.0m
Casing: Nil
Cemented: No
Bore hole survey: Acid tube
Water: Nil

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BOLD HEAD 440/1

Survey method: Acid Tube
Final depth : 21.0m
Casing depth : Nil

Depth surveyed to: 21.0
Date surveyed:
Surveyed by : L.L.
Checked by : S.G.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
21.0	-	-	-56°	-49°			

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BOLD HEAD 440/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.80	2.80	2.38	85
2.80 - 5.10	2.30	2.25	98
5.10 - 6.00	0.90	0.86	96
6.00 - 8.70	2.70	2.78	103
8.70 - 11.70	3.00	3.07	102
11.70 - 14.80	3.10	3.03	98
14.80 - 18.40	3.60	3.53	98
18.40 - 21.00	2.60	2.46	95
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 440/1

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
B4558	0.0	1.0	1.0	0.56	0.05	0.01		
59	1.0	2.0	1.0	1.0	0.26	0.02		
60	2.0	3.0	1.0	1.0	0.74	0.06	1.0 - 6.0m	
61	3.0	4.0	1.0	1.0	0.35	0.03	5m @ 0.48% WO_3	
62	4.0	5.0	1.0	1.0	0.34	0.02		
63	5.0	6.0	1.0	1.0	0.71	0.05		
64	6.0	7.0	1.0	1.0	0.15	0.02		
65	7.00	8.00	1.0	1.0	0.35	0.01		
66	8.0	9.0	1.0	1.0	0.06	0.01		
67	9.0	10.0	1.0	1.0	0.16	0.02		
68	10.0	11.0	1.0	1.0	0.18	<0.01		
69	11.0	12.0	1.0	1.0	0.14	0.01		
70	12.0	13.0	1.0	1.0	0.25	0.02		
71	13.0	14.0	1.0	1.0	0.15	0.01		
72	14.0	15.0	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 440/1

0.00 - 14.42 PYROXENE GARNET HORNFELS

This is an irregular unit of pyroxene garnet hornfels. Initially the unit is garnet rich but below about 5.0m pyroxene becomes dominant while there is a large increase in the amount of calcite present in the core. Good grade scheelite is present in the first 6m.

The unit is disturbed and 'blotchy' in appearance but some remnant bedding is apparant at 8.45m at 20° LCA although the actual angle may not have much relationship to the original bedding angle in the marble.

This unit ends at the No.2 fault which in this core is not obvious there being only a amall 20cm zone of slightly more disturbed pgh.

14.42 - 21.00 VOLCANICS
E.O.H.

A dark brown purple unit of volcanics with well developed spotting present through out the core.

This unit is typical of the middle volcanics with a disturbed 'blotchy' appearance and no bedding.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 440/1

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4561	0.35	0.03	2799	0.34		2800	0.38		3520	0.39		
BH 4571	0.15	0.01	3521	0.11		3522	0.14		3523	0.14		


DDH BH 440/1
00.00 - 21.00 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 430/2

PLANNING

Proposer: S. Grieve Brown — Depth: 35m

Location: L47 drive

Purpose of hole: To test 'A' lens nose

Co-ordinates: 40353 E 10430 N
Inclination: -58°
Bearing 270° Grid
Target: E N
Approved by: M.C. ROGERS

Magnetic:
Target Depth:
Date: 7/3/77

SURVEY

Survey Co-ords: E N
Survey bearing: 272° 39' Grid
Surveyed in by:
Actual Co-ords: 40 352.59 E 10 429.79 N
R.L. of Collar: 103304
Picked up by: A. Grigulis

Magnetic:
Date:
Inclination of Hole: -57° 35'
Date: 18/3/77

SUMMARY

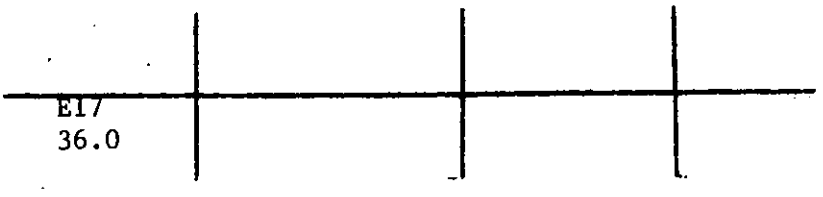
Logged by: S. Grieve Brown
Results: 1.0 - 5.0m 4m @ 0.61% WO_3
29.0 - 32.0 3m @ 0.39% WO_3

DRILLING

Driller/Contractor: Geopeko

Date commenced: Date terminated:

Casing: Size:
Depth:
Core: Size: E17
Depth: 36.0



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

Condition of hole on completion: Final depth: 36.0
Casing: Nil
Cemented: No
Bore hole survey: Acid tube
Water: Nil

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 430/2

Survey method: Acid tube
Final depth : 36.0
Casing depth : Nil

Depth surveyed to: 36.0m
Date surveyed: -
Surveyed by :L.L.
Checked by :S.G.B.

[illegible]th (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
36.0	-	-	-61°	-54°			

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 430/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.40	3.40	3.18	94
3.40 - 7.10	3.70	3.73	101
7.10 - 9.20	2.10	1.99	95
9.20 - 12.20	3.00	3.07	102
12.20 - 14.00	1.80	1.72	96
14.00 - 15.50	1.50	1.40	93
15.50 - 17.00	1.50	1.76	117
17.0 - 19.50	2.50	2.22	89
19.50 - 22.50	3.00	2.90	97
22.50 - 25.50	3.00	3.10	103
25.50 - 28.50	3.00	3.05	102
28.50 - 30.00	1.50	1.56	104
30.00 - 31.60	1.60	1.68	105
31.60 - 33.20	1.60	1.45	91
33.20 - 36.00	2.80	2.34	84
E.O.H.			

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 430/2

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
B4573	0.0	1.0	1.0	1.0	0.15	0.01		
74	1.0	2.0	1.0	1.0	0.47	0.03		
75	2.0	3.0	1.0	1.0	0.41	0.03	1.0 - 5.0m	
76	3.0	4.0	1.0	1.0	0.65	0.03	4m @ 0.61%	
77	4.0	5.0	1.0	1.0	0.91	0.03		
78	5.0	6.0	1.0	1.0	<0.01	<0.01		
79	23.0	24.0	1.0	1.0	<0.01	<0.01		
80	24.0	25.0	1.0	1.0	0.18	0.01		
81	25.0	26.0	1.0	1.0	0.16	0.01		
82	26.0	27.0	1.0	1.0	0.17	0.01		
83	27.0	28.0	1.0	1.0	0.30	0.02		
84	28.0	29.0	1.0	1.0	<0.01	<0.01		
85	29.0	30.0	1.0	1.0	0.30	0.02		
86	30.0	31.0	1.0	1.0	0.39	0.02	29.0 - 32.0	
87	31.0	32.0	1.0	1.0	0.47	0.03	3m @ 0.39%	
88	32.0	33.0	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 430/2

0.00 - 4.97 GARNET SKARN

A garnet pyroxene skarn with garnet as the dominant mineral while minor calcite is also present in the core. Remnant bedding is apparent through out, 25° LCA at 2.50m.

Good grade scheelite is present through out this unit. The unit grades to marble over a small 20cm wide zone.

4.97 - 24.48 MARBLE

Essentially this is a unit of finely bedded grey-black marble with some small zones of mineralised marble present between 9.23 - 11.34 and 13.60 - 15.65m, only minor amounts of this mineralised marble would reach ore grade and it has therfore not been split.
The bedding is well developed through out this unit as follows:
22° LCA at 7.50m
29° LCA at 10.10m
32° LCA at 12.20m
40° LCA at 15.40m
41° LCA at 18.0m
25° LCA at 21.30m
20° LCA at 24.40m

A couple of possible fault zones with large amounts of calcite in filling are apparent at 14.82 - 15.10m at about 31° LCA, and 15.67m - 15.76m at about 90° LCA?

24.48 - 29.02 MINERALISED MARBLE

This unit consists of alternating zones of barren grey-black marble and pyroxene calcite rich zones which contain scheelite mineralisation. Bedding is apparent in the marble units and is occasionally present in the more disturbed pyroxene rich areas.
Bedding is at 36° LCA at 26.96m.

29.02 - 33.11 PYROXENE GARNET SKARN

A well mineralised unit of pyroxene garent skarn occuring at the basal contact of the marble unit. This unit grades up into the mineralised marble above.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No: BH 430/2

33.11 - 36.0m
E.O.H.

BIOTITE HORNFELS

This unit which is dark black in colour and contains irregular streaks of lighter grey material appears to be a biotite hornfels unit although it does not have the same appearance that the normal biotite hornfels underlying the 'A' lens marble has.

next page also → ???


DDH BH 430/2
24.56 - 36.00 m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 430/2

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4574	0.47	0.03	3524	0.40		3525	0.50		3526	0.52		
BH 4583	0.30	0.02	3527	0.30		3528	0.38		3529	0.39		

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 430/1

PLANNING

Proposer: S. Grieve Brown — Depth: 28.0m

Location: L43 Drive 'A' lens

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

Co-ordinates: 40351.6 E 10430.0 N
Inclination: -31° Magnetic:
Bearing Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 1/2/77

SURVEY

Survey Co-ords: E N
Survey bearing: 93° 03' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 40 351.56 E 10 429.85 N
R.L. of Collar: 1033.28 Inclination of Hole: -30° 29'
Picked up by: A. Grigulis Date: 1/4/77

SUMMARY

Logged by: S. Grieve Brown
Results: 0.00 - 25.0m 25m @ 0.45% WO_3

DRILLING

Driller/Contractor: Geopeko

Date commenced: Date terminated:

Casing: Size: E17
Depth: 28.0
Core: Size:
Depth:

Wedge Runoff:
Wedge placed: Nil Depth:
Proposed by: Approved by:
Reason:
Extension: Nil
Reason for termination: Entered volcanics

Condition of hole on completion: Final depth: 28.0
Casing: Nil
Cemented: No
Bore hole survey: Acid tube
Water: No.

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 430.1

DEPTH ~~INTERVAL~~ (m)	INTERVAL ~~LENGTH~~ (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.40	2.4	2.41	100
2.40 - 3.70	1.3	1.30	100
3.70 - 6.70	3.0	2.99	100
6.70 - 9.50	2.8	2.83	101
9.50 - 12.50	3.0	2.92	97
12.50 - 15.50	3.0	3.06	102
15.50 - 18.50	3.0	2.98	99
18.50 - 21.50	3.0	3.01	100
21.50 - 24.40	2.9	2.80	97
24.40 - 27.0	2.6	2.65	102
27.0 - 28.0	1.0	0.91	91

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. ~~BH 430/1~~

Survey method: Acid tube
Final depth : 28.0m
Casing depth : -

Depth surveyed to: 28.0
Date surveyed: 16/3/77
Surveyed by : L.L.
Checked by : S.G.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected			
28.0	-	-	-38^{o}	-31^{o} 15'			

REMARKS:

GEOPEKO LIMITED - Bold Head

ASSAY DATA

D.D.H. No. 430/1

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
B4493	0.0	1.0	1.0	1.0	0.54	0.03		
94	1.0	2.0	1.0	1.0	0.02	<0.01		
95	2.0	3.0	1.0	1.0	0.69	0.05		
96	3.0	4.0	1.0	1.0	1.26	0.08		
97	4.0	5.0	1.0	1.0	0.22	0.01		
98	5.0	6.0	1.0	1.0	0.16	0.01		
99	6.0	7.0	1.0	1.0	0.04	<0.01		
4500	7.0	8.0	1.0	1.0	0.24	0.02		
501	8.0	9.0	1.0	1.0	0.76	0.05		
2	9.0	10.0	1.0	1.0	0.40	0.02		
3	10.0	11.0	1.0	1.0	0.17	0.01		
4	11.0	12.0	1.0	1.0	0.22	0.02		
5	12.0	13.0	1.0	1.0	0.94	0.08	0.00 - 25.0	
6	13.0	14.0	1.0	1.0	0.88	0.07	25m @ 0.45% WO_3	
7	14.0	15.0	1.0	1.0	0.12	0.01		
8	15.0	16.0	1.0	1.0	0.69	0.04		
9	16.0	17.0	1.0	1.0	0.02	<0.01		
10	17.0	18.0	1.0	1.0	0.21	0.01		
11	18.0	19.0	1.0	1.0	0.29	0.02		
12	19.0	20.0	1.0	1.0	0.66	0.05		
13	20.0	21.0	1.0	1.0	0.31	0.03		
14	21.0	22.0	1.0	1.0	0.33	0.02		
15	22.0	23.0	1.0	1.0	0.25	0.02		
16	23.0	24.0	1.0	1.0	1.34	0.08		
17	24.0	25.0	1.0	1.0	0.38	0.02		
18	25.0	26.0	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH430/1

0.00 - 26.28m

DISTURBED PYROXENE GARNET HORNFELS.

This is a disturbed brown andradite garnet skarn with lesser amounts of pyroxene and calcite present throughout.

The actual content of garnet, pyroxene and calcite varies throughout this unit but in the main the garnet remains dominant.

Scheelite is present throughout both as finely disseminated crystals and also as larger grains.

Some bedding is apparent in the core:
14° LCA at 21.0m

A large number of faults and fractures are present as follows:
3.35m a 4cm wide calcite filled fracture at 25° LCA.
12.03m a small calcite and chlorite filled fracture at 17° LCA.
14.52m a small calcite filled joint at 32° LCA.
14.54m a small calcite filled joint at 18° LCA.
16.31m a calcite and chlorite filled fracture at 7° LCA.
16.77m a calcite and chlorite filled joint at 41° LCA.
17.13m a small calcite and chlorite filled fault at 27° LCA.
19.88m a small calcite and chlorite filled joint at 27° LCA.

The last metre of this unit seems to be more broken than normal but is still present as quite large pieces.

Below about 25.7m the core is very pyroxene rich and is almost barren of scheelite mineralisation.

This unit terminates in a very narrow chlorite rich fault zone, the No.2 fault.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH430/1

26.28 - 28.0m EOH	MIDDLE VOLCANICS
	This is a dark brown purple coloured rock type with some minor spots present in it. It appears more of the biotite hornfels type of rock type but the joints have chlorite present on them.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 430/1

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4493	0.54	0.03	2775	0.66		2776	0.68		2777	0.58		
BH 4504	0.22	0.02	2778	0.18		2779	0.22		2780	0.22		
BH 4514	0.33	0.02	2781	0.32		2782	0.43		2783	0.41		


DDH BH 430/1
0000 - 24.91 m.


DDH BH 430/1
24.91 - 28.00m.
EOH

GEOPEKO DIVISION - King Island

LOG OF D.D.H. No. BH 425/13

PLANNING

Proposer: J. M. Clark Depth: 5

Location: R40 Drive

Purpose of Hole: To find Western Fault

Co-ords: 40278 E 10425 N

Inclination: Horizontal

Bearing: 090 °Grid °Mag

Target: E N

Depth:

Approved by: Date:

SURVEY

Survey Co-ords: E N

Surveyed Bearing: 268° 15' °Grid °Mag

Surveyed in by: Date

Actual Co-ords: 40277.6 E 10423.1 N

R.L. of Collar: 942.8

Inclination of Hole: Level

Picked up By: B. Lennon Date 4-8-1978

SUMMARY

Logged By: J. M. Clark Date

Results: 4-7 m, 3 m at 0.99% WO_3

DRILLING

Date Commenced: 2-8-1978 Date Terminated 7-8-1978

Driller/Contractor K.I.S.

Casing:	Size :				
	Depth :				
Core:	Size :	E17			
	Depth :	17.30			

Wedge Runoff:

Wedge placed: Depth

Proposed by: Approved by

Reason

Extension:

Final Depth: 17.30

Reason for Termination: In Adamellite

Condition of hole on completion:

Casing;

Cemented:

Bore hole survey: Not surveyed

Water:

Comments on Drilling Conditions: Generally good.

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 425/13

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6621	3	4	1.0	1.0	<0.01	<0.01		
22	4	5	"	"	1.12	0.03		
23	5	6	"	"	0.81	0.02		
24	6	7	"	"	1.05	0.05		
25	7	8	"	"	<0.01	0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/13

0.00 - 4.40 m

BIOTITE - PYROXENE HORNFELS

Light and dark green pyroxene hornfels is interbedded with purplish brown biotite hornfels.

The beginning of the hole is on the upper boundary of B lens garnet hornfels. There are small orange iron stained calcite veins through this section. Rubbly core is present at 4.40 m.

Bedding is 28° to the core axis.

Fractures / m = 20
Recovery = 99%

4.40 - 5.50 m

GARNET HORNFELS

Dark brown andradite garnet hornfels with smaller amounts of calcite and pyroxene. Scheelite is present as thickly disseminated fine grains concentrated in lengths of core up to 15cm long. Faint bedding planes appear to be at 28° to the core axis.

Fractures / m = 11
Recovery = 150

5.50 - 11.20 m

BIOTITE - PYROXENE HORNFELS

Green pyroxene hornfels is interbedded with brown biotite hornfels. Much of the core has a yellowish brown ironstaining. Minor grossular is present in pyroxene hornfels from 5.5 - 6.5 m with minor scheelite. Short sections of core are very rubbly possibly due to excessive water flow from the near by adamellite.

Bedding ranges from 30° to 45° to the core axis.

Fractures / m = 72°
Recovery = 99%

11.20 - 17.30 m

ADAMELLITE

Medium grained adamellite with abundant mafic minerals (biotite with minor hornblende). Large phenocrysts are not present but grainsize becomes slightly coarser down the hole. The presence of very light green epidote and minor ironstaining gives the core a weathered appearance.

Fractures / m = 10
Recovery = 99%

EOH 17.30 m.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 025/13

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	
6622	1.12	0.03	8168	1.06	(0.01	8169	1.38		8170	1.38		


DDH D 425/13
E.O.H
0.00 — 17.30 m


DDH BH 425/13
0.00 – 17.30 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 425/12

PLANNING

Proposer: J. M. Clark — Depth: 120

Location: R40 drive.

Purpose of hole: To test C_1, C_2 lenses

Co-ordinates: 40289 E 10425 N

Inclination: -58° — Magnetic:

Bearing: 90° Grid — Target depth:

Target: E N

Approved by: — Date:

SURVEY

Survey Co-ords: E N

Survey bearing 96 Grid — Magnetic:

Surveyed in by: — Date:

Actual Co-ords: 40289.0 E 10422.5 N

R.L. of collar: 941.3 — Inclination of hole: -57.7°

Picked up by: B. Lennon — Date: 29-4-78

SUMMARY

Logged by: J. M. Clark

Results: 76-80m, 4m @ 0.79% WO_3, 0.03% Mo.

DRILLING

Driller/Contractor: A.D.D.

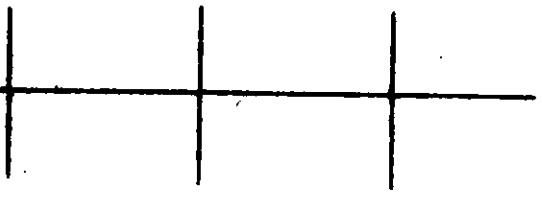
Date Commenced: 26-4-78 — Date Terminated: 12-5-78

Casing: Size :

Depth : 1 m

Core: Size : 46TT

Depth : 112.1m



Wedge Runoff:

Wedge Placed: — Depth:

Proposed by: — Approved by:

Reason:

Extension:

Final depth: 112.1 m

Reason for termination:

Condition of hole on completion:

Casing:

Cemented:

Bore hole survey:

Water:

Comments on drilling conditions: Badly broken banded footwall beds.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 425/12

Survey method: Singleshot Camera
Final depth: 112.1 m
Casing depth: 1.0 m

Depth surveyed to: 75.0 m
Date surveyed: 29-5-78
Surveyed by: A. Younger
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		S	E
13	96.5	68.5	32	-58	37.31	2.64	23.17
44							
75	96.5	68.5	28	-62	97.44	6.26	54.94
112.1							

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/12

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.6	3.6	2.4	67
- 5.7	2.1	2.1	100
- 8.7	3.0	2.95	98
- 11.7	"	2.95	98
- 14.7	"	2.95	98
- 17.7	"	2.95	98
- 20.7	"	2.92	97
- 23.7	"	2.85	95
- 26.7	"	2.95	98
- 29.7	"	2.97	99
- 32.7	"	2.95	98
- 35.7	"	2.95	98
- 38.7	"	2.92	97
- 41.7	"	2.92	97
- 44.7	"	2.92	97
- 47.7	"	3.0	100
- 50.7	"	3.0	100
- 53.7	"	2.95	98
- 55.7	2.0	2.0	100
- 58.7	3.0	2.95	98
- 61.7	"	2.0	100
- 64.7	"	2.95	98
- 67.7	"	2.85	95
- 69.7	2.0	1.98	99
- 71.7	2.0	1.98	99
- 74.7	3.0	2.90	97
- 79.7	"	2.95	98
- 80.7	"	2.95	98
- 83.7	"	2.95	98
- 86.7	"	2.98	99
- 88.7	2.0	1.95	97
- 92.9	4.2	4.2	100
- 95.9	3.0	2.90	97
- 98.7	2.8	2.65	98
- 100.7	2.0	1.70	85
- 103.7	3.0	2.40	80
- 106.7	3.0	2.95	98
- 108.7	1.4	1.35	96
- 109.6	1.5	1.5	100
- 110.1	0.5	0.5	100
- 112.1	2.0	1.93	97

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 425/12

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6331	2	3	1.0	1.0	0.42	0.02		
32	3	4	"	"	0.92	0.04		
33	4	5	"	"	0.26	0.03		
34	5	6	"	"	0.04	0.01		
35	6	7	"	"	0.50	0.03		
36	7	8	"	"	<0.01	<0.01		
BH 6337	60	61	"	"	<0.01	<0.01		
38	61	62	"	"	<0.01	<0.01		
39	62	63	"	"	<0.01	0.02		
40	63	64	"	"	<0.01	<0.01		
41	64	65	"	"	<0.01	<0.01		
42	65	66	"	"	<0.01	<0.01		
43	66	67	"	"	0.01	0.01		
44	67	68	"	"	<0.01	<0.01		
45	68	69	"	"	0.04	<0.01		
46	69	70	"	"	0.12	0.01		
47	70	71	"	"	0.13	<0.01		
48	71	72	"	"	0.03	<0.01		
49	72	73	"	"	0.25	0.02		
50	73	74	"	"	0.05	<0.01		
51	74	75	"	"	0.12	0.01		
52	75	76	"	"	0.05	<0.01		
53	76	77	"	"	0.61	0.03		
54	77	78	"	"	0.98	0.03		
55	78	79	"	"	1.06	0.03		
56	79	80	"	"	0.52	0.01		
57	80	81	"	"	<0.01	0.01		
58	81	82	"	"	<0.01	<0.01		
59	82	83	"	"	<0.01	0.01		
60	83	84	"	"	0.05	<0.01		
61	84	85	"	"	0.54	0.01		
62	85	86	"	"	0.02	0.01		
63	86	87	"	"	0.06	0.01		
64	87	88	"	"	<0.01	0.01		
65	101	102	"	"	0.20	0.02		
66	102	103	"	"	0.40	0.01		
67	103	104	"	"	<0.01	0.02		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/12

0.00 - 20.70 m

MARBLE

Grey to white fine grained marble, with white calcite veinlets throughout.

The beginning of the unit (0.0 - 2.3m) consists of broken marble, and only 55% recovery has been obtained.

2.3 - 6.7 m. Pyroxene hornfels with short lengths of marble. Broken and weathered core is present from 3.3 - 4.1 m. Fine grained disseminated scheelite is present in pyroxene rich sections of core.

13.5 - 14.4 m. Minor scheelite in pyroxene veined marble.

At 14.7 m bedding is 65° to core axis.

Fractures / M = 3.

20.70 - 60.00 m

BIOTITE - PYROXENE HORNFELS

Purplish brown biotite hornfels with lesser amounts of light green pyroxene hornfels.

20.7 - 25.0 m. Small, angular, very light brown rock fragments are abundant in a matrix of biotite hornfels.

28.7 m. Minor ironstaining along some joints.

33.6 - 34.1 m. Minor greenish brown greywacke.

37.4 - 38.2 m. Short intervals of broken core.

47.4 - 47.75 m. Fine grained aplite.

Pyroxene hornfels becomes more abundant below 43 m and small rock and calcite fragments are also irregularly present.

Depth	Bedding / CA
27.5	57°
36.5	52°
42.0	56°

Fractures / M = 7.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/12

60.00 - 62.10 m

MARBLE

An impure marble. Calcite fragments rimmed by grossular (slightly weathered) are set in a dirty marble matrix.

Pyroxene is present within calcite fragments, as fine grained aggregates within the matrix.

Mildly broken and weathered core is present at the beginning of this unit.

Minor sparsely disseminated scheelite is present from 61.7 - 61.85 m.

Fractures / M = 4.

62.10 - 63.70 m

BIOTITE HORNFELS

Purplish brown biotite hornfels with lesser amounts of pyroxene hornfels. Calcite veinlets are present throughout the core and the base of this unit is very weathered and broken.

Fractures / M = 720.

63.70 - 79.75 m

PYROXENE - GARNET HORNFELS

Irregularly shaped calcite fragments are present in a matrix of fine grained pyroxene and grossular. Fragments do not have the distinct grossular rimming that is present in other parts of this unit.

63.7 - 75.8 m. Sparsely disseminated fine to coarse grained scheelite.

75.8 - 79.75 m. Thickly disseminated fine grained scheelite.

Fractures / M = 3.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/12

79.75 - 102.80 m

BANDED FOOTWALL BEDS

Interbedded pyroxene hornfels, garnet hornfels, biotite hornfels and, increasing towards the end of the unit, marble. The core is mildly to intensely weathered and, in places very broken.

90.7 - 91.1 m. Broken core.

93.8 - 96.2 m. Broken and weathered core (usually marble) with short lengths of relatively unbroken core.

100.3 - 101.7 m. Very broken core, predominantly biotite hornfels.

Some small garnet hornfels beds contain scheelite. The most frequent occurrences are between 83.7 - 84.3 m and 101.7 - 102.8 m.

Depth	Bedding / CA
80.5	Subparallel
82.0	12°
84.0	23°
91.4	55°
96.5	55°
102.3	66°

Fractures / M > 20

102.80 - 106.80 m

BIOTITE - PYROXENE HORNFELS

Finely bedded brown and grey biotite hornfels with small beds of pyroxene hornfels.

Bedding is 62° to core axis.
Fractures / M = 6.

106.80 - 112.1 m

ADAMELLITE

Coarse grained adamellite containing fine grained mafic - rich variety from 106.3 - 107.8 m and 110.1 - 112.1 m. No scheelite is present.

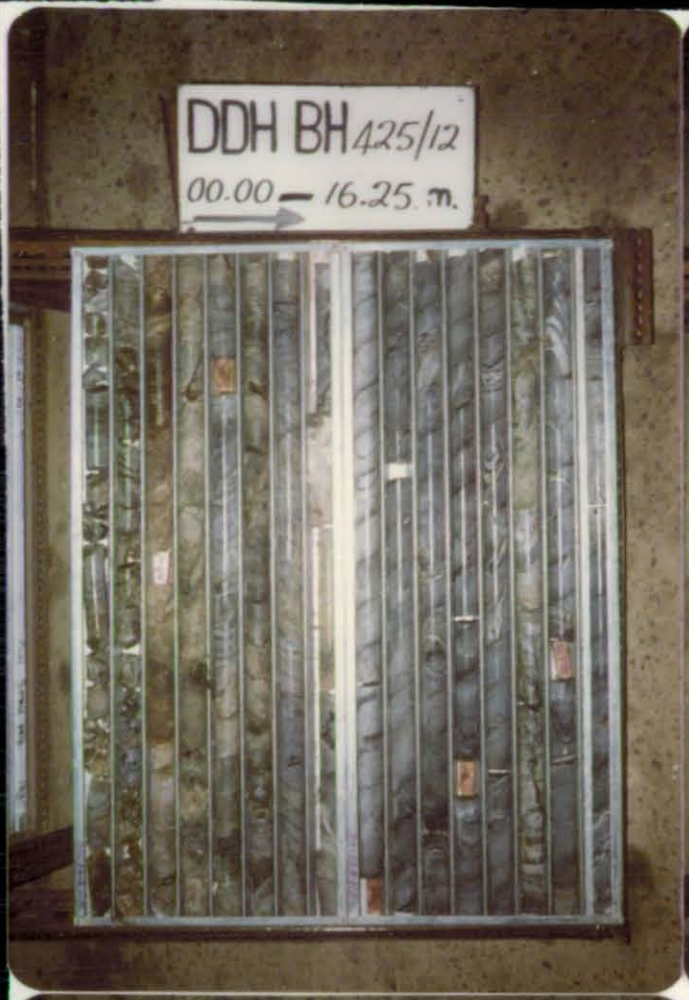
EOH 112.1 m.

GEOLOGY - KING ISLAND SCHEELITE

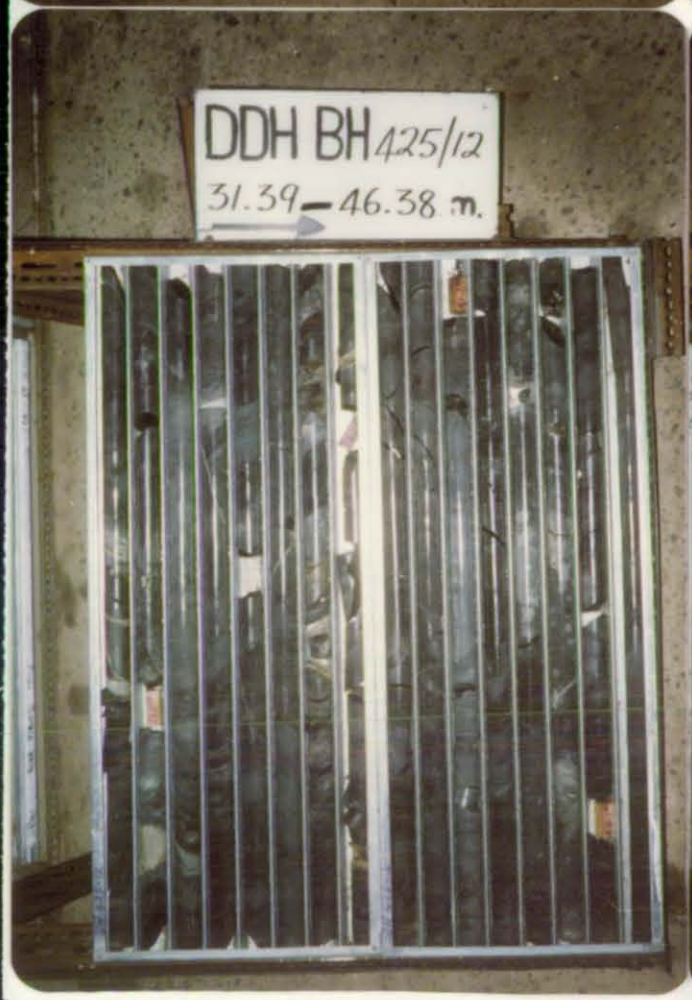
CHECK ASSAY DATA

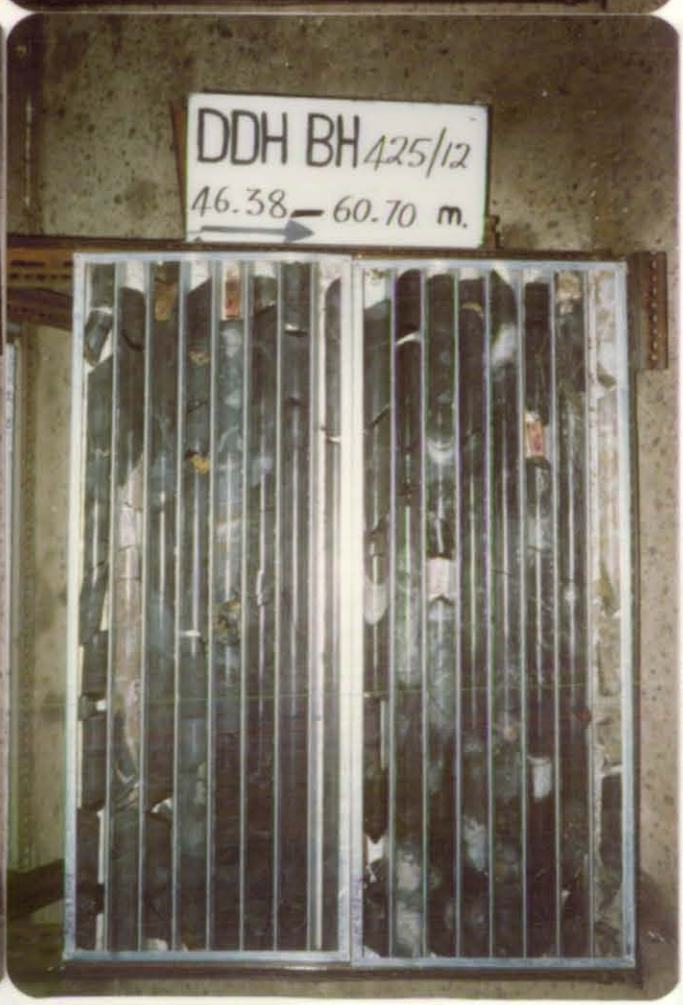
D.D.H. No. BH 425/12

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	
6332	0.92	0.04	8111	1.00	0.03	8112	1.11		8113	1.02		
6349	0.25	0.02	8114	0.35	0.01	8115	0.345		8116	0.46		
6361	0.54	0.01	8117	0.74	<0.01	8118	0.800		8119	0.65		


DDH BH 425/12
00.00 — 16.25 m.


DDH BH 425/12
16.25 — 31.39 m.


DDH BH 425/12
31.39 — 46.38 m.


DDH BH 425/12
46.38 — 60.70 m.


DDH BH 425/12
60.70 — 75.76 m.


DDH BH 425/12
75.76 — 90.90 m.


DDH BH 425/12
90.90 — 105.72 m.


DDH BH 425/12
105.72 — 112.10 m.
E.O.H

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 425/11

PLANNING

Proposer: A. Younger — Depth: 90

Location: R40 Drive

Purpose of hole: To test C_1 West, C_2 West

Co-ordinates: 40291.5 E 10425 N

Inclination: -76 — Magnetic:

Bearing: 090 Grid — Target depth:

Target: E N

Approved by: — Date:

SURVEY

Survey Co-ords: E N

Survey bearing 086 Grid — Magnetic:

Surveyed in by: — Date:

Actual Co-ords: 40288.52 E 10422.56 N

R.L. of collar: 941.4 — Inclination of hole: -76

Picked up by: B. Lennon — Date: 12-4-78

SUMMARY

Logged by: J. M. Clark

Results: No economic intersection.

DRILLING

Driller/Contractor: A.D.D.

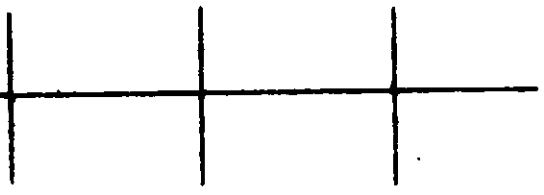
Date Commenced: — Date Terminated: 26-4-78

Casing: Size : BQ

Depth : 1m

Core: Size : 46TT

Depth : 74.10m



Wedge Runoff:

Wedge Placed: — Depth:

Proposed by: — Approved by:

Reason:

Extension:

Final depth: 74.10m

Reason for termination: Gear stuck down hole, and reached adamellite.

Condition of hole on completion:

Casing: Barrel and 2 rods stuck down bottom of hole

Cemented:

Bore hole survey:

Water:

Comments on drilling conditions: Good except for last 3m of granite which consisted of clay and crumbly rock.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 425/11

Survey method: Singleshot
Final depth: 74.10 m
Casing depth: 1.0 m

Depth surveyed to: 5.0 m
Date surveyed: 1.6.78
Surveyed by: A. Younger
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m)	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		N	E
5	87	59		-76			
74.10					71.90	0.94	17.90
Hole caved in. Could not survey.							

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/11

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.20	3.2	2.60	80
- 6.00	2.8	2.61	93
- 9.00	3.0	2.98	99
- 12.00	3.0	2.98	99
- 15.00	3.0	2.98	99
- 18.00	3.0	2.98	99
- 21.00	3.0	2.95	98
- 25.00	4.0	2.98	99
- 28.00	3.0	2.98	99
- 30.00	2.0	1.99	99
- 32.00	2.0	2.0	100
- 34.00	2.0	1.99	99
- 37.00	3.0	2.90	97
- 39.00	2.0	2.00	100
- 41.00	2.0	2.0	100
- 44.00	3.0	2.95	98
- 48.00	4.0	4.0	100
- 50.00	2.0	2.0	100
- 53.0	3.0	2.96	98
- 56.0	3.0	2.96	98
- 58.0	2.0	2.96	98
- 63.0	5.0	4.90	98
- 65.0	2.0	1.98	99
- 68.0	3.0	2.95	98
- 71.0	3.0	2.95	98
- 74.0	3.0	2.95	98
- 74.1	0.10	0.10	100

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 425/11

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6293	1	2	1.0	1.0	0.09	0.01		
94	2	3	"	"	0.24	0.01		
95	3	4	"	"	0.85	0.04		
96	4	5	"	"	0.11	0.01		
97	5	6	"	"	0.04	0.01		
98	6	7	"	"	<0.01	<0.01		
99	7	8	"	"	0.01	0.01		
300	8	9	"	"	<0.01	<0.01		
301	9	10	"	"	<0.01	<0.01		
BH 6302	48	49	"	"	<0.01	<0.01		
3	49	50	"	"	<0.01	<0.01		
4	50	51	"	"	0.07	0.01		
5	51	52	"	"	0.26	0.01		
6	52	53	"	"	0.06	0.01		
7	53	54	"	"	0.31	0.02		
8	54	55	"	"	0.18	0.01		
9	55	56	"	"	0.14	0.01		
10	56	57	"	"	0.27	0.01		
11	57	58	"	"	0.19	0.01		
12	58	59	"	"	<0.01	<0.01		
13	59	60	"	"	<0.01	<0.01		
14	60	61	"	"	<0.01	<0.01		
15	61	62	"	"	0.13	<0.01		
16	62	63	"	"	0.24	0.01		
17	63	64	"	"	0.17	0.01		
18	64	65	"	"	0.20	0.01		
19	65	66	"	"	<0.01	<0.01		
20	66	67	"	"	0.04	<0.01		
21	67	68	"	"	0.02	<0.01		
22	68	69	"	"	0.08	<0.01		
23	69	70	"	"	0.43	0.03		
24	70	71	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/11

0.00 - 19.10 m

MARBLE

Grey, fine to medium grained marble, which in places is well banded or has been disturbed by later calcite veining and pyroxene and epidote growth.

1.5 - 4.2m. Some broken core in this section together with many iron-oxide veinlets and coatings and small clay lined fractures. Short lengths of core containing sparsely disseminated scheelite are present.

4.2 - 6.0 m. Grey and green marble (some soft) containing short lengths with sparsely disseminated scheelite.

12.0 - 14.0 m. Pyroxene-rich marble containing very sparsely disseminated marble.

18.6 - 19.0 m. Minor iron-oxide staining of fractures.

Depth	Banding / CA
6.1m	65^{o}
11.1m	80^{o}

Fractures / m = 5.

19.10 - 51.00 m

BIOTITE - PYROXENE HORNFELS

Purplish brown biotite hornfels interbedded with lesser amounts of green pyroxene hornfels. Narrow marble beds with minor grossular pyroxene reaction rims are occasionally present.

19.1 - 24.0 m. Biotite hornfels with abundant angular grey (actinolite hornfels?) rock fragments. Only minor amounts of pyroxene hornfels are present.

29.7 m. Pyroxene bed contains grossular and minor scheelite. It is rimmed by grey actinolite hornfels.

37.0 - 37.1 m. Broken core.

44.0 - 37.0 m. Minor iron-oxide staining along some fractures (freq. approx. 1/m).

48.6 m. Aplite vein.

48.9 - 51.0 m. Podded biotite/pyroxene hornfels. Large calcite pods, some rimmed by grossular are present in a matrix of biotite and pyroxene hornfels. Minor, very sparsely disseminated scheelite is present in this unit.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/11

Depth	Bedding / CA
24.9	65
29.7	65
35.5	65
38.2	75
47.9	68

Fractures / M = 5

51.00 - 69.80 m

PYROXENE - GARNET HORNFELS

Irregularly shaped calcite fragments rimmed by grossular are present in a matrix of pyroxene and grossular. The fragments are less abundant than usual.

Scheelite is very sparsely disseminated throughout and is also concentrated in lengths of core up to 10 cm long.

56.5 - 57.0 m. Soft calcite along some fractures, and one pod also contains soft calcite.

59.0 - 59.5 m. Broken clayey core, most of which has an overall light yellowish brown colour.

68.8 - 69.8 m. Pyroxene hornfels containing minor calcite and grossular, but abundant fine to medium grained disseminated scheelite.

Fractures / M = 7.

69.80 - 74.10 m

ADAMELLITE

Mildly oxidized coarse grained adamellite, with typical large pink feldspar crystals.

72.5 - 74.1 m. Some of core has completely crumbled and there are short lengths consisting of predomiantly clay. Barrel and 6 rods were abandoned in the hole.

Fractures / M = 7 (good core).

EOH 74.10 m.

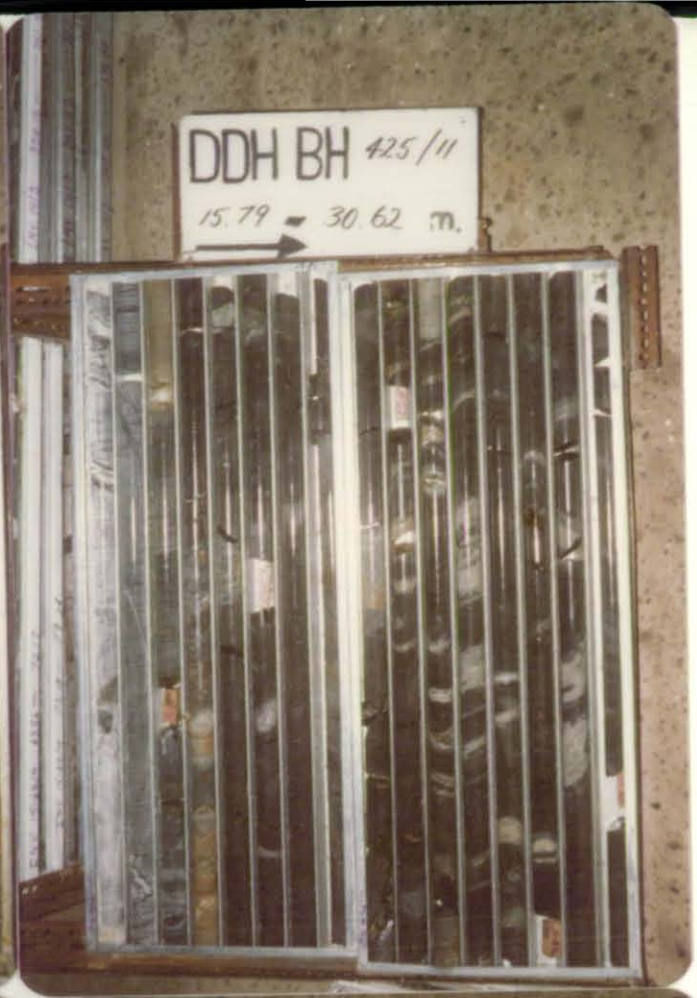
GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 425/11

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	
6294	0.24	0.01	8099	0.41	<0.01	8100	0.440		8101	0.38		
6305	0.26	0.01	8102	0.37	<0.01	8103	0.390		8104	0.38		
6316	0.24	0.01	8105	0.36	<0.01	8106	0.300		8107	0.27		
6323	0.43	0.03	8108	0.84	0.01	8109	0.495		8110	0.46		


DDH BH 425/11
00.00 - 15.79 m.


DDH BH 425/11
15.79 - 30.62 m.


DDH BH 425/11
30.62 - 45.45 m.


DDH BH 425/11
45.45 - 60.16 m.


DDH BH 425/11
60.16 - 79.10 m.
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 425/10

PLANNING

Proposer: G. Brown **Depth:** 100

Location: B Fault Block Q54/42 Drive

Purpose of hole: Test C_1, C_2 lens

Co-ordinates: 40389 E 10425 N

Inclination: -78.5° **Magnetic:**

Bearing: 090 **Grid** **Target depth:**

Target: E N

Approved by: M.C.R. **Date:** 1-1-78

SURVEY

Survey Co-ords: E N

Survey bearing **Grid** **Magnetic:**

Surveyed in by: **Date:**

Actual Co-ords 40389.14 E 10424.94 N

R.L. of collar: 953.05 **Inclination of hole:** -77.7° 086° 12' (bearing)

Picked up by: A.P. Stewart **Date:** 16-2-78

SUMMARY

Logged by: J. Clark

Results: 10 - 22 m, 12 m @ 0.81% WO_3, 0.05% MO

62 - 64 m, 2 m @ 0.37% WO_3, 0.01% MO

74 - 76 m, 2 m @ 0.86% WO_3, 0.03% MO

DRILLING

Driller/Contractor: A.D.D.

Date Commenced: 9-1-78 **Date Terminated:** 19-2-78

Casing: Size : BQ

Depth : 1.0

Core: Size : 46TT

Depth : 100.3

Wedge Runoff:

Wedge Placed: **Depth:**

Proposed by: **Approved by:**

Reason:

Extension:

Final depth: 100.3 m

Reason for termination: Passed ore bearing horizons

Condition of hole on completion:

Casing:

Cemented:

Bore hole survey: Multishot

Water:

Comments on drilling conditions:

Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 425/10

Survey method: Multishot Camera
Final depth: 100.30 m
Casing depth: 1.0 m

Depth surveyed to: 100.3 m
Date surveyed to: 17-2-1978
Surveyed by: L. Denby
Checked by: J. Clark

Bearing			Inclination		True vertical Depth (m) R.L.	Co-ordinates	
Depth (m)	Grid	Mag.	Read	Corrected		E	N
0	086.2			-77.7°	953.05	40389.14	10424.94
6					947.19	40390.42	10425.02
12	082.0	54.0	12°0'	-78°			
18					935.45	40392.89	10425.37
24	082.5	54.5	11°45'	-78.25°			
30					923.70	40395.31	10425.69
36	082.0	54.0	11°15'	-78.75°			
42					911.93	40397.63	10426.02
48	080.5	52.5	11°0'	-79°			
54					900.15	40399.89	10426.40
60	081.5	53.5	10°30'	-79.5°			
66					888.35	40402.05	10426.72
72	080.5	52.5	10°15'	-79.75°			
78					876.54	40404.15	10427.09
84	082.0	54.0	10°0'	-80°			
92					862.75	40406.56	10427.43
100	082.0	54	10°0'	-80°	854.87	40407.94	10427.62

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/10

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.3	2.3	2.10	
5.3	3.0	2.96	
8.3	3.0	2.98	
11.3	3.0	2.98	
13.3	2.0	2.0	
16.3	3.0	2.95	
19.3	3.0	2.92	
23.3	4.0	3.96	
26.3	3.0	2.98	
29.3	3.0	2.90	
32.3	3.0	2.96	
35.3	3.0	2.94	
38.3	3.0	2.96	
40.5	2.2	2.18	
46.5	3.0	2.90	
49.3	3.0	2.96	
52.3	3.0	2.96	
55.3	3.0	2.99	
58.3	3.0	2.99	
61.3	3.0	2.96	
64.3	3.0	2.98	
67.3	3.0	2.97	
70.3	3.0	2.98	
73.3	3.0	2.99	
76.3	3.0	2.99	
79.3	3.0	2.98	
82.3	3.0	2.98	
85.3	3.0	2.98	
88.3	3.0	2.98	
91.3	3.0	2.98	
94.3	3.0	2.98	
97.3	3.0	2.98	
100.3	3.0	2.98	

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 425/10

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6016	1	2	1.0	1.0	<0.01	<0.01		
17	2	3	"	"	0.04	<0.01		
18	3	4	"	"	0.41	0.01		
19	4	5	"	"	0.23	<0.01		
20	5	6	"	"	<0.01	<0.01		
21	6	7	"	"	<0.01	<0.01		
22	7	8	"	"	<0.01	<0.01		
23	8	9	"	"	<0.01	<0.01		
24	9	10	"	"	0.26	0.01		
25	10	11	"	"	1.00	0.05		
26	11	12	"	"	1.28	0.08		
27	12	13	"	"	1.28	0.07		
28	13	14	"	"	0.82	0.06		
29	14	15	"	"	0.44	0.03		
30	15	16	"	"	0.20	0.01		
31	16	17	"	"	1.52	0.07		
32	17	18	"	"	0.88	0.05		
33	18	19	"	"	0.25	0.01		
34	19	20	"	"	0.50	0.04		
35	20	21	"	"	0.55	0.03		
36	21	22	"	"	0.97	0.06		
37	22	23	"	"	0.11	<0.01		
38	23	24	"	"	0.20	0.01		
39	24	25	"	"	0.24	0.01		
40	25	26	"	"	0.21	0.01		
41	26	27	"	"	0.07	<0.01		
42	27	28	"	"	<0.01	<0.01		
43	28	29	"	"	<0.01	<0.01		
44	56	57	"	"	<0.01	<0.01		
45	57	58	"	"	<0.01	<0.01		
46	58	59	"	"	0.08	<0.01		
47	59	60	"	"	0.45	0.01		
48	60	61	"	"	0.07	<0.01		
49	61	62	"	"	0.12	<0.01		
50	62	63	"	"	0.35	<0.01		
51	63	64	"	"	0.40	<0.01		
52	64	65	"	"	<0.01	<0.01		
53	65	66	"	"	0.34	0.05		
54	66	67	"	"	0.01	<0.01		
55	67	68	"	"	0.70	0.02		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

ASSAY DATA

D.D.H. No. BH 425/10

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	TO	Length	Length Recovered	WO_3	Mo		
BH 6056	68	69	1.0	1.0	0.13	0.02		
57	69	70	"	"	0.13	0.02		
58	70	71	"	"	0.08	0.02		
59	71	72	"	"	<0.01	0.02		
60	72	73	"	"	0.23	0.02		
61	73	74	"	"	0.16	0.02		
62	74	75	"	"	1.22	0.05	}	
63	75	76	"	"	0.50	0.02	}	
64	76	77	"	"	<0.01	<0.01		
65	77	78	"	"	<0.01	<0.01		

SPECIFIC GRAVITY

Depth (metres):

Rock Type :

S.G. :

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/10

0.00 - 2.40 m — Biotite Hornfels

Dark greenish grey fine grained biotite hornfels. The first metre of the unit consists of broken core.

Fractures / m = 12

2.40 - 4.50 m — Garnet - Pyroxene Hornfels

Fine grained garnet hornfels is mixed with coarser grained pyroxene - calcite hornfels and short lengths of biotite hornfels. Fine grained disseminated scheelite is present within most of the garnet hornfels (about 40% of the unit).

Fractures / m = 6.

4.50 - 9.40 m — Marble

Grey fine to medium grained impure marble with abundant grossular garnet. Bands of biotite hornfels (up to 20 cm thick) and pyroxene hornfels are present so that in places the unit resembles banded footwall beds.

Fractures / m = 5.

9.40 - 26.30 m — Mineralized Banded Footwall Beds

The top of the unit (9.4 - 13.3 m) is extensively mineralized consisting almost entirely of garnet hornfels with only small beds of pyroxene hornfels throughout.

Scheelite occurs as fine disseminations and small veinlets in the garnet hornfels.

In the remainder of the unit, the biotite and pyroxene hornfels beds become thicker, and the garnet hornfels thinner. The garnet hornfels beds are mineralized.

Bedding is 50° to core axis.
Fractures / m = 4

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/10

26.30 - 40.10m — Biotite / Pyroxene Hornfels

Interbedded biotite hornfels and pyroxene hornfels with small marble beds near the top of the unit. Bedding is variable throughout the unit.

Fractures / m = 8

-40.10 m — Fault

Badly broken core with brown hematite staining along fractures.

40.10 - 58.45 m — Biotite Hornfels

Purplish brown and grey biotite hornfels has short lengths of lighter green pyroxene hornfels. Some joint planes have smears of pyrhotite. There is no bedding obviously present.

57.0 - 58.45 m. Pyroxene hornfels becomes more abundant and there are small pods of grossular rimmed by calcite.

Fractures / m = 7

58.45 - 75.40 m — Pyroxene Garnet Hornfels

Pods of calcite, containing grossular are present in a matrix of pyroxene, calcite and grossular. Short zones contain coarse grained calcite, chlorite and actinolite.

From 58.45 - 62.10 m. Calcite pods are not as distinct as elsewhere in the unit. Fine to medium grained scheelite is sparsely disseminated and there are several coarser grained crystals.

64.25 - 65.0 m. Biotite Hornfels
71.4 - 71.5 m. Biotite Hornfels
74.3 - 75.4 m. Thickly disseminated fine grained scheelite in pyroxene garnet hornfels.

There are several open calcite veins nearly parallel to the core axis. These are present at 65.4 - 65.7 m; 66.3 - 66.4 m, 69.5 - 70.1 m, 70.8 - 71.2 m.

Fractures / m = 6

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/10

75.40 - 85.30 m Marble

Grey to white fine to medium grained marble with small bands of fine grained grossular throughout.

Fractures / m = 4.

85.30 - 100.30 m Banded Footwall Beds

Interbedded marble, pyroxene hornfels and biotite hornfels. The top of the unit (85.3 - 91.0 m) is marble rich and other rock types become more abundant below this.

In marble rich zones, some joints have small layers of calcite along then, eg. 90.6 m, 91.6 m, 93.4 m, and there also short zones of broken core in between these intervals.

Bedding is 72° to core axis.

No scheelite is present.
Fractures / m = 7

EOH 100.3

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 425/10

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
6018	0.41	0.01	8027	0.47	<0.01	8028	0.440		8029	0.43		
6028	0.82	0.06	8030	0.83	<0.01	8031	0.950		8032	0.64		
6038	0.20	0.01	8033	0.19	<0.01	8034	0.250		8035	0.26		
6047	0.45	0.01	8036	0.50	<0.01	8037	0.410		8038	0.45		
6062	1.22	0.05	8039	1.06	<0.01	8040	1.40		8041	1.67		


DDH BH 425/10
00.00 – 14.94 m.


DDH BH 425/10
14.94 – 29.97 m.


DDH BH 425/10
29.97 – 44.66 m.


DDH BH 425/10
44.66 – 59.73 m.


DDH BH 425/10
59.73 — 74.78 m.


DDH BH 425/10
74.78 — 89.96 m.


DDH BH 425/10
89.96 — 100.30 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 425/9

PLANNING

Proposer: G. Brown — Depth: 110 m

Location: Q 54 + 956 m R.L.

Purpose of hole: C lens ore blocking

Co-ordinates:	40 400	E 10425	N
Inclination:	-90°		Magnetic:
Bearing	360	Grid	Target Depth:
Target:		E	N
Approved by:	M.C.R.		Date: 1-7 -77

SURVEY

Survey Co-ords:		E	N
Survey bearing:	319° 28'	Grid	Magnetic:
Surveyed in by:			Date:
Actual Co-ords:	40 402.33	E 10 425.23	N
R.L. of Collar:	953.72		Inclination of Hole: -89° 01'
Picked up by:	A. Grigulis		Date: 10-11-77

SUMMARY

Logged by: M. Danielson

Results: 0 - 6 m 6 m @ 0.87% WO_3

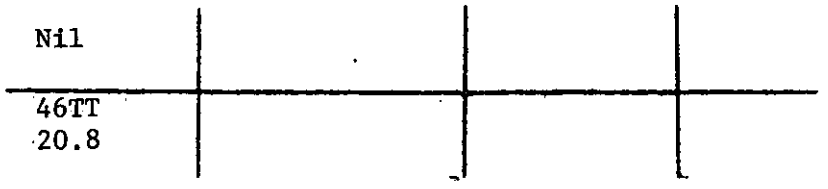
12 - 20.8 m 8.8 m @ 1.36% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 8-11-77 — Date terminated: 11-11-77

Casing:	Size:	Nil
	Depth:	
Core:	Size:	46TT
	Depth:	20.8



Wedge Runoff:

Wedge placed: — Depth:

Proposed by: — Approved by:

Reason:

Extension: Nil

Reason for termination: Hole intersected O 43 mine opening

Condition of hole on completion: — Final depth: 20.8 m

Casing:	No
Cemented:	No
Bore hole survey:	No
Water:	Nil

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 425/9

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 3.3	3.3	3.2	97
5.3	2.0	2.0	100
7.5	2.2	2.2	100
8.2	0.7	0.7	100
10.6	2.4	2.35	98
11.4	0.8	0.9	112
11.7	0.3	0.3	100
13.7	2.0	2.0	100
15.7	2.0	2.0	100
17.7	2.0	2.0	100
20.6	2.9	2.9	100
20.8	0.2	0.16	80
EOH			

GEOPEKO LIMITED -

ASSAY DATA

D.D.H. No. B 425/9

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 5559	0	1	1.0	0.9	0.56	0.04		
60	1	2	"	1.0	0.90	0.05		
1	2	3	"	"	0.56	0.03	6 m @	
2	3	4	"	"	2.52	0.08	0.87% WO_3	
3	4	5	"	"	0.44	0.02		
4	5	6	"	"	0.25	<0.01		
5	6	7	"	"	<0.01	<0.01		
6	7	8	"	"	0.01	<0.01		
7	8	9	"	"	0.33	0.01		
8	9	10	"	"	<0.01	<0.01		
9	10	11	"	"	0.17	<0.01		
70	11	12	"	"	<0.01	<0.01		
1	12	13	"	"	0.79	0.05		
2	13	14	"	"	0.75	0.04		
3	14	15	"	"	0.65	0.04		
4	15	16	"	"	2.37	0.11		
5	16	17	"	"	0.87	0.05	8.8 m @	
6	17	18	"	"	0.72	0.04	1.36% WO_3	
7	18	19	"	"	0.72	0.04		
8	19	~~18~~ 20	"	"	3.89	0.23		
BH 5579	20	20.8	0.8	0.8	1.25	0.05		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. 4259

00 - 5.6 Garnet Pyroxene Skarn

Fine to medium grained pyroxene and andradite skarn containing very patchy disseminated scheelite. Most of this unit would be sub oregrade.

Minor barren bh interbeds at
1.90 - 2.05
2.3 - 2.4
indicates bedding at 40° to L.A.O.C.

5.6 - 8.0 Pyroxene Hornfels

Mostly unmineralized pale green pyroxene hornfels.

Bedding 6 m 15° L.A.O.C.
8 m 40° L.A.O.C.

8.0 - 12.6 Garnet Pyroxene Skarn

Very similar to unit described between 0 - 5.6 m.

Patchy mineralization and unit is very low grade.

12.6 - 20.8 Garnet Pyroxene Calcite Skarn

Medium to coarse grained andradite garnet, pyroxene and white carbonate. High grade disseminated scheelite throughout.

20.8 metres EOH.

GEOLOGY - KING ISLAND SCHEELITE

CHECK ASSAY DATA

D.D.H. No. BH 425/9

LAB.	K.I.S.		LAB.	K.I.S. CHECK		LAB.	AMDEL		LAB.	A.L.S. ...		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
5559	0.56	0.04	7470	0.83	<0.01	7471	0.750		7472	0.63		
5569	0.17	<0.01	7473	0.16	<0.01	7474	0.215		7475	0.19		
5579	1.25	0.05	7476	0.86	<0.01	7477	1.01		7478	0.92		


DDH BH 425/9
00.00 – 14.40 m.


DDH BH 425/9
14.40 – 20.80 m.
E.O.H

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 425/8

PLANNING

Proposer: S.G. Brown — Depth: 45m.

Location: N 53 drive

Purpose of hole: To test B lens Main.

Co-ordinates: 10371 E 10425 N
Inclination: -25°
Bearing 270° Grid
Target: E
Approved by: M.C. Rogers

Magnetic:
Target Depth:
N
Date: 8/11/76

SURVEY

Survey Co-ords: 10 370.36 E 10 424.89 N
Survey bearing: 272° 58' Grid
Surveyed in by:
Actual Co-ords: E
R.L. of Collar: 957.85
Picked up by: A.G.

Magnetic:
Date:
N
Inclination of Hole: -24° 29'
Date: 10/11/76

SUMMARY

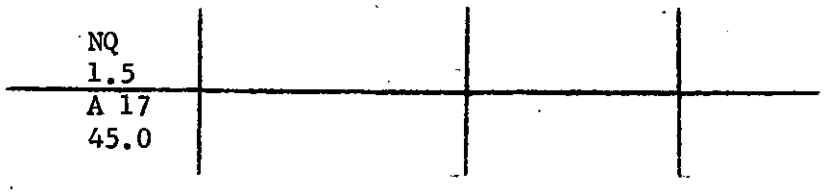
Logged by: R. van den Bogaart
Results: 0.00 - 4.0m 4m @ 1.64 (WO3
18.0 - 23.0m 5m @ 0.92 (WO3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 9/11/76 — Date terminated: 11/11/76

Casing: Size: NQ
Depth: 1.5
Core: Size: A 17
Depth: 45.0



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

Extension: Nil
Reason for termination: Entered barren marble

Condition of hole on completion: — Final depth: 45.0m
Casing: Pulled
Cemented: No
Bore hole survey: Multishot Camera
Water: Minor

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. B 425/8

Survey method: Multishot Camera
Final depth : 45.0m
Casing depth : 1.5m

Depth surveyed to:45m
Date surveyed:11/11/76
Surveyed by :R. Bogaart
Checked by :R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
9m	274°00'	246°00'	62°30'	-27°30'	4.16	3.25	7.29
12m	271°00'	243°00'	62°45'	-27°15'	5.53	4.46	9.67
24m	274°00'	246°00'	62°30'	-27°30'	11.07	8.79	19.39
36m	274°00'	246°00'	61°15'	-28°45'	16.84	13.07	29.00
45m	275°00'	247°00'	60°15'	-29°45'	21.80	16.46	36.99

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. B 425/8

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.20	2.20	2.23	101
3.7	1.50	1.47	98
6.0	2.30	2.22	97
9.0	3.0	3.00	100
12.0	3.0	3.03	101
15.0	3.07	2.97	99
18.0	3.0	3.04	101
21.0	3.0	3.01	100
24.0	3.0	3.0	100
27.0	3.0	2.98	99
30.0	3.0	2.97	99
33.0	3.0	2.93	98
36.0	3.0	3.05	102
39.0	3.0	2.83	94
42.0	3.0	2.94	98
45.0	3.0	2.88	96
E.O.H			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. B 425/8

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
BH								
4139	0.00	1.0	1.0	1.0	5.7	0.36		
4140	1.0	2.0	1.0	1.0	0.56	0.03		
1	2.0	3.0	1.0	1.0	0.35	0.02		
2	3.0	4.0	1.0	1.0	0.02	<0.01		
3	4.0	5.0	1.0	1.0	0.14	0.02		
4	16.0	17.0	1.0	1.0	0.01	0.01		
5	17.0	18.0	1.0	1.0	0.04	< 0.01		
6	18.0	19.0	1.0	1.0	1.77	0.10		
7	19.0	20.0	1.0	1.0	<0.01	< 0.01		
8	20.0	21.0	1.0	1.0	0.48	0.02		
9	21.0	22.0	1.0	1.0	1.83	0.10		
4150	22.0	23.0	1.0	1.0	0.52	0.03		
1	23.0	24.0	1.0	1.0	<0.01	< 0.01		
2	24.0	25.0	1.0	1.0	< 0.01	< 0.01		
3	32.0	33.0	1.0	1.0	< 0.01	< 0.01		
4	33.0	34.0	1.0	1.0	0.12	0.01		
5	34.0	35.0	1.0	1.0	0.20	0.02		
6	35.0	36.0	1.0	1.0	0.01	<0.01		
7	41.0	42.0	1.0	1.0	0.01	<0.01		
8	42.0	43.0	1.0	1.0	0.16	0.02		
4159	43.0	44.0	1.0	1.0	< 0.01	0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 425/8

0.00 - 1.28 PYROXENE GARNET SKARN (B lens Fault Block BF1)

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

1.28 - 4.60 PYROXENE GARNET HORNFELS

A brownish unit of pyroxene garnet hornfels consisting essentially of grossularite and pyroxene, but also containing some subangular pods rich in calcite or calcite - actinolite. Some epidote is associated with the calcite - actinolite rich pods. The unit contains only minor scheelite mineralisation. A calcite filled major fracture or possible minor fault $\simeq 62^{o}$ LCA occurs at 3.04m.

4.60 - 15.10 APLITE

A medium grained pinkish - white highly altered unit of aplite. The unit consists of quartz, feldspar sericite and/or chlorite with minor biotite, pyrite, pyrrhotite and carbonate (calcite?). The whole unit has an erratic carbonate content in the matrix. The whole unit is highly altered with the development of sericite and/or chlorite and altered felspars. The unit is mildly to moderately leached. A xenolith of unaltered biotite pyroxene hornfels occurs between 11.0 -11.78m. The unit is barren of any scheelite mineralisation. The position of No. 2 Fault cannot be observed.

15.10 - 16.98 BANDED BIOTITE PYROXENE HORNFELS

A small unit consisting of somewhat disturbed alternate bands of biotite and pyroxene hornfels, with some minor patches rich in grossularite. The unit is devoid of scheelite mineralisation.

Banding is at:

$\simeq 36^{o}$ LCA @ 15.10m.
$\simeq 19^{o}$ LCA @ 16.90m.

16.98 - 22.68 B LENS MAIN

A mixed unit consisting of alternate bands of pyroxene garnet skarn and banded biotite pyroxene hornfels. The units are as follows:

16.98 - 17.13	Pyroxene Garnet Skarn.
17.13 - 18.0	Biotite Pyroxene Hornfels.
18.0 - 18.77	Pyroxene Garnet Skarn.
18.77 - 19.67	Biotite Pyroxene Hornfels.
19.67 - 20.13	Pyroxene Garnet Skarn.
20.13 - 21.0	Pyroxene Garnet Hornfels.

(minor grains of scheelite)

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 425/8

21.0 - 22.68 Pyroxene Garnet Skarn.

The whole unit is expected to reach grade.
Bedding is at
≃36° LCA @ 18.0m.
≃30° LCA @ 19.80m.
≃29° LCA @ 21.0m.

22.68 - 23.36 MARBLE

A greyish white well bedded unit of marble. The unit is devoid of any scheelite mineralisation.
Bedding is at
≃35° LCA @ 22.86m.

23.36 - 23.87 MINERALISED MARBLE

A small unit of mineralised marble consisting essentially of marble with abundant pyroxene and grossularite. The unit contains medium grained scheelite throughout.

23.87 - 33.62 MARBLE

As above.

A greyish - white, well bedded unit of marble. The unit is devoid of scheelite mineralisation.
Bedding is at
≃32° LCA @ 25.50m.
≃34° LCA @ 27.40m.
≃31° LCA @ 29.90m.
≃27° LCA @ 32.0m.
A minor fault or major fracture ≃ 46° LCA occurs at 28.72m.

33.62 - 35.35 MINERALISED MARBLE

A small unit of mineralised marble consisting of marble with abundant pyroxene and grossularite with minor andradite. The unit contains some calcite rich pods. The unit contains fine to medium grained scheelite and may reach ore grade.

35.35 - 42.0 MARBLE

As above. The unit contains some patches rich in grossularite and wollastonite. The unit has been somewhat more recrystallised that the above unit. Only minor grains of scheelite are associated with the garnet rich areas.
Bedding is at
≃24° LCA @ 36.0m.
≃31° LCA @ 38.75m.

42.0 - 43.16 MINERALISED MARBLE

As above.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. B 425/8

43.16 - 45.0 MARBLE

As above.

45.0 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 425/8

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 4140	0.56		BH 2241	0.54		BH 2242	0.67		BH 2243	0.67		
4150	0.52		2244	0.54		2245	0.57		2246	0.55		

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 425/7

PLANNING

Proposer: S.G. Brown — Depth: 50m.

Location: 0 42 cuddy N 53 drive.

Purpose of hole: To test BF2 adjacent to No.2 Fault.

Co-ordinates: 10 380 E — E 10 425 N — N
Inclination: -62° — Magnetic:
Bearing 090° — Grid — Target Depth:
Target: — E — N
Approved by: M.C. Rogers — Date: 5/9/76

SURVEY

Survey Co-ords: — E — N
Survey bearing: $91^{\circ}55'$ — Grid — Magnetic:
Surveyed in by: — Date:
Actual Co-ords: 10 379.72 — E 10 425.04 — N
R.L. of Collar: 957.84 — Inclination of Hole: $-63^{\circ}16'$
Picked up by: A.G. — Date: 24/9/76

SUMMARY

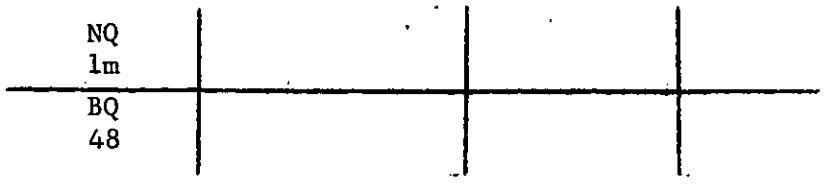
Logged by: S.G. Brown
Results:
0 - 4m 4m @ 0.74% WO_3
18 - 30m 12m @ 0.61% WO_3
33 - 36m 3m @ 0.57% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 8/9/76 — Date terminated: 13/9/76

Casing:	Size:	NQ
	Depth:	1m
Core:	Size:	BQ
	Depth:	48



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

Extension: Nio
Reason for termination: Entered barren banded biotite pyroxene hornfels.

Condition of hole on completion: — Final depth: 49m
Casing: Pulled
Cemented: No
Bore hole survey: Multishot camera
Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 425/7

Survey method: Multishot Camera
Final depth : 49m
Casing depth : 1m

Depth surveyed to: 48m
Date surveyed: 13/9/76
Surveyed by : V.Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
6m	94°00'	66°00'	28°00'	-62°00'	5.30	1.15	2.58
12m	95°00'	67°00'	28°00'	-62°00'	10.60	2.32	5.15
18m	91°00'	63°00'	28°00'	-62°00'	15.90	3.68	7.63
24m	90°30'	62°30	28°00'	-62°00'	21.20	5.01	10.11
30m	89°00'	61°00'	27°45'	-62°15'	26.52	6.39	12.55
36m	89°00'	61°00'	27°45'	-62°15'	31.84	7.75	15.01
42	92°30'	64°30'	27°15'	-62°45'	37.18	8.94	17.48
48m	91°00'	63°00'	26°45'	-63°15'	42.53	10.14	19.91

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/7

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.40	3.40	2.97	87
3.40 - 6.40	3.00	2.97	99
6.40 - 7.30	0.90	0.80	89
7.30 - 7.70	0.40	0.61	153
7.70 - 7.85	0.15	0.23	153
7.85 - 10.90	3.05	2.95	97
10.90 - 13.90	3.00	2.98	99
13.90 - 16.90	3.00	2.98	99
16.90 - 19.90	3.00	3.02	101
19.90 - 22.90	3.00	2.98	99
22.90 - 25.90	3.00	2.96	99
25.90 - 28.90	3.00	2.92	97
28.90 - 31.90	3.00	2.89	96
31.90 - 34.90	3.00	2.96	99
34.90 - 37.00	2.10	2.21	105
37.00 - 40.00	3.00	3.00	100
40.00 - 43.00	3.00	2.99	100
43.00 - 46.00	3.00	2.84	95
46.00 - 49.00	3.00	2.95	98

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 425/7

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH							
3765	0	1	1	0.71	1.12	0.04	
6	1	2	1	1	0.33	0.01	0 - 4m 4m @ 0.74% WO_3
7	2	3	1	1	0.14	<0.01	
8	3	4	1	1	1.36	0.06	
9	4	5	1	1	0.27	<0.01	
3770	5	6	1	1	<0.01	<0.01	
1	6	7	1	1	<0.01	<0.01	
2	7	8	1	1	<0.01	<0.01	
3	8	9	1	1	<0.01	<0.01	
4	9	10	1	1	0.09	<0.01	
5	10	11	1	1	<0.01	<0.01	
6	11	12	1	1	<0.01	<0.01	
7	12	13	1	1	0.47	0.02	
8	13	14	1	1	0.21	<0.01	
9	14	15	1	1	<0.01	<0.01	
3780	15	16	1	1	0.20	<0.01	
1	16	17	1	1	<0.01	<0.01	
2	17	18	1	1	0.26	<0.01	
3	18	19	1	1	0.72	0.05	
4	19	20	1	1	1.28	0.08	
5	20	21	1	1	1.04	0.07	
6	21	22	1	1	0.76	0.03	
7	22	23	1	1	0.43	0.02	
8	23	24	1	1	0.63	0.03	18 - 30m 12m @ 0.61% WO_3
9	24	25	1	1	0.60	0.03	
3790	25	26	1	1	0.43	0.02	
1	26	27	1	1	0.17	<0.01	
2	27	28	1	1	0.43	0.02	
3	28	29	1	1	0.44	0.02	
4	29	30	1	1	0.38	0.02	
3795	30	31	1	1	0.19	<0.01	
6	31	32	1	1	0.14	<0.01	
7	32	33	1	1	0.17	<0.01	
8	33	34	1	1	0.60	0.03	
9	34	35	1	1	0.49	0.02	33 - 36m 3m @ 0.57% WO_3
3800	35	36	1	1	0.62	0.03	
1	36	37	1	1	<0.01	<0.01	
3802	37	38	1	1	<0.01	<0.01	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/7

0.00 - 4.77 PYROXENE GARNET HORNFELS

The first metre of this unit consists mainly of a banded pyroxene hornfels with only minor garnet bands present in it. The amount of garnet increase s from 1 metre to 2 metres where the core becomes garnet rich. Scheelite is present in the garnet rich areas and is probably ore grade from 2.0m to 4.5m.

banding is at 77° LCA at 1.0m
67° LCA at 1.50m

4.77 - 8.14 BIOTITE PYROXENE HORNFELS

Dominantly a very fine grained light grey green pyroxene hornfels with some minor bands of biotite hornfels present throughout.

This unit is barren.

banding is at 65° LCA at 6.40m.

8.14 - 9.98 MINERALISED MARBLE

This is initially a disturbed grey marble with moderate amounts of garnet and pyroxene present in it, these tend to dominate below the 9.0 metre mark.

Scheelite is present in erratic amounts but is sub grade.

9.98 - 12.21 BIOTITE PYROXENE HORNFELS

As above this unit is barren and grades into the next unit by becoming slightly garnetiferous over the last 30cm.

12.21 - 35.92 MINERALISED BANDED FOOTWALL BEDS

This is a unit consisting of bands of garnet skarn alternating with bands of biotite and pyroxene hornfels.

Between 12.21 - 17.10m biotite and pyroxene bands predominate and although mineralised garnet bands are present the overall grade is probably below cut off.

From 17.10 - 35.92 the garnet bands predominate and these contain high grade scheelite so that a large percentage of this zone should be of ore grade.

bedding is at 42° LCA at 13.60m
61° LCA at 16.43m
59° LCA at 22.75m
60° LCA at 24.30m
62° LCA at 25.90m
67° LCA at 28.40m
66° LCA at 31.90m
75° LCA at 34.80m

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/7

35.92 - 42.61 BANDED FOOTWALL BEDS

Essentially a banded biotite pyroxene calcite hornfels with some minor garnets associated with the calcite bands. Some moderate grade scheelite occurs between 42.40 - 42.61m

In some parts of this unit the bedding is quite disturbed

68^{o} LCA at 35.90m
30^{o} LCA at 38.20m
70^{o} LCA at 41.00m
35^{o} LCA at 42.20m

42.61 - 49.00 BANDED BIOTITE PYROXENE HORNFELS

A finely banded unit of biotite pyroxene hornfels. This unit is completely devoid of calcite and is barren of scheelite mineralisation.

bedding is at 47^{o} LCA at 43.10m
58^{o} LCA at 46.0m
57^{o} LCA at 45.0m

49.00 E.O.H.

GEOPEKO LIMITED - KING ISLAND

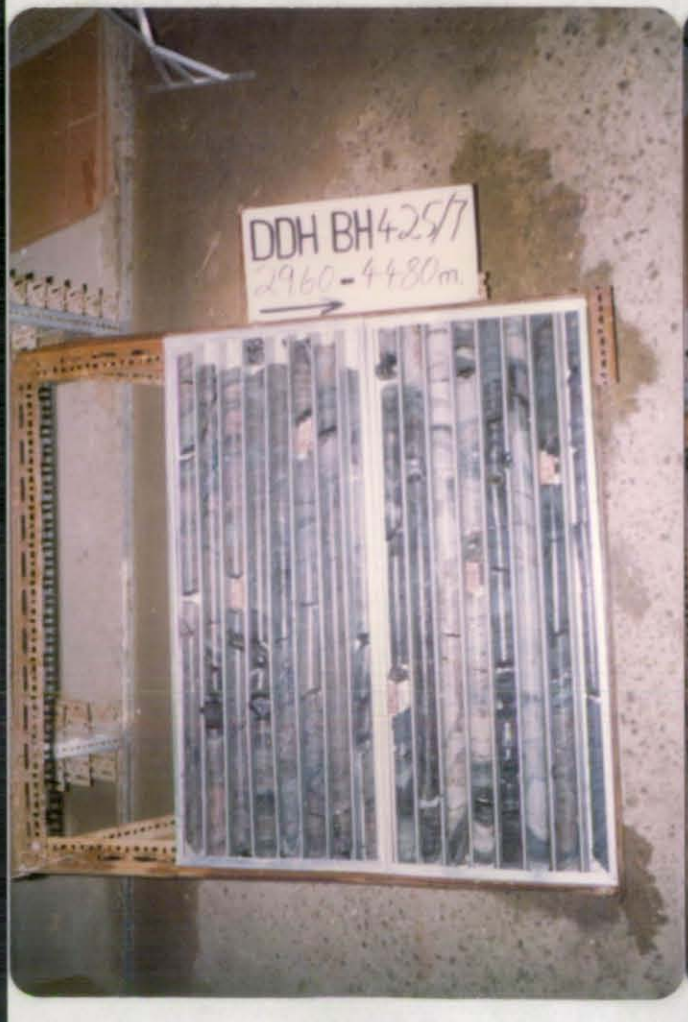
CHECK ASSAY DATA

D.D.H. BH 425/7

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 3765	1.12		BH 1841	1.15		BH 1842	1.30		BH 1843	1.26		
3775	<0.01		1844	<0.01		1845	0.014		1846	0.0045		
3785	1.04		1847	1.48		1848	1.56		1849	1.30		
3795	0.19		1850	0.24		2151	0.305		2152	0.26		


DDH BH425/7
0.0 - 14.65 m.


DDH BH425/7
14.65 - 29.60 m.


DDH BH425/7
29.60 - 44.80m.


DDH BH425/7
44.80 - 49.00m.
EOH

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 425/6

PLANNING

Proposer: S.G. Brown — Depth: 25m.

Location: 0 42 drill cuddy N 53 drive.

Purpose of hole: To test B lens main on 10425 N.

Co-ordinates: 10 378.0 E 10425.0 N
Inclination: -45 Magnetic:
Bearing 270 Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 2/9/76

SURVEY

Survey Co-ords: E N
Survey bearing: 266°48' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 10377.73 E 10 424.98 N
R.L. of Collar: 957.91 Inclination of Hole: -45° 07'
Picked up by: A.G. Date: 24/9/76

SUMMARY

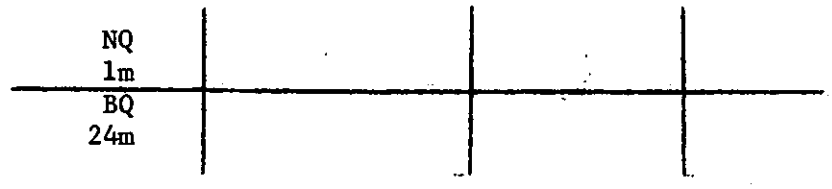
Logged by: S.G. Brown
Results: 0 - 2m 2m @ 0.91% BF1
4.0 - 10.0 6m @ 1.06% B Fault
15.0 - 20.0 5m @ 1.19% WO_3 B Main.

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 1/9/76 Date terminated: 7/9/76

Casing: Size: NQ
Depth: 1m
Core: Size: BQ
Depth: 24m



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

Extension: Nil
Reason for termination: Entered barren marble

Condition of hole on completion: Final depth: 25m
Casing: Pulled
Cemented: No
Bore hole survey: Multishot camera
Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 425/6

Survey method: Multishot camera
Final depth : 25m
Casing depth : 1m

Depth surveyed to: 24m
Date surveyed: 13/9/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
6m	264°00'	236°00'	-45°00'	-45°00'	4.24	2.37	3.52
12m	268°30'	240°30'	-44°30'	-45°30'	8.52	4.48	7.15
18m	268°30'	240°30'	-44°00'	-46°00'	12.82	6.52	10.80
24m	269°00'	241°30'	-44°00'	-46°00'	17.14	8.53	14.44

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/6

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 2.80	2.800	2.41	86
2.80 - 5.10	2.30	2.32	101
5.10 - 7.50	2.40	2.43	101
7.50 - 10.50	3.00	2.77	92
10.50 - 13.50	3.00	2.99	100
13.50 - 16.50	3.00	2.96	98.7
16.50 - 19.50	3.00	3.00	100
19.50 - 22.50	3.00	2.98	99.3
22.50 - 25.50	3.00	2.91	97.0
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 425/6

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH							
3744	0	1	1	0.61	1.11	0.06	0 - 2m 2m @
5	1	2	1	1	0.71	0.03	0.91% WO_3
6	2	3	1	1	<0.01	<0.01	
7	3	4	1	1	<0.01	<0.01	
8	4	5	1	1	1.19	0.08	
9	5	6	1	1	0.56	0.04	
3750	6	7	1	1	0.77	0.04	4.0 - 10.0m, 6m @
1	7	8	1	1	0.91	0.05	1.06% WO_3
2	8	9	1	1	1.44	0.09	
3	9	10	1	1	1.47	0.08	
4	10	11	1	1	0.01	<0.01	
5	11	12	1	1	<0.01	<0.01	
6	12	13	1	1	<0.01	<0.01	
7	13	14	1	1	<0.01	<0.01	
8	14	15	1	1	<0.01	<0.01	
9	15	16	1	1	1.66	0.09	
3760	16	17	1	1	0.47	0.01	15 - 20m, 5m @
1	17	18	1	1	0.74	0.03	1.19% WO_3
2	18	19	1	1	1.98	0.12	
3	19	20	1	1	1.09	0.07	
3764	20	21	1	1	<0.01	<0.01	

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. 425/6

0.0 - 1.74 GARNET SKARN

A coarse grained garnet skarn with well developed garnet crystals present in this area.
The last 30 cm are very rich in pyrrhotite.
Scheelite is present throughout this unit and is present in moderate to large amounts.

1.74 - 4.06 MARBLE

A grey white marble with some banding, probably remnant bedding present in this unit.
sub parallel to core axis at 2.70m 53^0 LCA at 3.80m.
This unit is barren.

4.06 - 10.24 GARNET SKARN

A well developed garnet skarn with large irregular patches of calcite and actinolite set in a crystolic garnet matrix. Good grade scheelite is present throughout this unit.
A calcite filled fracture is present at 8.71m, at 37° LCA.

10.24 - 10.27 NO. 2 FAULT

A calcite filled fault zone.

10.27 - 15.23 BIOTITE PYROXENE HORNFELS

Adjacent to the No. 2 Fault this unit is broken and weathered but below about 10.86 it becomes fresher and shows well developed bedding. Minor garnet is associated with the pyroxnee rich areas and trace scheelite is visible in these zones.
bedding is at 46° LCA at 10.93m
34° LCA at 13.35m.

15.23 - 20.17 GARNET PYROXENE SKARN (B LENS)

The first cm of this unit ispyroxene rich but below this the garnet skarn is dominant with bands of biotite pyroxene hornfels between 16.28 - 16.51m.
Over the last 30cm the unit grades into pyroxene rich hornfels and then to marble at 20.17m.
Good grade scheelite mineralisation is present throughout with the exception of the biotite pyroxene hornfels band.
bedding is at 46° LCA at 16.40m.

20.17 - 25.50 MARBLE

A finely banded grey marble with the thin bands being dark grey to black in colour.
bedding is well developed throughout.
53° LCA at 20.80m.
55^0 LCA at 23.70m. This unit is barren.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 425/6

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 3745	0.71		BH 1835	0.66		BH 1836	0.80		BH 1837	0.63		
3755	<0.01		1838	<0.01		1839	0.006		1840	0.009		


DDH BH 425/6
0000 - 1520 m.
E-W


DDH BH 425/6
1520 - 2550 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO.BH 425/5

PLANNING

Proposer: S.G. Brown — Depth: 25m

Location: 0 42 - N 53 drive

Purpose of hole: To test B lens East adjacent to No. 2 Fault

Co-ordinates: 10 380 E 10 425 N
Inclination: -81° Magnetic:
Bearing 270° Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 27/7/76

SURVEY

Survey Co-ords: E N
Survey bearing: 264°17' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 10 378.76 E 10 425.02 N
R.L. of Collar: 957.85 Inclination of Hole: -81°25'
Picked up by: J. Cook Date: 3/9/76

SUMMARY

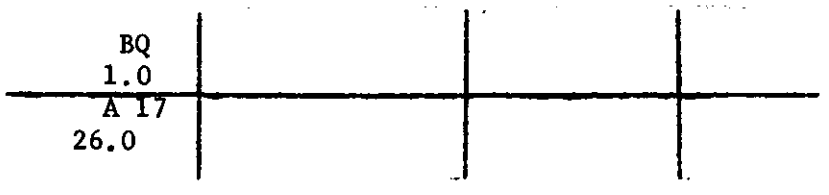
Logged by: S.G. Brown
Results: 0 - 3m, 3m @ 1.49% WO_3
6 - 8m, 2m @ 1.66% WO_3
16 - 18m, 2m @ 1.13% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 25/8/76 Date terminated: 31/8/76

Casing: Size: BQ
Depth: 1.0
Core: Size: A 17
Depth: 26.0



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

Condition of hole on completion: Final depth: 26.0m
Casing: Nil
Cemented: No
Bore hole survey: Multishot camera
Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 425/5

Survey method: Multishot camera
Final depth : 26m
Casing depth : 1m

Depth surveyed to: 26m
Date surveyed: 31/8/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		S	W
9	267°00'	239°00'	9°00'	-81°00'	8.89	0.72	1.21
18	266°00'	238°00'	8°45'	-81°15'	17.78	1.42	2.43
26	269°30'	241°30'	9°00'	-81°00'	25.70	2.05	3.48

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/5

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 3.60	3.60	3.10	86.1
3.60 - 6.60	3.00	2.99	99.7
6.60 - 8.50	1.90	1.70	89.47
8.50 - 11.20	2.70	2.87	106.3
11.20 - 12.50	1.30	1.31	100.8
12.50 - 14.20	1.70	1.56	91.8
14.70 - 14.80	0.60	0.59	98.3
14.60 - 15.20	0.40	0.27	67.5
15.20 - 17.30	2.10	2.08	99.1
17.30 - 17.80	0.50	0.46	92.0
17.80 - 18.10	0.30	0.19	63.3
18.10 - 18.50	0.40	0.40	100
18.50 - 19.20	0.70	0.60	85.7
19.20 - 21.00	1.80	1.89	105.0
21.00 - 23.20	2.20	2.03	92.3
23.20 - 26.00	2.80	2.80	100
26.00 E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 425/5

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 3721	0	1	1	0.6	1.34	0.08	0 - 3m, 3m @ 1.49% WO_3	
2	1	2	1	1	2.75	0.11		
3	2	3	1	1	0.39	0.01		
4	3	4	1	1	0.16	<0.01		
5	4	5	1	1	0.13	<0.01		
6	5	6	1	1	0.24	0.01		
7	6	7	1	1	2.90	0.11	6m - 8m, 2m @ 1.66% WO_3	
8	7	8	1	1	0.42	<0.01		
9	8	9	1	1	<0.01	<0.01		
3730	9	10	1	1	<0.01	<0.01		
1	10	11	1	1	0.20	<0.01		
2	11	12	1	1	<0.01	<0.01		
3	12	13	1	1	<0.01	<0.01		
4	13	14	1	1	<0.01	<0.01		
5	14	15	1	1	<0.01	<0.01		
3736	15	16	1	1	0.18	<0.01		
7	16	17	1	1	1.81	0.09	16 - 18m, 2m @ 1.13% WO_3	
8	17	18	1	1	0.45	0.01		
9	18	19	1	1	0.02	<0.01		
3740	19	20	1	1	0.38	0.01		
1	20	21	1	1	0.29	0.01		
2	21	22	1	1	0.20	0.01		
3	22	23	1	1	0.01	<0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/5

0.00 - 13.42 PYROXENE GARNET HORNFELS

This unit although essentially a pyroxene garnet hornfels does have a considerable amount of variation both in pyroxene and garnet contentstand in the amount of bedding apparant in the core.

Between 0.00 - 1.80 the core is essentially a pyroxene garnet skarn with high grade scheelite present throughout
from 1.80 - 3.61 there is a banded unit of pyroxene hornfels with minor amounts of biotite present in the first 20cm.
bedding is at 44° LCA.

Some areas of disturbed pgh are present in the lower half of this unit.
from 3.61 - 8.15m the unit is essentially a disturbed banded pyroxene garnet hornfels, with varying amounts of scheelite present throughout. Possible ore grade mineralisation occurs between 3.80 - 7.13m the rest of the area being sub grade.
bedding is apparant at 4.62m at 40° LCA
6.50m at 34° LCA
A fracture is apparant at 7.44m @ 37° LCA. Calcite filled
from 8.15 - 9.72m the core is mainly pyroxene hornfels with some minor garnet present in the pyroxene hornfels towards 9.72m. This unit is barren.
bedding is at 54° LCA at 9.60m but it is very disturbed and brecciated.
from 9.72 - 13.42 the core is again a pyroxene garnet hornfels with varying amounts of garnet in it.

13.42 - 15.56 BANDED BIOTITE PYROXENE HORNFELS

A finely bedded unit of biotite pyroxene hornfels, completely barren of scheelite mineralisation.
bedding is at 40° LCA at 14.48m.
and 36° LCA at 15.26m.

15.56 - 21.41 PYROXENE GARNET HORNFELS

A typical disturbed podded unit of pyroxene garnet hornfels.

Scheelite is present throughout but only reaches ore grade between 16.50 - 17.50m and 19.46 - 21.41m.
A major fault No.2 Fault is located at about 18.33m. The core on either side is quite badly broken for about 50cm. The fault is at about 12° LCA and is filled with calcite and clinohumite.

21.41 - 26.00 MARBLE

A grey black well bedded 'B' lens marble with occasional wollastonite zone and very rare garnets.
bedding is at 64° LCA at 23.20m

26.00 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 425/5

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 3725	0.13		BH 1829	0.18		BH 1830	.235		BH 1831	0.21		
3735	<0.01		1832	<0.01		1833	0.012		1834	.0025		


DDH BH L 25/5
00-00 - 14.75 m.


DDH BH L 25/5
14.75 - 26.10 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 425/4

PLANNING

Proposer: S.G. Brown — Depth: 35m

Location: 0 42 cuddy - N 53 drive

Purpose of hole: To test B lens fault block adjacent No.2 Fault.

Co-ordinates: 10 380 E 10 425 N
Inclination: -80 Magnetic:
Bearing 090 Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 27/7/76

SURVEY

Survey Co-ords: E N
Survey bearing: 92°28' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 10 379.20 E 10 425.03 N
R.L. of Collar: 957.88 Inclination of Hole: -79°14'
Picked up by: J. Cook Date: 3/9/76

SUMMARY

Logged by: S.G. Brown
Results: 0 - 5m, 5m @ 1.10% WO_3
19 - 25, 6m @ 0.59% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 23/8/76 Date terminated: 26/8/76

Casing:	Size:	NQ			
	Depth:	1.0			
Core:	Size:	A 17			
	Depth:	33-50			

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

Extension: Nil
Reason for termination: Entered biotite pyroxene hornfels below BF2 lens

Condition of hole on completion: Final depth: 33-50
Casing: left
Cemented: No
Bore hole survey: Multishot camera
Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 425/4

Survey method: Multishot camera
Final depth : 33.50m
Casing depth : 1.0m

Depth surveyed to: 33m
Date surveyed:30/8/76
Surveyed by :V. Powell
Checked by :R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
9	87°30'	59°30'	10°15'	-79°45'	8.85	0.85	1.36
18	89°00'	61°00'	10°15'	-79°45'	17.70	1.65	2.75
27	85°00'	57°00'	10°15'	-79°45'	26.55	2.46	4.09
33	88°30'	60°30'	9°45'	-80°15'	32.46	3.01	4.96

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/4

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.80	3.80	3.26	86
6.65	2.85	2.62	92
9.65	3.00	2.93	98
12.65	3.00	2.99	99
15.65	3.00	2.95	98
18.60	2.95	2.78	94
21.60	3.00	3.00	100
24.60	3.00	3.02	100
27.60	3.00	2.76	92
29.40	1.80	1.53	85
30.60	1.20	1.06	88
32.10	1.50	1.24	83
33.50	1.40	1.20	86
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 425/4

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH 3698	0	1	1	0.60	2.47	0.10		
9	1	2	1	1	0.22	<0.01	0 - 5m	5m @
3700	2	3	1	1	0.81	0.04	1.10% WO_3	
1	3	4	1	1	1.26	0.07		
2	4	5	1	1	0.75	0.04		
3	5	6	1	1	0.23	0.01		
4	6	7	1	1	<0.01	<0.01		
5	7	8	1	1	<0.01	<0.01		
6	8	9	1	1	<0.01	<0.01		
7	9	10	1	1	0.03	<0.01		
8	10	11	1	1	0.03	<0.01		
9	11	12	1	1	0.25	0.01		
3710	12	13	1	1	0.56	0.02		
1	13	14	1	1	0.19	<0.01		
3712	18	19	1	1	<0.01	<0.01		
3	19	20	1	1	0.53	0.02	19 - 25m,	6m @
4	20	21	1	1	0.61	0.03	0.59% WO_3	
5	21	22	1	1	0.56	0.03		
6	22	23	1	1	0.58	0.02		
7	23	24	1	1	0.61	0.02		
8	24	25	1	1	0.66	0.03		
9	25	26	1	1	0.23	<0.01		
3720	26	27	1	1	<0.01	<0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/4

0.00 - 13.49 PYROXENE GARNET HORNFELS

Initially this unit is banded over the first 3m with the bands consisting of garnet rich and pyroxene rich hornfels with occasional minor amounts of biotite rich hornfels.

Between 0.91 and 2.82m the pyroxene beds predominate and only minor scheelite occurs in this area. Below 3m the core is dominantly a fine grained pyroxene garnet hornfels in which the pyroxene predominates although garnet rich zones occur between 3m - 5.65m and 7.28 - 8.18m.

Between 11.44m and 13.49m the core is again a banded pyroxene garnet hornfels with minor calcite bands and is transitional to the banded footwall beds.

Good scheelite is present in this area.

bedding is at 80° LCA at 2.5m
66° LCA at 12.5m

13.49 - 19.32 BANDED FOOTWALL BEDS

This unit consists of altinating bands of biotite hornfels and marble with lesser amounts of pyroxene and trace garnet only very minor traces of scheelite are present in this unit.

bedding is at 47° LCA at 13.7m
44° LCA at 17.3m
51° LCA at 19.0m

19.32 - 26.41 MINERALISED BANDED FOOTWALL BEDS

Initally this unit has a typically banded appearance but below about 22.5m the core consists almost entirely of garnet pyroxene hornfels, with minor bands of pyroxene and biotite hornfels present in it.

Good grade scheelite is present as fine crystals throughout this unit.

bedding is at 68° LCA at 20.2m
73° LCA at 25.5m.

26.41 - 27.02 DISTURBED BIOTITE PYROXENE HORNFELS

An extremely disturbed unit of biotite pyroxene hornfels which appear to have been sheered out at 14° LCA.

27.02 - 33.50 BIOTITE HORNFELS

A sheared unit of slightly podded biotite hornfels. The unit is essentially a fine brown purple biotite hornfels with broken and slightly elongated siliceous fragments throughout.

This unit is barren.

33.50 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H.) BH 425/4

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 3700	0.81		BH 1820	0.79		BH 1821	0.97		BH 1822	0.87		
3710	0.56		1823	0.31		1824	0.50		1825	0.48		
3720	<0.01		1826	<0.01		1827	0.036		1828	0.019		


DDH BH L 25/4
00.00 - 14.94 m.


DDH BH L 25/4
14.94 - 25.55 m.


DDH BH L 25/4
25.55 - 33.50 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 425/3

PLANNING

Proposer: S.G. Brown — Depth: 50 metres

Location: 0 42 Cuddy - N 53 drive.

Purpose of hole: To test BF2 lens adjacent to Boundary Fault.

Co-ordinates: 10 380 E 10425 N
Inclination: -44°
Bearing 090° Grid
Target: E
Approved by: M.C. Rogers

Magnetic:
Target Depth:
N
Date: 27/7/76

SURVEY

Survey Co-ords: E N
Survey bearing: 92°33' Grid
Surveyed in by:
Actual Co-ords: 10380.24 E 10 425.02 N
R.L. of Collar: 957.99
Picked up by: J. Cook

Magnetic:
Date:
Inclination of Hole: -44°39'
Date: 3/9/76

SUMMARY

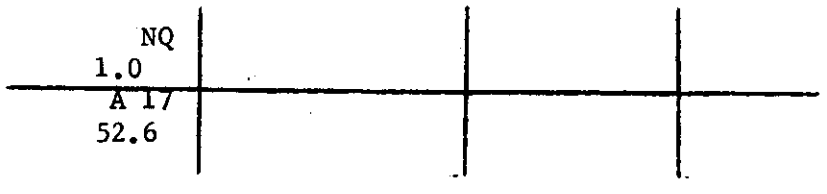
Logged by: R. van den Bogaart
Results: 21.0 - 35.0 14m @ 1.03% WO_3
BF2 lens

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 12/8/76 — Date terminated: 17/8/76

Casing: Size: NQ
Depth: 1.0
Core: Size: A 17
Depth: 52.6



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

Extension: Nil
Reason for termination: Entered disturbed biotite pyroxene hornfels

Condition of hole on completion: — Final depth: 52.60
Casing: left
Cemented: No
Bore hole survey: Multishot camera
Water: Minor

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 425/3

Survey method: Multishot camera
Final depth : 52.60m
Casing depth : 1.0m

Depth surveyed to: 51m
Date surveyed: 30/8/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
12	92°30'	64°30'	46°00'	-44°00'	8.36	3.61	7.82
24	93°30'	65°30'	45°45'	-44°15'	16.71	7.20	15.66
36	94°00'	66°00'	45°45'	-44°15'	25.09	10.76	23.46
51	94°00'	66°00'	45°45'	-44°15'	35.52	15.17	33.28

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/3

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.60	3.60	3.32	92
6.00	2.40	2.17	90
9.50	3.50	3.74	107
12.50	3.00	2.98	99
15.50	3.00	3.04	101
18.50	3.00	3.07	102
21.50	3.00	2.99	100
24.50	3.00	2.98	99
27.50	3.00	3.03	101
30.50	3.00	2.93	98
33.50	3.00	3.05	102
36.50	3.00	2.97	99
37.60	1.10	1.12	102
40.60	3.00	2.85	95
43.60	3.00	3.00	100
46.60	3.00	2.85	95
43.60	3.00	3.00	100
46.60	3.00	3.05	102
49.60	3.00	3.04	101
52.60	3.00	3.03	101
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 425/3

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH 3635	0.00	1.0	1.0	1.0	0.46	0.02	
6	1.0	2.0	1.0	1.0	0.17	<0.01	
7	2.0	3.0	1.0	1.0	0.37	0.02	
8	3.0	4.0	1.0	1.0	0.27	0.31	
9	4.0	5.0	1.0	1.0	0.12	0.38	
3640	5.0	6.0	1.0	1.0	<0.01	0.01	
1	6.0	7.0	1.0	1.0	<0.01	<0.01	
2	7.0	8.0	1.0	1.0	<0.01	<0.01	
3	8.0	9.0	1.0	1.0	0.21	0.01	
4	9.0	10.0	1.0	1.0	<0.01	<0.01	
5	10.0	11.0	1.0	1.0	<0.01	<0.01	
6	11.0	12.0	1.0	1.0	<0.01	<0.01	
7	12.0	13.0	1.0	1.0	0.42	0.02	
8	13.0	14.0	1.0	1.0	0.28	0.01	
9	14.0	15.0	1.0	1.0	<0.01	<0.01	
3650	15.0	16.0	1.0	1.0	<0.01	<0.01	
1	16.0	17.0	1.0	1.0	<0.01	<0.01	
2	17.0	18.0	1.0	1.0	<0.01	<0.01	
3	18.0	19.0	1.0	1.0	<0.01	<0.01	
4	19.0	20.0	1.0	1.0	<0.01	<0.01	
5	20.0	21.0	1.0	1.0	<0.01	<0.01	
6	21.0	22.0	1.0	1.0	3.32	0.17	
7	22.0	23.0	1.0	1.0	0.56	0.03	
8	23.0	24.0	1.0	1.0	0.76	0.05	
9	24.0	25.0	1.0	1.0	2.37	0.15	
3660	25.0	26.0	1.0	1.0	0.84	0.04	21.0 - 35.0m, 14m @ 1.03% WO_3
1	26.0	27.0	1.0	1.0	0.34	0.02	
2	27.0	28.0	1.0	1.0	0.74	0.04	
3	28.0	29.0	1.0	1.0	0.11	<0.01	
4	29.0	30.0	1.0	1.0	0.38	0.01	
5	30.0	31.0	1.0	1.0	0.51	0.01	
6	31.0	32.0	1.0	1.0	0.92	0.07	
7	32.0	33.0	1.0	1.0	0.32	0.01	
8	33.0	34.0	1.0	1.0	2.20	0.10	
9	34.0	35.0	1.0	1.0	1.00	0.05	
3670	35.0	36.0	1.0	1.0	<0.01	<0.01	
1	36.0	37.0	1.0	1.0	<0.01	<0.01	
2	37.0	38.0	1.0	1.0	<0.01	<0.01	
3	38.0	39.0	1.0	1.0	<0.01	<0.01	
4	39.0	40.0	1.0	1.0	<0.01	<0.01	
5	40.0	41.0	1.0	1.0	<0.01	<0.01	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED -BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 425/3

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
6	41.0	42.0	1.0	1.0	0.01	0.01		
7	42.0	43.0	1.0	1.0	0.01	0.01		
8	43.0	44.0	1.0	1.0	0.01	0.01		
3679	44.0	45.0	1.0	1.0	0.01	0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/3

0.0 - 0.85 BANDED BIOTITE PYROXENE HORNFELS

A banded unit of biotite pyroxene hornfels with irregular bands of pyroxene garnet hornfels. Some scheelite mineralisation is associated with the pyroxene garnet hornfels.
Banding is at $\simeq 65^{\circ}$ LCA @ 0.70m.

0.85 - 5.14 BANDED PYROXENE GARNET HORNFELS

A banded green-brown unit of pyroxene garnet hornfels containing pyrite, pyrrhotite molybdenite and carbonate in the groundmass. The unit contains medium grade scheelite mineralisation and some very large spheroids of molybdenite between 3.80 - 4.40m.

5.14 - 8.04 PYROXENE HORNFELS

A fine grained greenish-grey unit of pyroxene hornfels with irregular patches rich in garnet and biotite. The unit is devoid of any scheelite mineralisation.

8.04 - 9.50 PYROXENE GARNET HORNFELS

A fine grained unit of pyroxene garnet hornfels. The unit is pyroxene rich and is almost devoid of scheelite mineralisation.

9.50 - 11.80 BIOTITE PYROXENE HORNFELS

A disturbed unit of pyroxene garnet hornfels. The unit became biotite rich between 10.64 - 11.80. The unit is devoid of any scheelite mineralisation.

11.80 - 21.04 BANDED FOOTWALL BEDS

A banded unit consisting of alternate bands of biotite, pyroxene, calcite and garnet hornfels. The unit contains some sub-grade scheelite associated with the garnet rich area. Calcite hornfels banding dominates.

Bedding is 57° LCA @ 11.81m
64° LCA @ 14.36m
42° LCA @ 16.35m
60° LCA @ 20.65m

21.04 - 36.36 MINERALISED BANDED FOOTWALL BEDS

Similar to the unit above but mineralised garnet bands being more dominant. The unit could be described as a banded pyroxene garnet hornfels with minor bands of pyroxene and biotite. The unit contains pyrite, pyrrhotite, molybdenite, chalcopyrite in

the groundmass. Medium grade scheelite is present throughout and is expected to reach ore grade.

Bedding is at 42° LCA @ 28.23m
48° LCA @ 32.03m
48° LCA @ 33.47m

The mineralised banded footwall beds terminate against a breccia zone at 36.36 and at 15° LCA.

36.36 - 43.57 DISTURBED BANDED FOOTWALL BEDS

A disturbed unit of banded footwall beds consisting of alternating bands of biotite pyroxene, calcite and garnet hornfels. Calcite hornfels dominates and has been leached. The unit contains some erratic scheelite mineralisation associated with the garnet rich areas. Major fractures occur at 37.60m and 41.50m.

Bedding is at 18° @ 38.60m
23° @ 39.95m
40° @ 41.72m

43.57 - 52.60 DISTURBED BANDED BIOTITE PYROXENE HORNFELS

A severely disturbed unit of banded biotite pyroxene hornfels with irregular pods rich in garnet and pyrrhotite. Minor scheelite mineralisation is associated with the garnet rich areas.

Bedding is at 5° LCA @ 44.33m
32° LCA @ 43.57m
22° LCA @ 46.84m

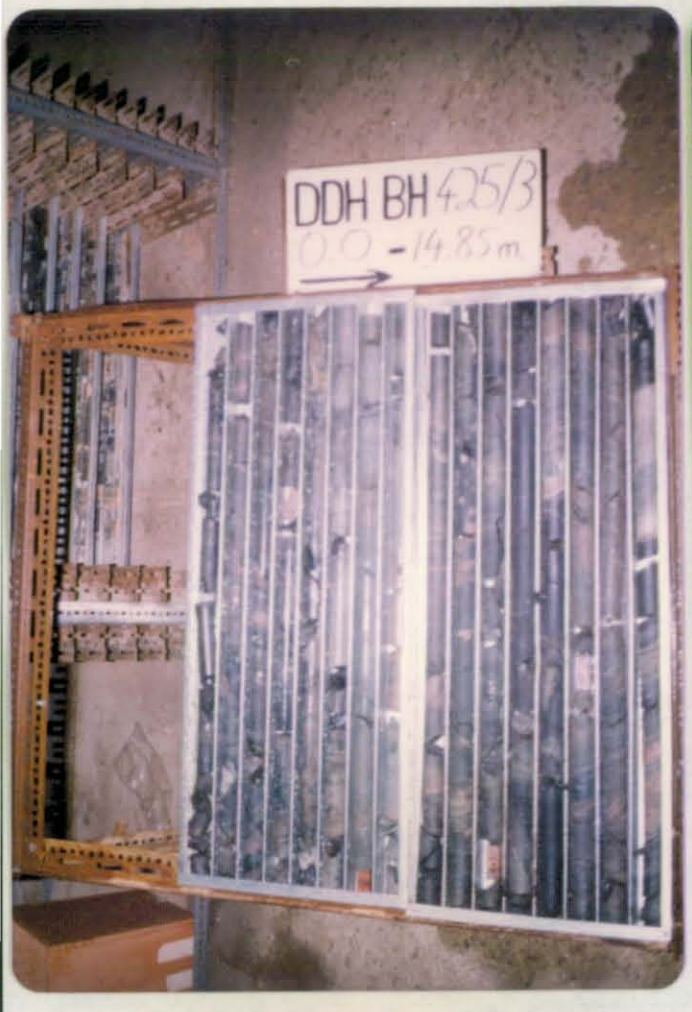
52.60m E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 425/3

LAB.	K.I.S.		LAB. K.I.S.			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 3635	0.46		BH 1799	0.48		BH 1800	0.54		BH 1801	0.47		
3645	<0.01		1802	<0.01		1803	0.026		1804	.0045		
3655	<0.01		1805	<0.01		1806	0.018		1807	.012		
3665	0.51		1808			1809	0.59		1810	0.55		
3675	<0.01		1811	<0.01		1812	0.006		1813	0.005		


DDH BH 425/3
0.0 - 14.85m


DDH BH 425/3
14.85 - 28.50m


DDH BH 425/3
28.50 - 43.00m


DDH BH 425/3
43.00 - 52.60m

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B 425/2

PLANNING

Proposer: S.G. Brown — Depth: 35m

Location: N 53 drive

Purpose of hole: To test BF2 lens adjacent to the Boundary Fault.

Co-ordinates: 10 380 E 10 425 N
Inclination: -17°
Bearing 090° Grid
Target: E N
Approved by: M.C. Rogers

Magnetic:
Target Depth:
Date: 27/7/76

SURVEY

Survey Co-ords: E N
Survey bearing: 90°41' Grid
Surveyed in by:
Actual Co-ords: 10 380.69 E 10 425.01 N
R.L. of Collar: 958.67
Picked up by: J. Cook

Magnetic:
Date:
Inclination of Hole: -13°43'
Date: 3/9/76

SUMMARY

Logged by: S.G. Brown
Results: 0 - 5m, 5m @ 0.62% WO_3
16 -27m, 11m @ 0.67% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 3/8/76 — Date terminated: 9/8/76

Casing: Size: Nil
Depth:
Core: Size: A
Depth: 17 - 33.80

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

Extension: Nil
Reason for termination: Entered quartzites

Condition of hole on completion: — Final depth: 33.80m
Casing: Nil
Cemented: No
Bore hole survey: Multishot camera
Water: Minor

Comments on drilling conditions: Good

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 425/2

Survey method: Multishot camera
Final depth : 33.80m
Casing depth : Nil

Depth surveyed to: 33m
Date surveyed: 30/8/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
9	93°30'	65°30'	73°30'	−17°30'	2.56	2.56	7.85
18	93°00'	65°00'	73°45'	−16°15'	5.08	7.26	15.67
27	93°30'	65°30'	74°00'	−16°00'	7.57	10.90	23.50
33	93°00'	65°00'	74°15'	−15°45'	9.19	13.20	28.80

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 3.00	3.00	3.21	107%
3.00 - 6.00	3.00	2.74	91.3%
6.00 - 9.00	3.00	3.02	100.7%
9.00 - 12.00	3.00	2.88	96%
12.00 - 15.00	3.00	2.83	94.3%
15.00 - 18.00	3.00	2.91	97%
18.00 - 21.00	3.00	3.00	100%
21.00 - 21.50	0.50	0.52	104%
21.50 - 24.00	2.50	2.48	98%
24.00 - 27.00	3.00	3.05	101.7%
27.00 - 28.20	1.20	1.20	100%
28.20 - 30.80	2.60	2.27	87.3%
30.80 - 33.80	3.00	3.03	101.0%
E.O.H.			

GEOPEKO LIMITED - Bold Head Mine

ASSAY DATA

D.D.H. No. BH 425/2

Sample No.	DEPTH (METRES)				ELEMENTS		COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo	
BH 3607	0.00	1.00	1.00	1.00	0.30	0.01	
8	1.0	2.0	1.00	1.00	0.74	0.04	
9	2.0	3.0	1.0	1.0	0.72	0.04	0.5m 5m @ 0.62% WO_3
3610	3.0	4.0	1.0	1.0	0.66	0.04	
1	4.0	5.0	1.0	1.0	0.70	0.03	
2	5.0	6.0	1.0	1.0	<0.01	<0.01	
3	6.0	7.0	1.0	1.0	<0.01	<0.01	
4	7.0	8.0	1.0	1.0	<0.01	<0.01	
5	8.0	9.0	1.0	1.0	<0.01	<0.01	
6	9.0	10.0	1.0	1.0	<0.01	<0.01	
7	10.0	11.0	1.0	1.0	<0.01	<0.01	
8	11.0	12.0	1.0	1.0	<0.01	<0.01	
9	12.0	13.0	1.0	1.0	<0.01	<0.01	
3620	13.0	14.0	1.0	1.0	<0.01	<0.01	
1	14.0	15.0	1.0	1.0	<0.01	<0.01	
2	15.0	16.0	1.0	1.0	<0.01	<0.01	
3	16.0	17.0	1.0	1.0	1.76	0.08	
4	17.0	18.0	1.0	1.0	0.45	0.02	
5	18.0	19.0	1.0	1.0	1.06	0.05	
6	19.0	20.0	1.0	1.0	0.28	0.01	
7	20.0	21.0	1.0	1.0	0.50	0.03	16-27m 11m @ 0.67% WO_3
8	21.0	22.0	1.0	1.0	<0.01	<0.01	
9	22.0	23.0	1.0	1.0	0.76	0.04	
3630	23.0	24.0	1.0	1.0	0.72	0.04	
1	24.0	25.0	1.0	1.0	1.06	0.05	
2	25.0	26.0	1.0	1.0	0.52	0.03	
3	26.0	27.0	1.0	1.0	0.32	0.01	
3634	27.0	28.0	1.0	1.0	<0.01	<0.01	

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/2

0.00 - 5.12 PYROXENE GARNET SKARN

A disturbed unit of pyroxene garnet hornfels with some banding apparant in the first metre.

Scheelite is present throughout, mainly sub grade, generally associated with the garnet rich areas.

bedding 58° LCA at 1.00m

5.12 - 8.53 BIOTITE PYROXENE HORNFELS

This unit is dominantly a pyroxene hornfels with minor amounts of biotite present in some bands. Trace garnet is present in the pyroxene rich bands.

bedding is at 41° LCA at 6.53m.

8.53 - 15.95 BANDED FOOTWALL BEDS

A banded unit of biotite pyroxene garnet calcite hornfels in which the calcite bands are dominant.

Biotite is of secondary importance and lesser amounts of pyroxene and garnet are also present.

Scheelite (sub grade) is associated with the garnet rich areas.

bedding is at 76° LCA at about 10.0m
76° LCA at 11.7m
33° LCA at 13.36m
54° LCA at 15.51m.

15.95 - 26.55 MINERALISED BANDED FOOTWALL BEDS

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

Scheelite mineralisation is present throughout with the majority of the mineralisation ore grade except between 21.0 - 22.0m and below 26.0m.

bedding is at 67° LCA at 18.20m
72° LCA at 20.90m
63° LCA at 24.77m
64° LCA at 26.00m

26.55 - 30.53 DISTURBED BIOTITE PYROXENE HORNFELS

A disturbed brecciated and slightly silicified biotite pyroxene hornfels, typical of the unit adjacent to the Boundary Fault.

30.53 - 33.80 QUARTZITES

This unit is initially a typical in that it is course grained and sandy in texture. The last 60cm are more typical fine grained quartzites.

33.80 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H.) BH 425/2

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 3610	0.66		BH 1790	0.69		BH 1791	0.81		BH 1792	0.71		
3620	<0.01		1793	<0.01		1794	0.018		1795	0.012		
3630	0.72		1796	0.75		1797	0.91		1798	0.73		


DDH BH 425/2
15·0 - 29·50 m.


DDH BH 425/2
0·0 - 15·0 m


DDH BH 425/2
29·50 - 33·80 m
E.O.H

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. B425/1

PLANNING

Proposer: S.G. Brown — Depth: 18m

Location: 0 42 Cuddy - N 53 drive

Purpose of hole: To test BF1 lens

Co-ordinates: 10380 E 10425 N
Inclination: +22° Magnetic:
Bearing 090° Grid Target Depth:
Target: E N
Approved by: M.C. Rogers Date: 27/7/76

SURVEY

Survey Co-ords: E N
Survey bearing: 90°32' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 10 381.41 E 10 425.01 N
R.L. of Collar: 960.13 Inclination of Hole: +22°01'
Picked up by: J. Cook Date: 3/9/76

SUMMARY

Logged by: R. van den Bogaart
Results: 4 - 6m 2m @ 0.45% WO_3
7 - 9m 2m @ 0.58% WO_3
10.0 - 14.0m 4m @ 0.41% WO_3

DRILLING

Driller/Contractor: A.D.D.

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

Casing:	Size:	Nil			
	Depth:				
Core:	Size:	A 17			
	Depth:	17.40			

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

Extension: Nil
Reason for termination: Entered Banded Footwall Beds beyond BF1 lens.

Condition of hole on completion: Final depth: 17.40m
Casing: Left
Cemented: No
Bore hole survey: Multishot camera
Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 425/1

Survey method: Multishot camera
Final depth : 17.40m
Casing depth : Nil

Depth surveyed to: 17.40m
Date surveyed: 30/8/76
Surveyed by : V. Powell
Checked by : R. Bogaart

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
6	94°00'	66°00'	68°30'	+21°30'	2.20	2.27	5.11
12	93°30'	65°30'	68°15'	+21°45'	4.41	4.59	10.20
17.4	93°30'	65°30'	69°00'	+21°00'	6.37	6.68	14.78

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 425/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.0 - 2.40	2.40	2.15	90
5.40	3.00	3.01	100
8.40	3.00	2.92	97
11.40	3.00	2.96	99
14.40	3.00	2.96	99
17.40	3.00	2.91	97
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 425/1

Sample No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
BH								
3680	0.0	1.0	1.0	1.0	<0.01	<0.01		
1	1.0	2.0	1.0	1.0	0.13	<0.01		
2	2.0	3.0	1.0	1.0	<0.01	<0.01		
3	3.0	4.0	1.0	1.0	0.14	<0.01		
4	4.0	5.0	1.0	1.0	0.60	0.03	4 - 6m, 0.45% WO_3	2m @
5	5.0	6.0	1.0	1.0	0.30	0.01		
6	6.0	7.0	1.0	1.0	<0.01	<0.01		
7	7.0	8.0	1.0	1.0	0.70	0.04	7 - 9m, 0.58% WO_3	2m @
8	8.0	9.0	1.0	1.0	0.45	0.02		
9	9.0	10.0	1.0	1.0	<0.01	<0.01		
3690	10.0	11.0	1.0	1.0	0.35	0.02		
1	11.0	12.0	1.0	1.0	0.22	0.01	10.0 - 14.0m, 0.41% WO_3	4m @
2	12.0	13.0	1.0	1.0	0.76	0.04		
3	13.0	14.0	1.0	1.0	0.29	0.01		
4	14.0	15.0	1.0	1.0	0.12	<0.01		
5	15.0	16.0	1.0	1.0	0.06	<0.01		
6	16.0	17.0	1.0	1.0	0.34	0.01		
3697	17.0	17.40	0.40	0.40	<0.01	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 425/1

0.00 - 1.50 MARBLE

A typical grey-white bedded marble. The unit is devoid of any scheelite mineralisation.
Bedding is at ≃ 38° LCA @ 0.20m.

1.50 - 8.44 BANDED PYROXENE GARNET HORNFELS

A unit of banded pyroxene garnet hornfels with minor bands of biotite and pyroxene hornfels. Scheelite mineralisation is associated with pyroxene garnet rich areas, but is expected to be subgrade.
Bedding is at
≃ 36° LCA @ 2.20m
≃ 40° LCA @ 3.22m
≃ 40° LCA @ 6.05m
≃ 30° LCA @ 7.09m.

8.44 - 10.04 BIOTITE PYROXENE HORNFELS

A fine grained green-brown unit of biotite pyroxene hornfels. The unit is pyroxene rich between 8.44 - 9.10 and biotite rich between 9.10 - 10.04. The unit is devoid of any scheelite mineralisation.

10.04 - 14.46 PYROXENE GARNET HORNFELS

A fine grained greenish-brown unit of pyroxene garnet hornfels with variable carbonate content in the groundmass. The unit contains fine grains of pyrite, pyrrhotite and minor chalcopyrite. The unit contains scheelite throughout but is only expected to reach ore grade between 11.0 - 14.30m.

14.46 - 17.40 CALCITE PYROXENE GARNET HORNFELS

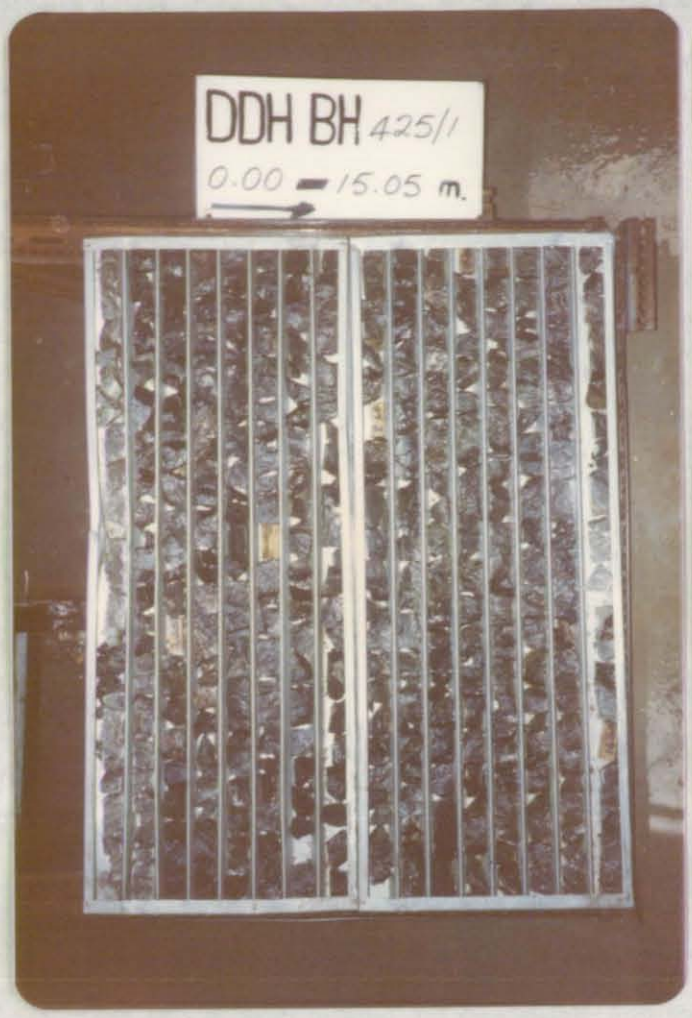
A unit consisting of calcite hornfels and pyroxene garnet hornfels in about equal proportions. The pyroxene garnet rich area (15.32 - 16.93m) has a high carbonate content. The unit contains subgrade scheelite mineralisation in the pyroxene garnet rich areas.
Bedding is at ≃ 46° LCA @ 14.46m.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. OBH 425/1

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 3680	<0.01		BH 1814	<0.01		BH 1815	0.01		BH 1816	.0035		
3690	0.35		1817	0.40		1818	0.44		1819	0.43		


DDH BH 425/1
0.00 — 15.05 m.


DDH BH 425/1
E.O.H
15.05 — 17.40 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 420/2

PLANNING

Proposer: S.G. Brown — Depth: 120m.

Location: L 43 Drive 'A' lens.

Purpose of hole: To test 'B' lens Fault Block E mineralisation, at 10420 N.

Co-ordinates: 10372 E 10420 N
Inclination: -81°
Bearing 090° Grid — Magnetic:
Target: E — Target Depth:
Approved by: M.C. Rogers. — N — Date:

SURVEY

Survey Co-ords: E — N
Survey bearing: ~~Suspect~~ 73°51' Grid — Magnetic:
Surveyed in by: — Date:
Actual Co-ords: 10 371.82 E 10 420.00 — N
R.L. of Collar: 103544 — Inclination of Hole: -80°22'
Picked up by: J. Cook — Date: 9/2/76

SUMMARY

Logged by: S. Lyncar Brown.
Results: only minor mineralization.

DRILLING

Driller/Contractor: A.D.D

Date commenced: — Date terminated: 27/1/76

Casing:	Size:	NQ	BQ		
	Depth:	3.0	126.4		
Core:	Size:				
	Depth:	BQ 126.4			

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

Extension: Nil

Reason for termination: Entered disturbed biotite pyroxene hornfels.

Condition of hole on completion: — Final depth:
Casing: 3.0m.
Cemented: No.

Bore hole survey: Yes, multishot camera.

Water:

Comments on drilling conditions:

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 420/2

Survey method :Multishot Camera
Final depth :126.4m
Casing depth :3m

Depth surveyed to : 126.0m
Date surveyed :27/1/76
Surveyed by :V.P.
Checked by :R.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
15.0	92° 45'	64° 45'	10° 22'	-79° 38'	8.85	1.13	2.46
30.0	91° 45'	63° 45'	10° 07'	-79° 53'	14.77	2.30	4.83
45.0	84° 00'	56° 00'	9° 00'	-81° 00'	44.32	3.59	6.91
60.0	85° 00'	57° 00'	9° 00'	-81° 00'	59.14	4.90	8.87
75.0	84° 00'	56° 00'	9° 00'	-81° 00'	73.96	6.21	10.82
90.0	87° 00'	59° 00'	9° 15'	-80° 45'	88.76	7.49 ~~7.16~~	12.88
105.0	84° 00'	56° 00'	9° 15'	-80° 45'	103.56	8.85	14.91
126.0	85° 00'	57° 00'	9° 45'	-80° 15'	124.27	10.87	12.85

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. R 420/2

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 22.0	ch/cgh/ ch/podded bh	3	-	carbonate @ 9.36, 10.52, 10.86. chlorite @ 17.26	58° @ 3.95. 62° @ 11.16. 53° @ 16.36	98	61	Excellent core recovery. Core incompetant @ 6.60, 7.54, 12.30, 13.0, and 13.95.
22.0 - 40.0	podded bh/ap/ disturbed bph/podded pgh	3	-	chlorite @ 24.60 quartz and sulphide @ 29.90	57° @ 24.90 40° @ 27.82	96	70	Good core recovery. Core leached @ 27.76.
40 - 67	podded pgh/ ap/podded pgh/bh/gh	3	-	chlorite and sulphide @ 57.30, 59.95 63.15. carbonate and chlorite 58.70	-	98	83	Excellent core recovery. Core leached between 51.70 - 52.0 and 53.50 - 53.80
67.0 - 90.6	gh/ch/ banded bpgh/banded bpgch	2	-	chlorite @ 82.44,100.10 chlorite and carbonate @ 86.90	61° @ 69.57 55° @ 74.13	99	72	Excellent core recovery. Major fracture @ 80.12. Fracture plane filled with 1cm thick carbonate seam.
90.6 - 109.0	banded bpgch/ banded pgch	2	-	Most joints contain minor chlorite	57° @ 102.28 60° @	98	82	Excellent core recovery. Core incompetant @

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 420/2

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
				and sulphide	107.0			93.33, 93.55, 93.77, Core badly broken @ 106.0m. Core leached @ 101.30. Major fracture @ 103.90
109 - 120.4 E.O.H.	banded pgch/ banded bpch/ No.2 Fault disturbed bph	4	-	chlorite and carbonate @ 112.20, 122.20 Chlorite and sulphide @ 114.60, 117.80 120.05	54° @ 114.0 27° @ 116.30	91	66	Bedding is variable within this unit. Major fracture @ 110.0. No.2 Fault plane filled with 2cm carbonate seam.

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. BH 420/2

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 4.0	4.0	3.68	92
7.0	3.0	3.0	100
10.0	3.0	2.97	99
13.0	3.0	2.94	98
16.0	3.0	2.64	88
18.3	2.3	2.78	121
22.0	3.7	3.55	96
25.0	3.0	2.86	95
27.2	2.2	2.28	104
30.25	3.05	2.99	98
33.4	3.15	3.10	98
37.0	3.6	3.20	89
40.0	3.0	2.86	95
43.0	3.0	2.95	98
46.0	3.0	2.85	95
49.0	3.0	3.00	100
52.0	3.0	2.96	99
54.3	2.3	2.30	100
58.0	3.7	3.65	99
61.0	3.0	2.94	98
64.0	3.0	2.98	99
67.0	3.0	2.91	97
70.0	3.0	2.97	99
73.0	3.0	2.97	99
76.0	3.0	2.94	98
79.0	3.0	2.93	98
82.0	3.0	3.02	101
85.0	3.0	2.90	97
88.0	3.0	3.04	101
90.6	2.6	2.56	98
93.6	3.0	3.02	101
96.75	3.15	3.00	95
99.9	3.15	3.04	97
103.0	3.1	3.14	101
106.0	3.0	2.97	99
109.0	3.0	2.93	98
112.0	3.0	3.03	101
115.0	3.0	2.89	96
118.0	3.0	2.96	99
121.1	3.1	2.94	95
EOH 126.4	5.3	4.04	76

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 420/2

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo		COMMENTS
BH								
2388	37.0	38.0	1.0	1.0	<0.01	<0.01		
89	38.0	39.0	1.0	1.0	0.14	<0.01		
90	39.0	40.0	1.0	1.0	0.25	<0.01		
1	40.0	41.0	1.0	1.0	0.24	<0.01		
2	41.0	42.0	1.0	1.0	0.11	<0.01		
3	42.0	43.0	1.0	1.0	0.11	<0.01		
4	43.0	44.0	1.0	1.0	0.03	<0.01		
5	44.0	45.0	1.0	1.0	0.04	<0.01		
6	45.0	46.0	1.0	1.0	0.04	<0.01		
7	46.0	47.0	1.0	1.0	<0.01	<0.01		
8	47.0	48.0	1.0	1.0	0.18	<0.01		
9	48.0	49.0	1.0	1.0	<0.01	<0.01		
2400	49.0	50.0	1.0	1.0	<0.01	<0.01		
2501	50.0	51.0	1.0	1.0	<0.01	<0.01		
2	51.0	52.0	1.0	1.0	<0.01	<0.01		
3	52.0	53.0	1.0	1.0	<0.01	<0.01		
4	53.0	54.0	1.0	1.0	<0.01	<0.01		
5	54.0	55.0	1.0	1.0	<0.01	<0.01		
6	55.0	56.0	1.0	1.0	<0.01	<0.01		
7	56.0	57.0	1.0	1.0	<0.01	<0.01		
8	57.0	58.0	1.0	1.0	<0.01	<0.01		
9	58.0	59.0	1.0	1.0	<0.01	<0.01		
10	59.0	60.0	1.0	1.0	<0.01	<0.01		
1	60.0	61.0	1.0	1.0	<0.01	<0.01		
2	61.0	62.0	1.0	1.0	<0.01	<0.01		
3	62.0	63.0	1.0	1.0	0.23	<0.01		
4	63.0	64.0	1.0	1.0	<0.01	<0.01		
5	64.0	65.0	1.0	1.0	<0.01	<0.01		
6	65.0	66.0	1.0	1.0	0.21	<0.01		
7	66.0	67.0	1.0	1.0	1.33	0.07		
2518	67.0	68.0	1.0	1.0	<0.01	<0.01		
9	68.0	69.0	1.0	1.0	<0.01	<0.01		
20	74.0	75.0	1.0	1.0	<0.01	<0.01		
1	75.0	76.0	1.0	1.0	<0.01	<0.01		
2	76.0	77.0	1.0	1.0	0.13	<0.01		
3	77.0	78.01	1.0	1.0	1.80	0.09		
4	78.0	79.0	1.0	1.0	0.44	0.03		
5	79.0	80.0	1.0	1.0	2.50	0.15		
6	80.0	81.0	1.0	1.0	0.22	0.01		
7	81.0	82.0	1.0	1.0	<0.01	<0.01		
8	82.0	83.0	1.0	1.0	<0.01	<0.01		
9	88.0	89.0	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 420/2

SAMPLE No.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
30	89.0	90.0	1.0	1.0	<0.01	<0.01		
2531	90.0	91.0	1.0	1.0	1.03	0.06		
2	91.0	92.0	1.0	1.0	0.09	<0.01		
3	92.0	93.0	1.0	1.0	0.03	<0.01		
4	93.0	94.0	1.0	1.0	<0.01	<0.01		
5	98.0	99.0	1.0	1.0	<0.01	<0.01		
6	99.0	100.0	1.0	1.0	0.52	0.05		
7	100.0	101.0	1.0	1.0	0.58	0.01		
8	101.0	102.0	1.0	1.0	0.06	<0.01		
9	102.0	103.0	1.0	1.0	0.18	<0.01		
40	103.0	104.0	1.0	1.0	0.27	<0.01		
1	104.0	105.0	1.0	1.0	0.32	<0.01		
2	105.0	106.0	1.0	1.0	0.40	<0.01		
3	106.0	107.0	1.0	1.0	<0.01	<0.01		
4	107.0	108.0	1.0	1.0	0.23	<0.01		
5	108.0	109.0	1.0	1.0	0.09	<0.01		
2546	109.0	110.0	1.0	1.0	0.13	<0.01		
7	110.0	111.0	1.0	1.0	0.46	0.01		
8	111.0	112.0	1.0	1.0	0.18	<0.01		
9	112.0	113.0	1.0	1.0	0.22	<0.01		
50	113.0	114.0	1.0	1.0	<0.01	<0.01		
2551	114.0	115.0	1.0	1.0	<0.01	<0.01		

SPECIFIC GRAVITY

Determined by:

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

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 420/2

0 - 7.05m	A LENS MARBLE

A dark grey-black well banded recrystalized marble with a well developed spotted texture.

Some minor areas of pyroxene and garnet enrichment occur in this unit.

Bedding is at 60^{o} LCA at 4.0m
68^{o} LCA at 6.0m.

7.05 - 10.42m	CALCITE GARNET HORNFELS

This unit consists of a light grey coloured recrystalized marble with about 50% of the core being composed of pyroxene and garnet.

Only trace scheelite is present in this unit.

10.42 - 17.55m	MARBLE

A dark grey black recrystalized marble with bedding apparant throughout most of the core, Some remobilisation of the marble is present especially in the last metre.

The last 30 cm of the core consists of pyroxene garnet skarn with trace scheelite and minor molybdenite.

Bedding is at 57^{o} LCA at 11.20m
48^{o} LCA at 15.50m.

17.55 - 25.42m	PODDED BIOTITE HORNFELS

A fine grained brown purple biotite hornfels with an irregular streaky appearance throughout. Podding is present especially in the first 4 metres. Some minor bands of pyroxene rich material are present in the last metre.

25.42 - 27.48m	APLITE

A pinkish grey aplite with a high feldspar content. A small amount of biotite hornfels is present between 26.92 - 27.09m.

27.48 - 37.01m	DISTURBED BIOTITE PYROXENE HORNFELS

Dominantly a fine grained black purple biotite hornfels with irregular patches of lighter green pyroxene rich material.

Some very minor podding is apparant in this unit.

37.01 - 52.06m	PODDED PYROXENE GARNET HORNFELS

A very irregular unit of podded pyroxene garnet hornfels light grey green - honey brown in colour with large pods of calcite present throughout.

Some minor biotite rich zones are present between 49.5 - 50.5m.

Scheelite is present throughout in varying amounts mainly as a scattering of moderate sized crystals.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 420/2

None of this unit is ore grade and the first metre contains only trace scheelite.

52.06 - 55.88m APLITE

A brown red aplite with a small (25cm) inclusion of podded pyroxene garnet hornfels present between 53.60 - 53.85m.

55.88 - 59.23m PODDED PYROXENE GARNET HORNFELS

As above. Some minor banding is present in this unit at 43° LCA at 59.20 metres.

59.23 - 61.18m BIOTITE HORNFELS

A small unit of fine grained purple black biotite hornfels.

61.18 - 67.16m GARNET SKARN

A finely crystalline garnet skarn with minor calcite and pyeoxene present throughout.

Minor scheelite is present throughout this unit but only over the last 1.12 metres does it become ore grade.

67.16 - 75.39m MARBLE

A grey - dark grey coloured recrystalized marble with some banding present in this unit.

Some areas show signs of moderate disturbance and minor garnets are present in some areas.

No scheelite is present in this unit.

75.39 - 81.28m BANDED BIOTITE PYROXENE GARNET HORNFELS

This unit consists of bands of garnet skarn with lesser interveaning bands of biotite pyroxene hornfels.

Scheelite is present within the garnet bands especially between 76.85 and 81.28 metres.

A minor fracture is apparant at 16° LCA at 80.11m.

81.29 - 98.53m BANDED BIOTITE PYROXENE GARNET CALCITE HORNFELS

This unit contains only minor garnet bands except between 89.60 - 91.56 metres where they dominate. There is moderate scheelite present in this zone. Between 93.22 - 93.60 metres there is a zone of brecciated calcite bands.

Bedding is present at 60° LCA at 84.5m,
60° LCA at 89.26m,
61° LCA at 94.24m.

Within this unit the pyroxene bands dominate between 81.29 - 89.18 metres after which calcite is the most important constituent.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No: BH 420/2

98.53 - 112.83m BANDED PYROXENE GARNET CALCITE HORNFELS

Essentially this is a pyroxene garnet unit with minor bands of calcite and lesser biotite.

Finely disseminated scheelite is present throughout this unit and in some areas probably reaches ore grade.

Banding is at 58° LCA at 102.3m,
62° LCA at 107.0m,
53° LCA at 111.0m.

112.83 - 121.54m BANDED BIOTITE PYROXENE CALCITE HORNFELS

This unit contains only very minor garnet and only trace scheelite below about 115m the bedding becomes quite steep and disturbed.

Bedding is at 52° LCA at 113m,
46° LCA at 116m,
30° LCA at 116.5m,
31° LCA at 118.2m.

Below 118.3 metres the bedding becomes very irregular.

121.54 - 121.59 No. 2 FAULT

A small zone of calcite infilling at 15° LCA within brecciated biotite hornfels.

121.59 - 125.40 DISTURBED BIOTITE PYROXENE HORNFELS

A dark brown - grey biotite pyroxene hornfels initially broken and sheared but much more normal below about 122.0 metres.

125.40m E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. B 420/2

LAB.	K.I.S.		LAB.	KIS Check		LAB. AMDEL			LAB.	A.C.S.L.		
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 2390	0.25	<0.01	BH 3122	0.33		BH 3123	0.42		BH 3124	0.36		
BH 2400	<0.01	<0.01	BH 3125	<0.01		BH 3126	0.030		BH 3127	0.031		
BH 2510	<0.01	<0.01	BH 3128	<0.01		BH 3129	0.017		BH 3130	0.011		
BH 2520	<0.01	<0.01	BH 3131	<0.01		BH 3132	<0.01		BH 3133	<0.01		
BH 2530	<0.01	<0.01	BH 3134	0.04		BH 3135	0.084		BH 3136	0.06		
BH 2540	0.27	<0.01	BH 3137	0.35		BH 3138	0.36		BH 3139	0.35		
BH 2550	<0.01	<0.01	BH 3140	<0.01		BH 3141	0.006		BH 3142	0.015		


DDH BH 420/2
000 - 1494 m.

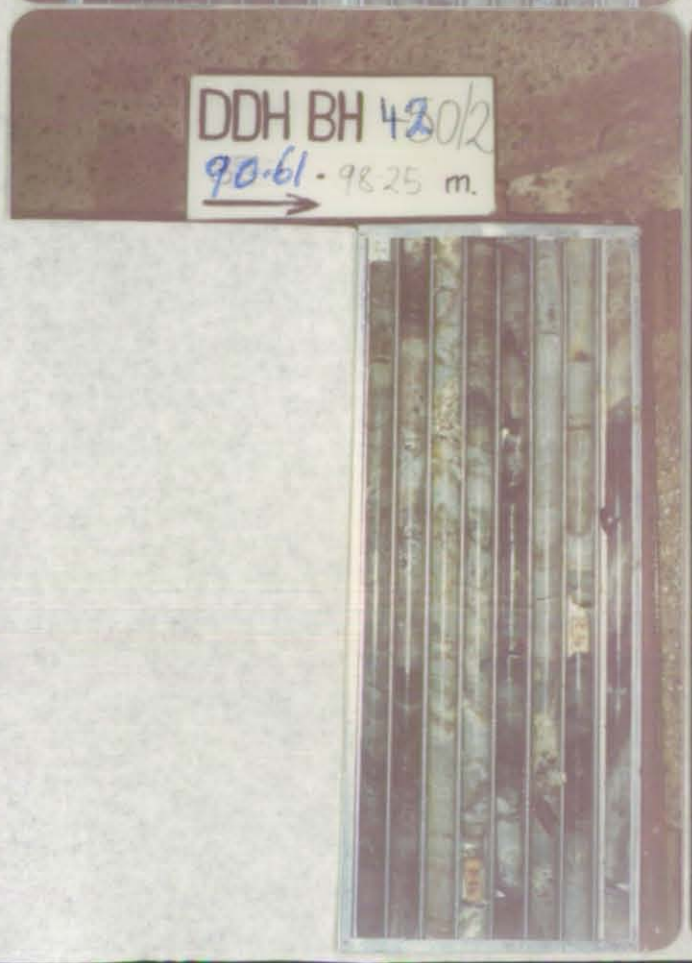

DDH BH 420/2
1494 - 3020 m.


DDH BH 420/2
3020 - 443 m.


DDH BH 420/2
443 - 605 m.


DDH BH 420/2
605 - 75.70 m.


DDH BH 420/2
75.70 - 90.61 m.


DDH BH 420/2
90.61 - 98.25 m.


DDH BH 480/2
98.25 - 113.1 m.


DDH BH 420/2
1131 - 1264m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 420/1

PLANNING

Proposer: S.G. Brown — Depth: 120m

Location: L 43 Drive 'A' lens.

Purpose of hole: To test 'B' lens Fault Block mineralisation at 10420 N.

Co-ordinates: 10372 E 10420 N
Inclination: -66° Magnetic:
Bearing 090° Grid Target Depth:
Target: E N
Approved by: M.C. Rogers. Date:

SURVEY

Survey Co-ords: E N
Survey bearing: 88°35' Grid Magnetic:
Surveyed in by: Date:
Actual Co-ords: 10 372.02 E 10 420.05 N
R.L. of Collar: 1035.48 Inclination of Hole: -65°29'
Picked up by: J. Cook. Date: 9/2/76

SUMMARY

Logged by: S.G. Brown
Results: 52 - 54m, 2m @ 0.44% WO_3
63 - 65m, 2m @ 0.46% WO_3
76 - 77m, 1m @ 1.82% WO_3

DRILLING

Driller/Contractor: A.D.D.

Date commenced: 28/1/76 Date terminated: 5/2/76

Casing:	Size:	NQ	
	Depth:	3.0	
Core:	Size:	NQ	BQ
	Depth:	3.0	122.4

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

Extension: Nil
Reason for termination: Passed into quartzites.

Condition of hole on completion: Final depth:
Casing: 3.0m
Cemented: No.
Bore hole survey: Yes, Multishot camera
Water: No

Comments on drilling conditions: Good.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 420/1

Survey method : Multishot camera
Final depth : 122.4
Casing depth : 3m

Depth surveyed to : 120m
Date surveyed : 5/2/76
Surveyed by : V.P.
Checked by : R.B.

Depth (m)	Bearing		Inclination		True vertical Depth (m)	Co-ordinates	
	Grid	Mag.	Read	Corrected		N	E
15.0	89° 00'	61° 00'	25° 15'	-64° 45'	13.59	3.07	5.58
30.0	89° 00'	61° 00'	24° 15'	-65° 45'	27.23	6.06	11.06
45.0	82° 45'	54° 45'	22° 15'	-67° 45'	41.07	9.30	16.87
60.0	84° 00'	56° 00'	22° 45'	-67° 15'	54.94	12.48	20.62
75.0	83° 00'	55° 00'	22° 22'	-67° 38'	68.79	15.77	25.33
90.0	83° 00'	55° 00'	22° 15'	-67° 45'	82.67	19.06	29.98
105.0	82° 15'	54° 15'	22° 15'	-67° 45'	96.55	22.39	34.58
120.0	81° 30'	53° 30'	22° 00'	-68° 00'	110.44	25.82	39.05

REMARKS:

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 420/1

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 20.4m	ch/podded bh	3	-	carbonate and chlorite @ 1.65, 6.4. chlorite @ 18.67 chlorite and sulphide @ 19.46, 20.10	67° @ 5.4 58° @ 9.60 64° @ 16.72 57° @ 20.3	92	57	Core lost between 11.4 - 14.4. Core leached @ 11.0 Core incompetant @ 11.95, 12.10. 12.50. Core badly broken @ 8.4, 11.4, 13.70
20.4 - 37.0	podded bh/ disturbed bph	3	-	chlorite and sulphide @ 26.20, 35.48 chlorite @ 30.20	50° @ 21.45 64° @ 32.4 35° @ 36.25	98	78	Excellent core recovery.
37.0 - 53.4	disturbed bph/podded pgh/ap/ podded pgh/gh	3	-	chlorite and sulphide @ 32.38, 40.16 carbonate @ 42.27	-	98	77	Excellent core recovery.
53.4 - 74.4	gph/ch/ banded bph/pgh/ disturbed pgch	2	-	chlorite and carbonate @ 59.40, 60.44 chlorite and sulphide @ 68.75	57° @ 61.75 58° @ 71.35 58° @ 73.0	99	77	Excellent core recovery.

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 420/1

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LACC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
53.4 - 74.4	gph/ch/ banded bph/pgh/ disturbed pgch	2	-	chlorite and carbonate @ 59.40 - 60.44 chlorite @ 67.0 chlorite and sulphide @ 68.75	57° @ 61.75 58° @ 71.35 58° @ 73.0	99	77	Excellent core recovery.
74.4 - 89.4	disturbed pgch/ disturbed bph	2	-	chlorite @ 83.34 chlorite and sulphide @ 84.0 chlorite and carbonate @ 86.60, 88.53	37° @ 81.60	99	86	Excellent core recovery.
89.4 - 104.4	disturbed bph/ fault zone q	7	-	chlorite and sulphide @ 90.86, 92.60, 95.70. chlorite and carbonate @ 93.58,96.70, 103.05,104.10	-	95	56	Core lost between 98.4 - 101.4. Fault @ 90.30. carbonat and chlorite zone thick on fault plane. Major fracture @ 89.4. Core badly broken between 98.80 - 100.4. Slickenslides on joints @ 103.10

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No: BH 420/1

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
104.4 - 122.4 E.O.H.	q/Val/ fault zone/q/Vol	5	-	chlorite @ 104.55,121.30 sulphide and chlorite @ 113.80	-	92	62	Core lost between 116.4 - 119.4 Major fracture @ 105.0. Slickenslides on joints @ 21.08. Volcanics severely weathered and have altered to chlorite. eg. between 106.70 - 108.0 and 114.80 - 118.10

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No.BH 420/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 2.4	2.4	2.27	95
5.4	3.0	2.92	97
8.4	3.0	2.73	91
11.4	3.0	2.72	91
14.4	3.0	2.20	73
17.4	3.0	3.0	100
20.4	3.0	2.92	97
23.4	3.0	2.95	98
26.4	3.0	2.93	98
29.4	3.0	2.97	99
31.4	2.0	1.92	96
34.0	2.6	2.50	96
37.0	3.0	3.03	101
40.0	3.0	2.87	96
41.3	1.3	1.33	102
44.4	3.1	3.15	102
47.4	3.0	2.85	95
50.4	3.0	2.96	99
53.4	3.0	2.98	99
56.4	3.0	3.05	102
59.4	3.0	2.97	99
62.3	2.9	2.73	94
65.4	3.1	3.08	99
68.4	3.0	2.98	99
71.4	3.0	2.96	99
74.4	3.0	2.98	99
77.4	3.0	3.03	101
80.4	3.0	2.98	99
83.4	3.0	2.97	99
86.4	3.0	3.02	101
89.4	3.0	2.86	95
92.4	3.0	2.98	99
95.4	3.0	3.00	100
98.4	3.0	3.00	100
101.4	3.0	2.23	74
104.4	3.0	3.03	101
107.4	3.0	2.97	99
110.4	3.0	2.71	90
113.4	3.0	3.04	101
116.4	3.0	2.86	95
119.4	3.0	2.13	71
122.4	3.0	2.93	98
E.O.H.			

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 420/1

SAMPLE No.	DEPTH (METRES) From	To	Length	Length Recovered	ELEMENTS WO_3	Mo	COMMENTS
BH							
2552	39	40	1.0	1.0	<0.01	<0.01	
3	40	41	1.0	1.0	<0.01	<0.01	
4	41.	42	1.0	1.0	<0.01	<0.01	
5	42	43	1.0	1.0	<0.01	<0.01	
6	43	44	1.0	1.0	<0.01	<0.01	
7	44	45	1.0	1.0	<0.01	<0.01	
8	45	46	1.0	1.0	<0.01	<0.01	
9	46	47	1.0	1.0	<0.01	<0.01	
60	47	48	1.0	1.0	<0.01	<0.01	
1	48	49	1.0	1.0	<0.01	<0.01	
2	49	50	1.0	1.0	<0.01	<0.01	
3	50	51	1.0	1.0	<0.01	<0.01	
4	51	52	1.0	1.0	<0.01	<0.01	
5	52	53	1.0	1.0	0.49	0.04	52 - 54, 2m @ 0.44% WO_3
6	53	54	1.0	1.0	0.39	0.03	
2567	54	55	1.0	1.0	<0.01	<0.01	
2568	61	62	1.0	1.0	<0.01	<0.01	
9	62	63	1.0	1.0	0.31	0.02	
70	63	64	1.0	1.0	0.11	0.01	
1	64	65	1.0	1.0	0.47	0.03	63 - 65m, 2m @ 0.46% WO_3
2	65	66	1.0	1.0	0.45	0.04	
3	66	67	1.0	1.0	<0.01	<0.01	
4	67	68	1.0	1.0	<0.01	<0.01	
5	68	69	1.0	1.0	<0.01	<0.01	
6	69	70	1.0	1.0	<0.01	<0.01	
7	70	71	1.0	1.0	<0.01	<0.01	
8	71	72	1.0	1.0	<0.01	<0.01	
9	72	73	1.0	1.0	<0.01	<0.01	
80	73	74	1.0	1.0	<0.01	<0.01	
1	74	75	1.0	1.0	<0.01	<0.01	
2	75	76	1.0	1.0	0.20	0.06	
2583	76	77	1.0	1.0	1.82	0.09	76 - 77m, 1m @ 1.82% WO_3
2584	77	78	1.0	1.0	<0.01	<0.01	
5	78	79	1.0	1.0	<0.01	<0.01	
6	79	80	1.0	1.0	<0.01	<0.01	
7	80	81	1.0	1.0	<0.01	<0.01	
8	81	82	1.0	1.0	<0.01	<0.01	
9	82	83	1.0	1.0	<0.01	<0.01	
2590	83	84	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. BH 420/1

0 - 17.56m	'A' LENS MARBLE

A dark grey - black generally bedded marble with some areas of remobilization present throughout.

The last 50cm of the core are pyroxene garnet hornfels with trace scheelite.

Bedding is at 62^{o} LCA at 3.10m,
70^{o} LCA at 7.40m,
55^{o} LCA at 15.70m.

17.56 - 21.69m	PODDED BIOTITE HORNFELS

A disturbed unit of brown purple biotite hornfels with initially an irregular streaky appearance.

Below about 19.0 metres the core becomes more banded with fine pyroxene bands but some podding is still evident.

21.69 - 40.51m	DISTURBED BIOTITE PYROXENE HORNFELS

Dominantly a fine grained black purple biotite hornfels with irregular hazy patches of lighter green pyroxene rich material. Some minor fragments or pods are present throughout.

Between 24.13 - 25.59 m there is a small band of pinkish grey aplite.

40.51 - 44.13m	PODDED PYROXENE GARNET HORNFELS

Initially this unit contains quite large amounts of podded biotite hornfels, but below 42.11m the unit becomes a typical green - brown pyroxene garnet hornfels with minor amounts of scheelite present as a scattering of large grains.

44.13 - 47.67m	APLITE

A brown red aplite with moderate amounts of biotite present throughout.

47.67 - 51.32m	PODDED PYROXENE GARNET HORNFELS

This unit contains quite large amounts of biotite hornfels especially over the last metre or so.

This zone is much more disrupted than usual for this rock type.

51.32 - 53.47m	GARNET PYROXENE SKARN

Initially this unit is pyroxene rich but below about 52.40 metres garnet becomes dominant. Minor calcite occurs both in the intergranular spaces and as small pods.

Minor scheelite occurs throughout except over the last metre or so where ore grade scheelite is present as finely disseminated crystals.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 420/1

53.47 - 61.59m MARBLE

A dark grey coloured recrystalized marble, apparamtly quite disturbed as there appears to be no bedding visible in this unit. Veinlets of remobilised calcite are present throughout.

61.59 - 62.30m BANDED BIOTITE PYROXENE HORNFELS

An extreamely finely banded unit of biotite pyroxene hornfels with minor amounts of garnet present as irregular blobs.

Bedding is at 58° LCA at 62.07 metres.

62.30 - 66.51m PYROXENE GARNET HORNFELS

A banded unit of pyroxene garnet hornfels with lesser bands of calcite present throughout. Scheelite is present in the garnet rich areas but probably averages sub ore grade over all.

Bedding is disturbed and irregular throughout. ∝ 64° LCA at 63.7 metres.

66.51 - 74.4m BANDED BIOTITE PYROXENE CALCITE GARNET HORNFELS

A disturbed unit of banded mine series in which the calcite is the dominant member.

Minor scheelite is present at 71.55 metres, the rest of the unit containing only trace amounts.

The bedding occurs at irregular angles to the core axis. 44° LCA at 69.3m,
52° LCA at 71.36m,
55° LCA at 74.4m.

74.40 - 78.43m DISTURBED PYROXENE GARNET CALCITE HORNFELS

A unit of pyroxene garnet hornfels with large irregular pods of calcite present throughout. Large crystals of pyroxene are present in some parts of this unit.

Sub ore grade scheelite is present throughout.

78.43 - 98.78m DISTURBED BIOTITE PYROXENE HORNFELS

A very disturbed unit of biotite pyroxene hornfels with minor amounts of garnet present in the first 4 metres. Some minor scheelite is associated with the garnet rich zones.

The unit was possibly a bedded unit that has been disrupted so that the ground mass contains irregular pods and swirls of more pyroxene rich material.

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 420/1

Fractures are present at 88.53m at 24° LCA and at 89.44m at∝15° LCA.

98.78 - 100.37m FAULT ZONE

A zone of very broken and sheared biotite pyroxene hornfels.

100.37 - 104.65m QUARTZITES

An extreamely broken and disturbed unit of dark grey spotted quartzites with minor amounts of grey black siltstones present in it.
Pyrite is visible along the joints.

104.65 - 107.91m VOLCANICS

A light grey crystalline rock type in which the dominant mineral appears to be amphiboles.
The last 50cm of this unit are sheared and broken.

107.91 - 108.11m FAULT ZONE

A small fault zone containing very broken quartzites and shales.

108.11 - 114.98m QUARTZITES

A disturbed unit of grey quartzites with irregular bands and whisps of dark grey siltstones present throughout.
The last 70cm of this unit is heavily sheared with jointing at ∝24° LCA.

114.98 - 122.4 VOLCANICS

A grey green well crystallized volcanics.
Initially this unit is extremely sheared and weathered but below 118.18m the core is fresh.

122.4 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. XX B 420/1

LAB.	K.I.S.		LAB. KIS Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 2555	<0.01	<0.01	BH 3170	<0.01		BH 3171	0.026		BH 3172	0.03		
BH 2565	0.49	0.04	BH 3173	0.62		BH 3174	0.66		BH 3175	0.68		
BH 2575	<0.01	<0.01	BH 3176	0.02		BH 3177	0.040		BH 3178	0.046		
BH 2585	<0.01	<0.01	BH 3179	<0.01		BH 3180	0.036		BH 3181	0.033		

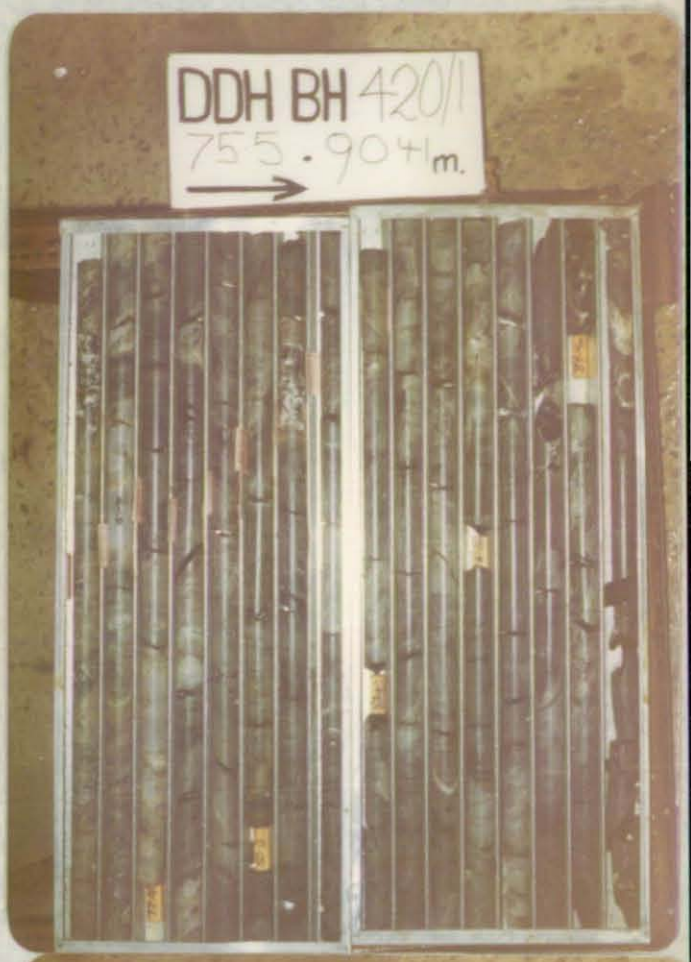

DDH BH 420/1
0·00 - 15·4 m.


DDH BH 420/1
15·4 - 30·2 m.

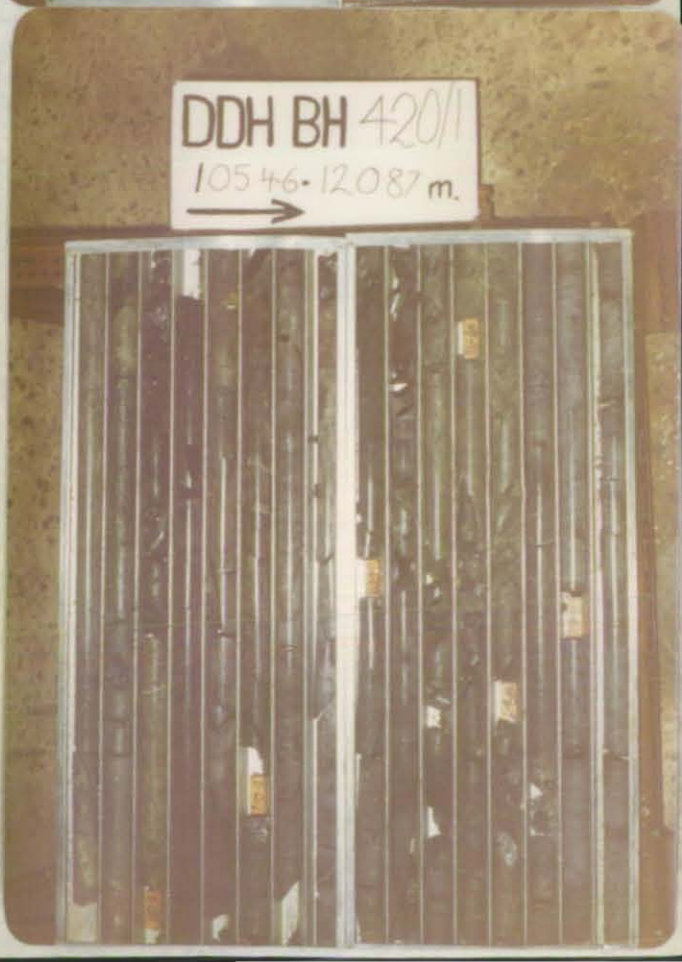

DDH BH 420/1
30·2 - 45·4 m.


DDH BH 420/1
45·4 - 60·4 m.


DDH BH 420/1
604 - 755 m.


DDH BH 420/1
755 - 904 1 m.


DDH BH 420/1
904 1 - 1054 6 m.


DDH BH 420/1
1054 6 - 1208 7 m.


DDH BH 420/1
RQD 87-122.40 m.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. No. BH 415/1

PLANNING

Proposer: S.G Brown. Depth: 15m.

Location: H.47 drive 'A' lens.

Purpose of hole: To define 'A' lens adjacent to fault.

Co-ordinates: 10379.0 E 10415.0 N

Inclination: +3° Magnetic

Bearing: 090° Grid Target depth:

Target: E N

Approved by: M.C. Rogers. Date: 21/7/75

SURVEY

Survey Co-ords: E N

Survey bearing: 90°30' Grid Magnetic

Surveyed in by: Date:

Actual Co-ords: 10378.7 E 10416.2 N

R.L. of collar: 1038.2 Inclination of hole: +03°40'

Picked up by : R.J.H. Date: 30/7/75

SUMMARY

Logged by : S.G. Brown.

Results: drilled through Boundary fault at 11.98m.

DRILLING

Driller/Contractor: GEOPEKO

Date commenced: 21/7/75 Date terminated: 28/7/75

Casing:	Size :	Nil			
	Depth :				
Core:	Size :	E.17			
	Depth :	16.32			

Wedge Runoff:

Wedge placed: Nil Depth:

Proposed by : Approved by:

Reason:

Extension: Nil

Reason for termination: intersected quartzites east of Boundary fault. Final depth: 16.32m.

Condition of hole on completion:

Casing : Nil

Cemented : No.

Bore hole survey: No.

Water: No.

Comments on drilling conditions: Good.

GEOPEKO LIMITED - Bold Head Mine (K.I.)

SUMMARY BORE HOLE SURVEY DATA

D.D.H. No. BH 415/1

Survey method : -----
Final depth : 16.32m.
Casing depth : -----

Depth surveyed to : -----
Date surveyed : -----
Surveyed by : -----
Checked by : R. Bogaart.

DEPTH	Bearing		Inclination		True Vertical Depth	Co-oridinates	
	Grid	Mag.	Read	Corrected		E	N
			HOLE NOT SURVEYED APPROXIMATE INCLINATION 3°40'				

REMARKS

GEOPEKO LIMITED - KING ISLAND

SUMMARY STRUCTURAL DATA

D.D.H. No. BH 415/1

Depth Interval (metres)	Rock Type	Fractures /m.	Joint Angle (wrt LAOC)	Joint Filling	Bedding Angle (w.r.t. L.A.O.C.)	% Core Recovery	R.Q.D.	Remarks (weathering)
0 - 10.60	ch/ Disturbed ch/g skarn/ breccia zone/ ph	15^{+}		Carbonate & chlorite @ 0.40, & 1.17		56	16	Core lost between 3.52 - 5.07 6.58 - 10.60. Core is badly broken throughout. Rubble occurs @ 2.30 2.96 - 3.62 6.54 - 6.68 8.18 - 10.36 Core is severly leached between interval 3.52 - 10.36.
10.60 - 16.32	ph/ q	15+		Carbonate @ 14.07. Chlorite @ 15.68 Chlorite & sulphides @ 11.59 11.73 Sulphides are fairly common along the joints in quartzites.		99	31	Excellent core recovery. Core badly broken throughout. Rubble occurs @ 12.00, 12.50 15.76 - 15.98 Core is mildly leached in the interval 10.60 - 12.30

FURTHER DATA & REMARKS

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

GEOPEKO LIMITED - King Island

CORE RECOVERY

D.D.H. No. 415/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0 - 1.97	1.97	1.92	97
3.52	1.55	0.97	63
5.07	1.55	0.58	37
6.58	1.51	1.18	78
8.18	1.60	0.36	23
9.40	1.22	0.56	46
10.60	1.20	0.36	30
11.98	1.38	1.43	104
12.54	0.56	0.52	93
13.70	1.16	1.09	94
15.18	1.48	1.50	101
15.86	0.68	0.69	101
16.32	0.46	0.45	98
E.O.H.			

GEOPEKO LIMITED - Bold Head Mine (K.I.)

ASSAY DATA

D.D.H. No. BH 415/1

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. BH415/1

0 - 1.44m	MARBLE A dark grey disturbed marble with large numbers of black spots and irregular bands present in it. This unit is unmineralized.
1.44m - 5.52m	DISTURBED MARBLE This unit consists of a light grey-brown marble with irregular amounts of pyroxene and garnet present throughout. Some of this unit shows banding reflecting original bedding at 51° L.C.A. at 2.10m.
5.52m - about 7.0m	GARNET SKARN Only 1 metre of core has been recovered in this unit. Initially the core is fresh and is a typical garnet pyroxene skarn with moderate to good scheelite. Below 6.02m the core is leached and broken with only the honey brown garnets remaining. No scheelite is visible in the leached portion.
About 7.0m - 10.34m	BRECCIA ZONE In this zone there is only 1.65m of core ~~was~~ recovered over a 3.34m interval. Various rock types are present in this zone with the last metre consisting mainly of sand and rubble. Rock types present are lower volcanics, garnet pyroxene hornfels, and biotite hornfels. Only trace scheelite is present in this area.
10.34 - 11.98m	PYROXENE HORNFELS This unit is essentially a fine grained pyroxene hornfels with minor areas rich in biotite or garnet. The core is quite disturbed especially towards the Boundary fault.
11.98m - 16.32m	QUARTZITES A fine grained grey siliceous rock type with minor darker grey siltstone bands present in it. Some areas show a curdled effect due to the high silica content. Spotting is apparent throughout and pyrite is visible on the joint planes.
E.O.H.	


DDH 1415/1
0.00 - 16.32 m.
E.O.H.

GEOPEKO LIMITED - KING ISLAND

LOG OF D.D.H. NO. BH 410/1

PLANNING

Proposer: S.G. Brown — Depth: 20m

Location: N 53 drive

Purpose of hole: To test extension of aplite in N 53

Co-ordinates: 10 372 E 10 407 N
Inclination: +2°
Bearing 172° Grid — Magnetic:
Target: E — Target Depth:
Approved by: M.C. Rogers — N — Date: 13/8/76

SURVEY

Survey Co-ords: E — N
Survey bearing: 172°35' Grid — Magnetic:
Surveyed in by: — Date:
Actual Co-ords: 10 371.84 E 10 407.01 N
R.L. of Collar: 959.24 — Inclination of Hole: +3°37'
Picked up by: J. Cook — Date: 3/9/76

SUMMARY

Logged by: R. van den Bogaart
Results: No ore intersected

DRILLING

Driller/Contractor: Geopeko

Date commenced: 17/8/76 — Date terminated: 20/8/76

Casing: Size: Nil
Depth:
Core: Size: E
Depth: 17 20.92

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

Extension: Nil
Reason for termination: Hole entered pyroxene garnet hornfels

Condition of hole on completion: — Final depth: 20.92
Casing: Nil
Cemented: No
Bore hole survey: No
Water: Yes

Comments on drilling conditions: Bad.

GEOPEKO LIMITED - KING ISLAND

SUMMARY BORE HOLE SURVEY DATA

D.D.H No. BH 410/1

Survey method:
Final depth :
Casing depth :

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

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

REMARKS:

GEOPEKO LIMITED - KING ISLAND

CORE RECOVERY

D.D.H. No. BH 410/1

INTERVAL (m)	LENGTH (m)	LENGTH RECOVERED (m)	% CORE RECOVERY
0.00 - 0.67	0.67	0.48	72
1.12	0.45	0.53	118
2.17	1.05	0.63	60
2.75	0.58	0.16	28
3.11	0.36	0.47	131
3.18	0.07	0.14	200
3.57	0.39	0.47	121
3.83	0.26	0.27	104
4.04	0.21	0.15	71
4.28	0.24	0.11	46
4.33	0.05	0.08	160
4.64	0.31	0.46	148
4.75	0.11	0.04	36
5.24	0.49	0.42	86
5.46	0.22	0.22	100
5.80	0.24	0.28	117
6.08	0.38	0.40	105
6.36	0.28	0.26	93
6.65	0.29	0.19	66
7.09	0.44	0.34	77
7.48	0.39	0.33	85
7.88	0.40	0.35	88
8.70	0.82	0.34	41
10.20	1.50	1.06	71
11.67	1.47	1.02	69
12.73	1.06	0.91	86
14.12	1.39	1.34	96
15.75	1.63	1.65	101
17.82	2.07	2.07	100
20.92	3.10	3.06	99
E.O.H.			

NB Core consists mainly of rubble, hence core recovery measurements are unreliable.

GEOPEKO LIMITED - BOLD HEAD MINE

ASSAY DATA

D.D.H. No. BH 410/1

Sample No. BH	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Recovered	WO_3	Mo		
3815	0	1	1	0.85	0.15	0.46		
6	1	2	1	0.64	0.15	0.08		
3817	2	3	1	0.57	0.01	0.01		

SPECIFIC GRAVITY

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

Determined by:

GEOPEKO LIMITED - KING ISLAND

GEOLOGICAL LOG

D.D.H. No. BH 410/1

0.0 - 2.90 MINERALISED MARBLE

A coarse grained, greyish white, recrystallised marble containing pyroxene, garnet abundant pyrite and minor pyrrhotite and molybdenite. Large pyrite crystals are very typical of this unit. The unit has moderately leached adjacent to the aplite described below. The unit contains medium grade scheelite except for the last 50cm which is barren.

2.40 - 11.95 APLITE

A fine grained greyish-white to creamy aplite consisting mainly of quartz with minor feldspar and biotite. The whole unit contains carbonate in the groundmass which may reflect digestion of the marble which it has intruded. The core shows abundant sericite and is severely leached between 7.80 - 11.95m. The whole unit is badly broken throughout and consists mainly of rubble. Chlorite is abundant along the joints. The unit is devoid of any scheelite mineralisation.

11.95 - 20.92 PODDED PYROXENE GARNET HORNFELS

A disturbed unit of pyroxene garnet hornfels with irregular amounts of biotite and calcite. The unit contains numerous angular and subangular pods mainly calcite surrounded by a rim of grossularite. The first 4 metres of this unit is rich in grossularite, after which the core becomes richer in pyroxene and calcite. The unit contains minor grains of scheelite associated with the garnet rich areas, but is expected to be subgrade.

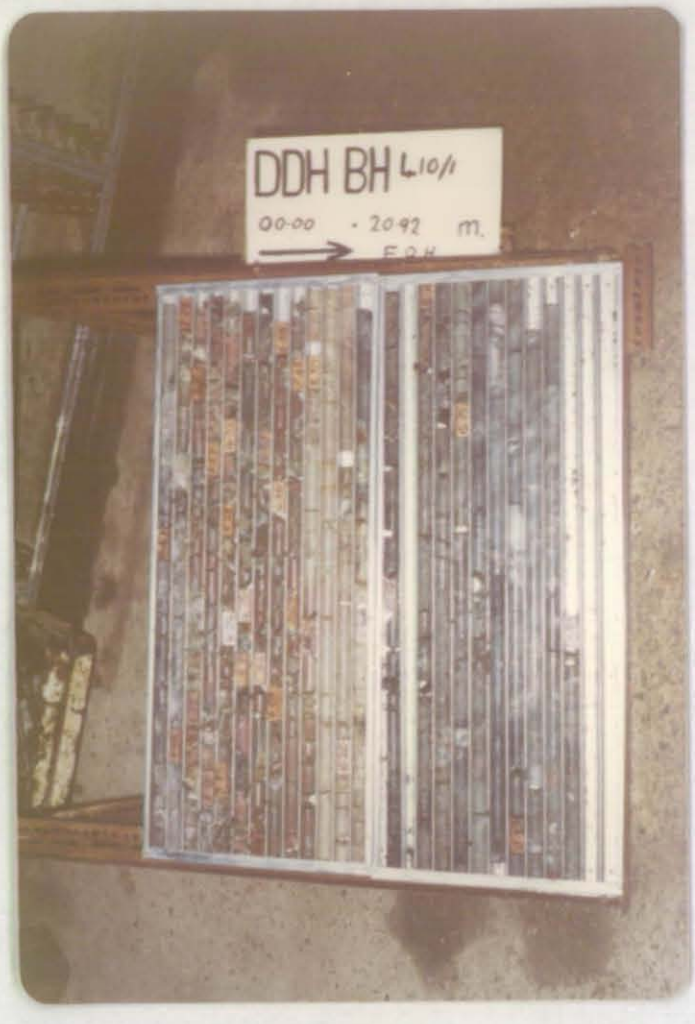
20.92 E.O.H.

GEOPEKO LIMITED - KING ISLAND

CHECK ASSAY DATA

D.D.H. BH 410/1

LAB.	K.I.S.		LAB. K.I.S. Check			LAB. AMDEL			LAB. A.C.S.L.			
Original Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	Check Sample No.	WO_3	Mo	
BH 3815	0.15		BH 2160	0.14		BH 2161	0.19		BH 2162	0.15		


DDH BH L10/1
00-00 - 20.92 m.
E.O.H

(Each Sheet must be Dated and Initialled)