10.97 Percussion
46.33 Rotary Core

+ 4.66 m

220 230.04 E
564 255.13 N

DDH 410

F. 52 Triple Tube Vertical

No. 2 Orebody
Ventilation Shaft

No Core
0 - 10.97

10.97 - 14.00
Fresh grey fine grained Quartzite
Mod. fracture
h = 1 W = 1

100

330 11.7

100

14.00 - 16.15
Severe fracture
(Assume 100 joints)

100

100 0 26.3

16.15 - 28.0
Low to mod. fracture
Major joint direction
30° L A O C

100

88.7

100

97.8

Hardness (h)		Weathering (w)	
1	Very hard	1	Un-weathered
2	Hard	2	Slightly weathered
3	Intermediate	3	Moderately weathered
4	Incompetent	4	Severely weathered

CONTRACTORS
Associated Diamond Drillers Pty. Ltd.

LOGGED BY
M.J.D.

SCALE
1:1000

NO. 2 OREBODY DDH ~~405~~ 410 - PRECOLLAR

Hole was drilled to 40 feet with casing seated to 38 feet. Actual depth to bedrock is uncertain but minor sand was intersected at approximately 23' - 27' so bedrock could be roughly 28 - 30 feet below the surface at this locality.

		100
		~~100~~
		100
		80.7
		100 54.4 9.40
	Fault. 28.8 - 29.1	100
30	29.1 - 34.9 Severe fracture Jointing at 60° - 70° LAOC	81.7
		98.4
	(Assume 100 joints)	89.6
		100 ~~83.3~~
35		100 25.4 14.50
	34.9 - 40.0	100
		100
		75.5
		100
40		92.6 30.4 12.6
	40.0 - 46.33 Severe fracture	100 ~~66.6~~ ~~83.3~~
		66.6 62.5
		86.9 ~~100~~
		100 ~~66.6~~

				CORE RECOVERY	R.Q.D.	FRACTURE INDEX	DISCONTIN.
				62.5			
45	Assume 100 joints.			61.5			
	46.33 E.O.H.			100	6.3	18.3	

409 Recalculated

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 409 — Date Surveyed 9/2/73

Total Depth 1027' — Depth Surveyed To 830'

Casing Depth 243' — Surveyed By G. Massey

Re calc: G.L. Buckland 12/8/74

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. S	Co-Ords. W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
10	0 1/5	— 1/5	1.00 / .0044	10.0	10.0	0.044		S 45° W	.7071 / .7071	0.03	0.03	0.03	0.03
30	— 1/30	— 1/30	1.00 / .0087	20.0	30.0	0.17				0.12	0.12	0.15	0.15
X 50	— 1/45	— 1/45	.9999 / 0.0131	~~0.0~~ 20.0	15.24 50.0	0.26				0.18	0.18	0.10 0.33	0.10 0.33
70	1/100	1/100	.9998 / .0175	20.0	70.0	0.35				0.25	0.25	0.58	0.58
90	1/100	1/100	.9998 / .0175	20.0	90.0	0.35				0.25	0.25	0.83	0.83
X 110	1/100	1/100	.9998 / .0175	~~0.0~~ 20.0	33.53 110.0	0.35				0.25	0.25	0.33 1.08	0.33 1.08
130	1/100	1/100	.9998 / .0175	20.0	130.0	0.35				0.25	0.25	1.33	1.33
150	1/100	1/100	.9998 / .0175	20.0	150.0	0.35		assume		0.25	0.25	1.58	1.58
X 170	1/100	1/100	.9998 / .0175	20.0	51.82 170.0	0.35				0.25	0.25	0.56 1.83	0.56 1.83
190	1/100	1/85	.9998 / .0218	20.0	190.0	0.44				0.31	0.31	2.14	2.14
X 210	1/130 1/100	1/100	.9998 / .0175	20.0	64.01 210.0	0.35				0.25	0.25	0.73 2.39	0.73 2.39
230													
250	2/00	2/00	.9994 / .0349	39.97	249.97	1.40		S 45 W		0.99	0.99	3.38	3.38
X 270	2/00	2/00	.9994 / .0349	19.99	53.28 269.96	0.70		S 45 W		0.49	0.49	1.18 3.87	1.18 3.87
290	2/00 1/100 2/00	1/130	.9997 / .0262	19.99	289.95	0.52		S 45° W	.7071 / .7071	0.37	0.37	4.24	4.24

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
								S43W	.7314 / .6820	0.26	0.24	4.50	4.46
310	1 00	1 00	.9998 / .0175	19.99	309.94	0.35							
x330	1 00	1 00		19.99	100.56 329.93	0.35		S74W	.2756 / .9613	0.10	0.34	1.40 4.60	1.47 4.82
	1 00												
[redacted]	1 00	1 00		19.99	349.92	0.35		S 57W	.5446 / .8387	0.19	0.29	4.79	5.11
	1 00												
370	1 00	1 00		19.99	369.91	0.35		S67W	.3907 / .9205	0.14	0.32	4.93	5.43
	1 00												
x390	1 00	1 00		19.99	118.84 389.90	0.35		S77W	.2250 / .9744	0.08	0.34	1.53 5.01	1.76 5.77
410	1 00	1 00		19.99	409.80	0.35		S76W	.2419 / .9703	0.08	0.34	5.09	6.11
	1 00												
430	1 00	1 00		19.99	429.79	0.35		S 87W	.0523 / .9986	0.02	0.35	5.11	6.46
[redacted]	1 00												
x450	1 00	1 00		19.99	137.09 449.78	0.35		W	0000 / 1.00	0.00	0.35	1.56 5.11	2.08 6.81
	1 00												
470	1 00	1 00		19.99	469.77	0.35		S76W	.2419 / .9703	0.08	0.34	5.19	7.15
x490	1 00	1 00		19.99	149.28 489.76	0.35		S45W	.707 / .7071	0.25	0.25	1.66 5.44	2.26 7.40
	1 00												
510	1 00	1 00		19.99	509.75	0.35		S70W	.3420 / .9397	0.12	0.33	5.56	7.73
x530	1 00	1 00		19.99	161.46 529.74	0.35		S51W	.6293 / .7771	0.22	0.27	1.76 5.78	2.44 8.00
550	1 00	1 00		19.99	549.73	0.35		S58W	.5299 / .8480	0.19	0.30	5.97	8.30
x570	1 00	1 00		19.99	173.65 569.72	0.35		S69W	.3584 / .9336	0.13	0.33	1.86 6.10	2.63 8.63
	1 00												

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
590	1 00	1 00	.9998 / .0175	19.95	589.67	0.35		S70W	.3420 / .9397	0.12	0.33	6.22	8.96
					~~585.82~~							1.90	2.72
x 610		0 10	1.00 / 0.00	20.0	609.67	0		S70W	.3420 / .9397	0	0	6.22	8.96
	0 00												
630	0 30	0 45	.9999 / .0131	20.0	629.67	0.26		S60W	.5000 / .8660	0.13	0.23	6.35	9.19
[redacted]	1 00												
650	1 00	1 00	.9998 / .0175	20.0	649.67	0.35		S62W	.4695 / .8829	0.16	0.31	6.51	9.50
	1 00												
					204.16							2.03	2.99
x 670	1 00	1 00	.9998 / .0175	20.0	669.67	0.35		S65W	.4226 / .9063	0.15	0.32	6.66	9.82
	1 00												
690	1 00	1 00	.9998 / .0175	20.0	689.67	0.35		S70W	.3420 / .9397	0.12	0.33	6.78	10.15
	1 00												
710	1 00	1 00	.9998 / .0175	20.0	709.67	0.35		S73W	.2924 / .9563	0.10	0.33	6.88	10.48
	1 00												
					722.40							2.19	3.32
x [redacted]	1 30	1 30	.9997 / .0262	20.0	729.67	0.52		S55°W	.5736 / .8192	0.30	0.43	7.18	10.91
	1 30												
750	2	2	.9994 / .0349	20.0	749.67	0.70		S56W	.5592 / .8290	0.39	0.58	7.57	11.49
	2												
770	3 30	3 45	.9979 / .0654	20.0	769.67	1.31		S58W	.5299 / .8480	0.69	1.11	8.26	12.60
	4 10												
					240.66							2.79	4.27
x 790	5	4 45	.9966 / .0828	19.9	789.57	1.66		S58W	.5299 / .8480	0.88	1.41	9.14	14.01
	4 30												
810	5	5	.9962 / .0872	19.9	809.47	1.74		S62W	.4695 / .8829	0.82	1.54	9.96	15.55
	5												
					255.64							3.31	5.20
x 830	5	5	.9962 / .0872	19.9	829.37	1.74		S62W	.4695 / .8829	0.82	1.52	10.78	17.07
	5												17.07

50 ROD.

1/3

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 409 — Date Surveyed 9/21/73

Total Depth 1027 — Depth Surveyed To 830

Casing Depth 243 ± — Surveyed By G. MASSE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
	0	S	●			22.	310.	1°	44° SW	
	1	m	-			23	330	1°	73° SW	
	2	m	-			24	350 350	1°	53° SW	
	3	m	-			25.	370 370	1°	69° SW	
	4	m	-			26	390 390	1°	77° SW	
	5	m	-			27	410. 410.	1°	77° SW	
	6	m	-			28	430 430.	1°	West	
	7	10 10.	-			29	450. 450.	1°	West	
	8	m.	-			30	470 470	1°	76° SW	
	9	30. m.	-			31	490. 490.	1°	45° SW	
	10	50 70 m.	1°	34° SW		32	510. 510	1°	70° SW	
	11	200 m.	-			33	510. 510	1°	70° SW	
	12	110 110	1°	58° SE		34	530. 530	1°	57° SW	
	13	110 110	1°	58° SE		35	550. 550.	1°	58° SW	
	14	130 m.	-			36	570. 570.	1°	68° SW	
	15	190 190 m	1°	4° SE		37	590 590	1°	70° NW	*
	16	210 210	1°	28° SW		38	610 610	0°	75° NW	*
	17	210. 210.	1°	26° SW		39	630 630	0-1°	49° SW	
	18	250 250	2°	50° SW		40	650. 650.	1°	63° SW	
	19	270. 270.	2°	51° SW		41	670 670	1°	62° SW	
	20	290 290.	1°	46° SW		42	690 690	1°	65° SW	
	21	310 310.	1°	43° SW		43.	710. 710	1°	69° SW	

REMARKS:- 2 shots 110 feet + 310. + 510. + 710.

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 409 Date Surveyed 9/2/73

Total Depth 1027 Depth Surveyed To 830

Casing Depth 243. Surveyed By E. MASSEY.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	44	710.	1°	69°SW		66	780 m.	4°	55°SW
	45	730.	1·5°	56°SW		67	720. m	—	
	46	750.	2°	52°SW		68	750 750m	2°	60°SW
	47	770.	3·5°	60°SW		69	740. 740	2°	62°SW
	48	790	5°	58°SW		70	730.	1·5°	55°SW
	49	810	5°	64°SW		71	720 720	1°	55°SW
	50	830	5°	63°SW		72	710	1°	77°SW
	51	830.	5°	62°SW		73	700. m.	—	
	52	830	5°	62°SW		74	690.	1°	74°SW
	53	830	5°	62°SW		75	680	1°	77°SW
	54	830	5°	62°SW		76	m.	1°	69°SW
	55	830	5°	62°SW		77	m	1°	61°SW
	56	830	5°	62°SW		78	640m	1°	60°SW
	57	830	5°	62°SW		79	630	1°	72°SW
	58	830	5°	62°SW		80	620.	0°	80°SW
	59	830	5°	62°SW		81	610.	0°	64°SW
	60	830	5°	62°SW		82	600.	1°	78°SW
	61	830.	5°	62°SW		83	590 m.	—	
	62	820m	5°	61°SW		84	m	To	Weed
	63	820 m	5°	60°SW		85	580 m.	1°	85°NW
	64	800m.	5°	58°SW		86	570m	1°	70°NW
	65	770	45°	58°SW		87	560	1°	83°NW

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 409 — Date Surveyed 9/2/73

Total Depth 1027 — Depth Surveyed To 830

Casing Depth 243 — Surveyed By G. MASSE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	88	sm	- 1°	35° SW		110.	40	—	
	89	540 m.	—			110	320 m.	1°	75° SW
	90	530 m.	—			112	310 m.	—	
	91	520 m.	1°	39 SW		113	300. m.	1°	40° SW
	92	510 m.	—			114	290	2°	45° SW
	93.	500. m.	1°	66° SW		115	260 m.	2°	40° SW
	94	490 m.	1°	44° SW		116	250. m.	—	
	95	480. m.	—			117	240.	—	
	96	470 m.	—			118	230 m.	—	
	97	460 m.	—			119	190	1.5°	65° NW
	98	450 m.	—			120.	180 m.	—	
	99	440	1°	88° SW		121	170 m.	1°	64° NW
	100.	430 m.	1°	85° NW		122.	150 m.	—	
	101	420 m.	1°	West		123.	130 m.	1°	67° SW
	102	510 m.	1°	75° SW		124	120 m.	—	43° SW
	103	400 m.	1°	75° SW		125	100 m.	—	
	104	390 m	1°	53° SW		126	80 m.	—	
	105	380 m.	1°	60° SW		127	60 m.	—	
	106	370	1°	72° SW		128	40 m.	—	
	107	370 m.	1°	65° SW		129	30 m.	—	
	108	360 360.	1°	60° SW		130	20	—	
	109	350. 350.	Hard	—		134	S		

REMARKS:-

DDH 409 No 2 O/B

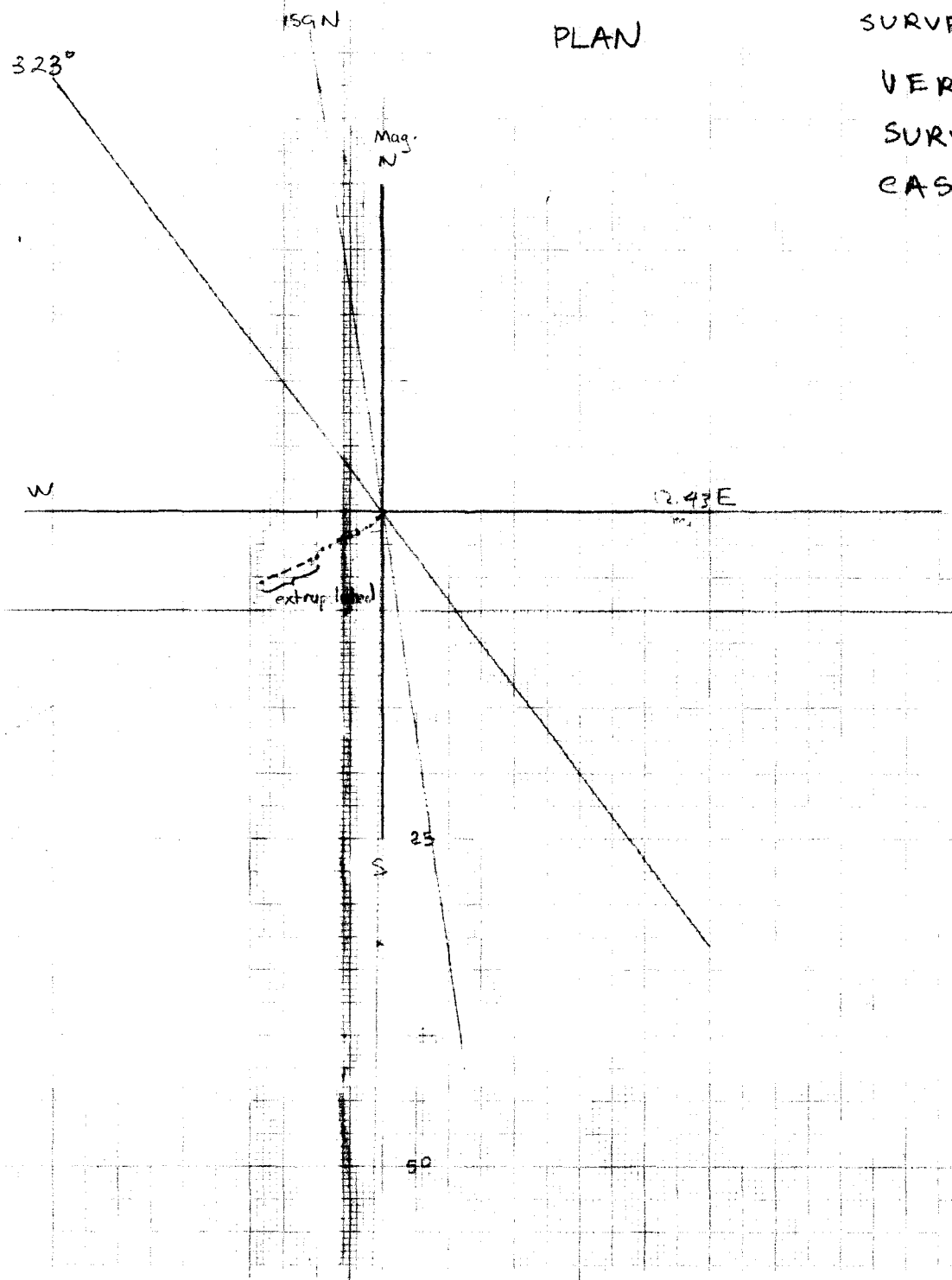
SURVEYED TO 830ft (253m)

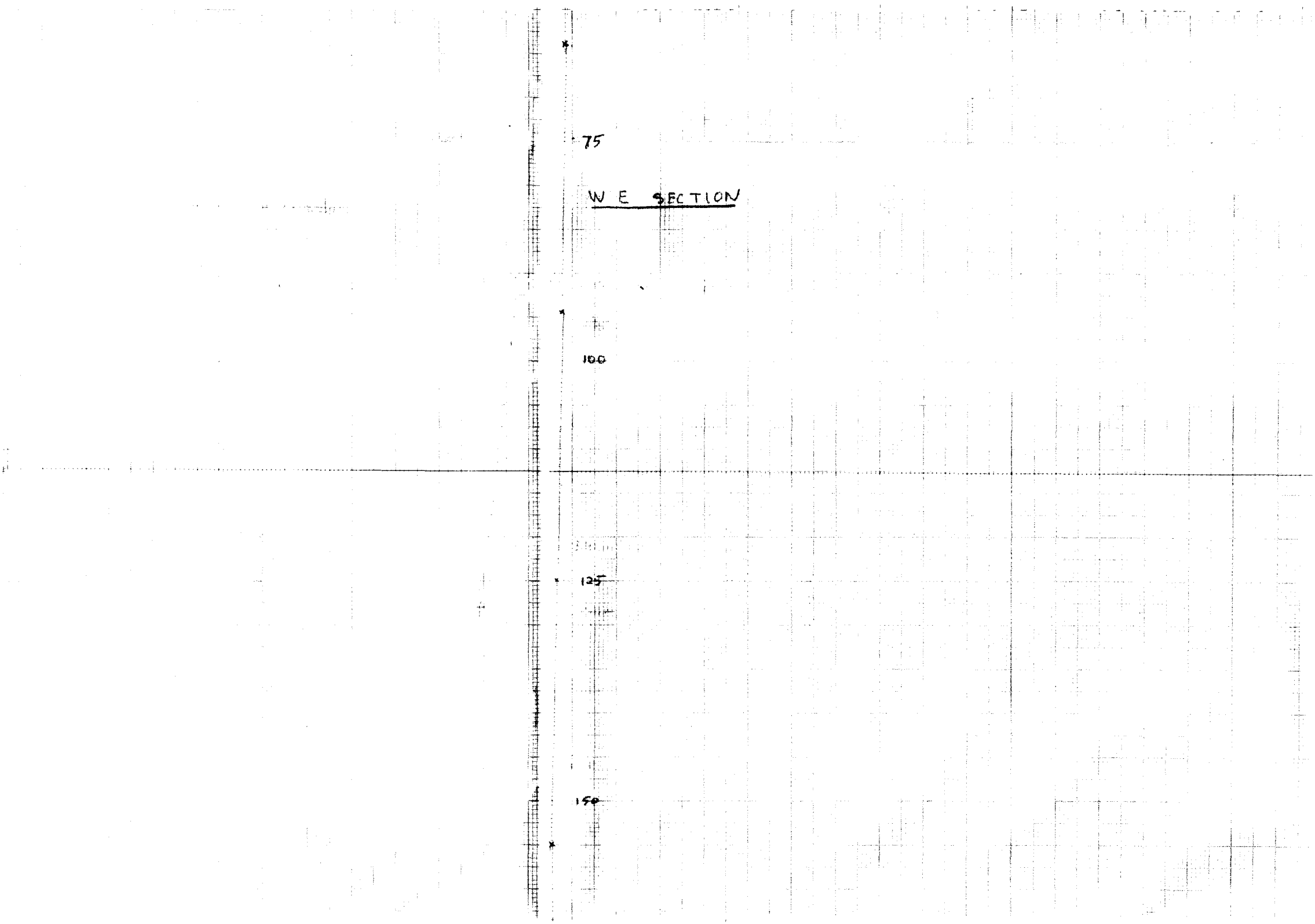
VERTICAL HOLE.

SURVEYED BY G. M.

CASING DEPTH 243ft.

PLAN

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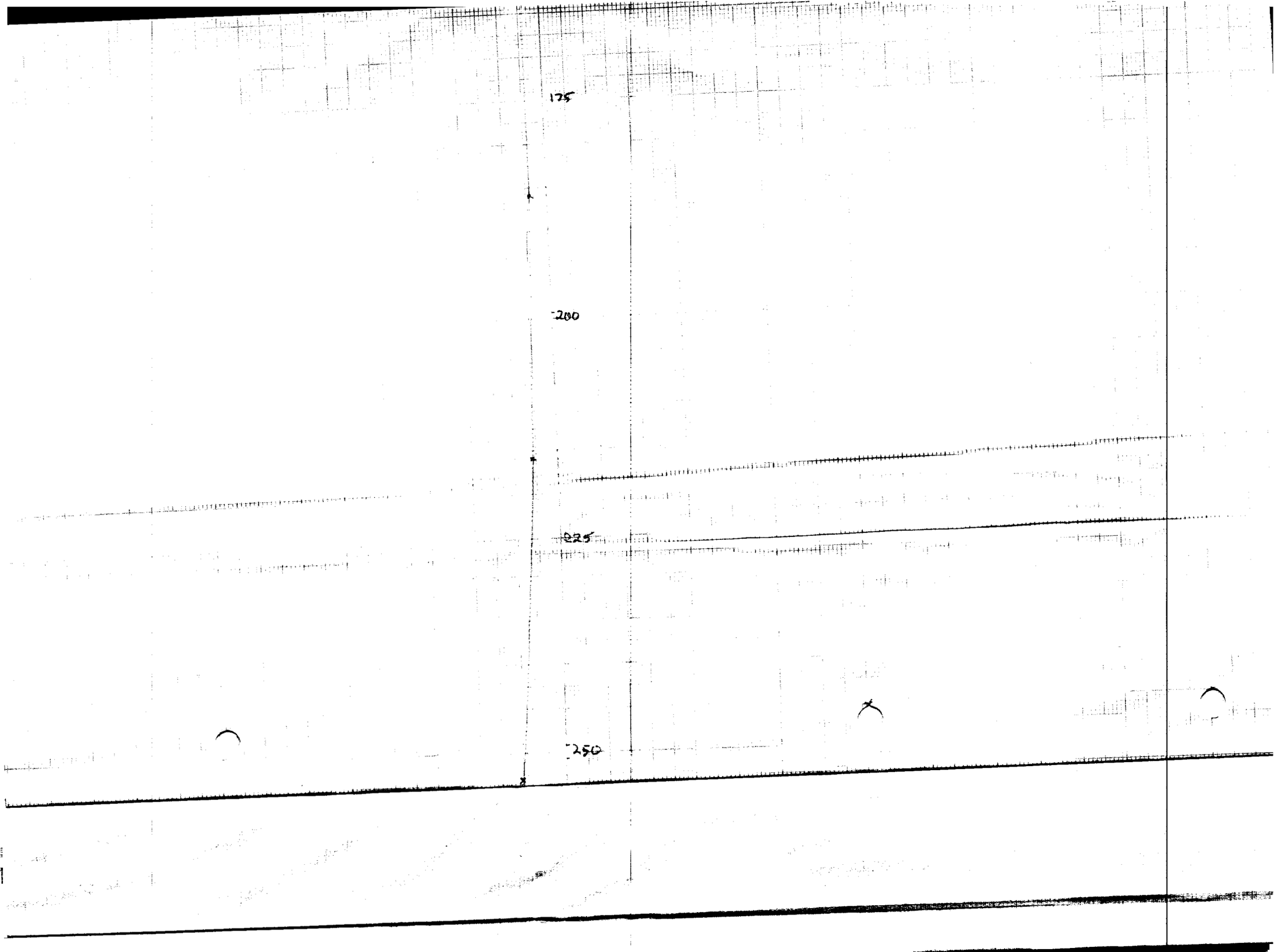
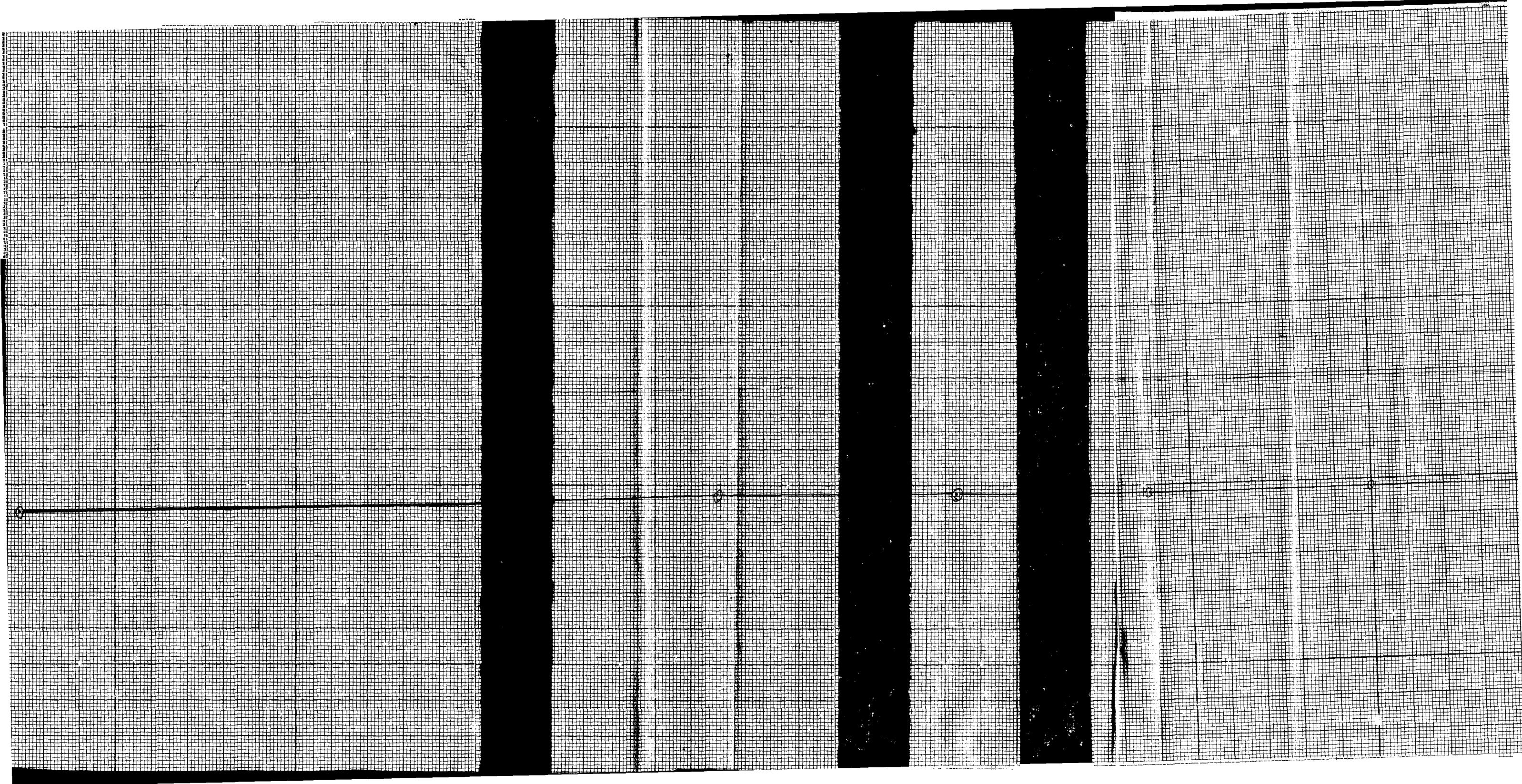
W E SECTION
100
125
150


175
200
225
250

ISAN



DDH 404

GEOPEKO LIMITED - KING ISLAND

D.D.H. No.: 409

Location:

Eastern sea dump. No. 2 Orebody area.

Purpose of Hole:

To test nose of anticlinal structure and extension of No. 2 Orebody to the south east.

Hole Proposed by:	M. Danielson		Date	April, 72
Surveyed in by:	P. Morrison		Date	10/9/72
Proposed:	220360	E	563960	N
Surveyed:		E		N
Actual from which Drilled:	220361.78	E	563964.15	N

Reduced Level of Collar: + 5.931 m

Bearing:- I.S.G. Grid Magnetic

Inclination:- Vertical degrees

Target; depth: 230 m ft.

Planned depth: 310 m ft.

Actual Depth: 313.03 m ft.

Date Commenced: 15/ 9/72

Date Completed: 10/ 2/73

Wedges Placed:

Nil

Extensions (if any)

Nil

Checked: M. Danielson

Summary Result:

253 - 292 39 m at 2.04% WO_3

Remarks:

Surveyed to 252.98 m (830').

DRILL LOG DDH: 409

00 - 220.0 UPPER META-VOLCANICS - FAULT ZONE (?)

00 - 54.86 No core, hole passed through sand.

54.86 - 58.52 Extensively broken core of fine grain dark grey-green hornfels composed principally of a felted meshwork of actinolite crystals, (i.e. typical upper volcanic).

58.52 - 64.95 Meta-volcanic weathered to varying degrees. Predominantly sub-angular to sub-rounded pebbles set in or interspersed with khaki-brown clay.

64.95 - 77.60 Light brown compacted clay containing remnant fragments of parent (?) meta-volcanics. Original joints still sharp and discernible. Degree of weathering decreases slowly with depth. Unconsolidated rubbly horizons occur within the clay sequence, e.g. 73.30 - 73.63, however there is little core loss.

77.60 - 85.20 Mostly rubble of clay - meta-volcanics with occasional lengths up to 25 cm of little oxidised medium grain mottled (vesiculation) actinolite rich crystalline meta-volcanics.

85.20 - 104.34 Fresher rock but still extremely rubbly and oxidised to varying degrees. Mostly in pieces approximately 5 cm long, no unbroken length >25 cms. Broken faces chlorite covered. Abundant clay infilling: Crystals of MoS_2 common in the clay pug, occasional crystals also present in rock matrix. In a number of sections a breccia of angular volcanic fragments set in a chlorite - clay matrix forms a solid portion of core, e.g. 94.35 - 94.80. The cementing becomes stronger with depth.

98.22 - 98.32 White quartz vein with irregular boundaries, odd MoS_2 crystal along the margins.

104.34 - 107.70 Fairly sharp boundary between highly broken chlorite rich core and fairly competent massive spotted (vesicular) dark grey-green actinolite rich sharply jointed meta-volcanic.

107.70 - 151.73 Runs of competent fresh core up to 1 metre long interspersed with highly broken fault-like zones of varying thickness (most approximately 50 cm thick). Fragments are usually coated with chlorite. Rock type is same medium green-grey actinolite rich spotted meta-volcanic: a holocrystalline fine - medium grain felted actinolite groundmass usually with chlorite vesicles (?) spotting the surface. Degree of spotting variable but mostly low (approximately 10% surface area). Chlorite cemented breccias at 130.80 - 132.45 and 135.01 - 135.51.

151.73 - 160.0 Core extremely rubbly and brecciated. Rich in chlorite with lesser amounts of clay. Most pieces <4 cm, none greater than 20 cm.

Upper volcanics continue to 220 metres with high to intense fracturing, (see fracture log).

220.0 - 249.0 HANGINGWALL BIOTITE HORNFELS

Mainly a sheared greyish biotite actinolite hornfels with the shearing apparently in the plane of the bedding.

223 m 40° L.A.O.C.
233 m 45° L.A.O.C.

Occasional wispy interbeds of Ph, usually less than 1 cm wide, bedding 242 m 56° L.A.O.C.

245.7 - 248.2 hornfels are very sheared and weathered with much clay. Core recovery is good but core has no competency and falls apart when washed. Increased carbonate veining in the hornfels between 248.2 - 249.0

248.5 - 249.0 very minor disseminated scheelite.

249.0 - 251.3 MARBLE

A dirty white grey marble. No scheelite. Core heavily fractured, with only one piece >10 cms in length.

251.3 - 253.3 BIOTITE HORNFELS

Core is badly shattered and is mostly rubble.

252.0 - 252.1 weak Gph skarn with very minor disseminated scheelite.

253.3 - 261.85 PYROXENE GARNET HORNFELS

Generally typical green Pgh with calcite pods usually < 1 cm diameter, some grossular garnet. Variable scheelite.

261.85 - 279.5 C LENS

Fine grained andradite skarn. Garnet rich to 275.5 and then 275.5 - 279.5 more carbonate rich.

279.5 - 283.4 MARKER BEDS (?)

279.5 - 280.2 barren Bh.
280.2 - 281.0 weak pyroxene rich skarn.
281.0 - 282.0 barren marble.
282.0 - 283.4 barren Bh.

283.4 - 287.7 BANDED SKARN (Lower Orebody)

A weakly banded andradite skarn carrying mineralisation. Banding

284 m 60° L.A.O.C.
286 m 64° L.A.O.C.

287.7 - 293.2 BANDED FOOTWALL BEDS

Mainly a thinly banded Bh/Ph with some minor carbonate and grossular garnet banding. Mineralisation does not extend below 291.3 metres.
Bedding

288 m 58° L.A.O.C.
292 m 52° L.A.O.C.

293.2 - 299.4 OLDER VOLCANICS

A massive fine grained grey rock with blebs of mica up to 5 mm diameter. Low fracture.

299.4 - 304.96 BIOTITE / PYROXENE HORNFELS

Thinly banded (1cm wide) biotite pyroxene hornfels. No mineralisation. Bedding 303 m 67° L.A.O.C.

Aplite 300.68 - 301.0

304.96 - 313.03 GRANITE

Pale pinkish white, medium grained, slightly porphyritic.

E.O.H. 313.03 metres.

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 409

Logged By : M.J.D.

Sample No.	FOOTAGES			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
C 0752	248	249	1.0	0.10	<0.01		
3	249	250	"	0.04	"		
4	250	251	"	0.05	"		
5	251	252	"	0.03	"		
C 0756	252	253	"	0.04	"		
C 0960	253	254	"	0.50	0.03		
1	254	255	"	0.54	0.02		
2	255	256	"	1.66	0.10		
3	256	257	"	1.02	0.06		
4	257	258	"	6.80	0.19		
5	258	259	"	0.50	0.02		
6	259	260	"	4.40	0.07		
7	260	261	"	4.10	0.12		
8	261	262	"	0.74	0.04		
9	262	263	"	3.40	0.10		
70	263	264	"	2.32	0.08		
1	264	265	"	2.81	0.13		
2	265	266	"	1.97	0.08		
3	266	267	"	2.20	0.07		
4	267	268	"	1.20	0.04		
5	268	269	"	0.58	0.02		
6	269	270	"	0.66	0.03		39.0m at 2.04% WO_3
7	270	271	"	1.24	0.05		
8	271	272	"	1.15	0.04		
9	272	273	"	1.06	0.05		
C09 80	273	274	"	1.44	0.05		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 409

Logged By : M.J.D.

Sample No.	FOOTAGES			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
C 0981	274	275	1.0	1.27	0.06		
2	275	276	"	3.38	0.10		
3	276	277	"	3.44	0.08		
4	277	278	"	2.55	0.12		
5	278	279	"	10.60	0.26		
6	279	280	"	2.12	0.07		
7	280	281	"	0.50	0.03		
8	281	282	"	0.20	0.01		
9	282	283	"	0.06	<0.01		
90	283	284	"	1.00	0.04		
1	284	285	"	1.20	0.04		
2	285	286	"	2.15	0.06		
3	286	287	"	0.79	0.03		
4	287	288	"	0.45	0.02		
5	288	289	"	2.72	0.07		
6	289	290	"	0.07	0.01		
7	290	291	"	1.51	0.04		
C0998	291	292	"	5.40	0.12		
C 0757	292	293	"	0.04	<0.01		

DDH 408

GEOPEKO LIMITED - KING ISLAND

D.D.H. No.: 408

Location:

Sea dump. No. 2 Orebody area. To test Southern extension No. 2 Orebody.

Purpose of Hole:

To test south eastern extension of No. 2 Orebody.

Hole Proposed by:	M.J.Danielson		Date	Sept. 71
Surveyed in by:	P. Morrison		Date	3/11/72
Proposed:	563940 N	E	220300 E	N
Surveyed:	563920 N	E	220280 E	N
Actual from which Drilled:	563919.2 N	E	220279.8 E	N

Reduced Level of Collar: + 12.43 m

Bearing:- Nil Grid Magnetic

Inclination:- Vertical degrees

Target; depth: 220 m

Planned depth: 300 m

Actual Depth: 299.31 m

Date Commenced: 10/11/72

Date Completed: 17/ 1/73

Wedges Placed:

Extensions (if any) Nil

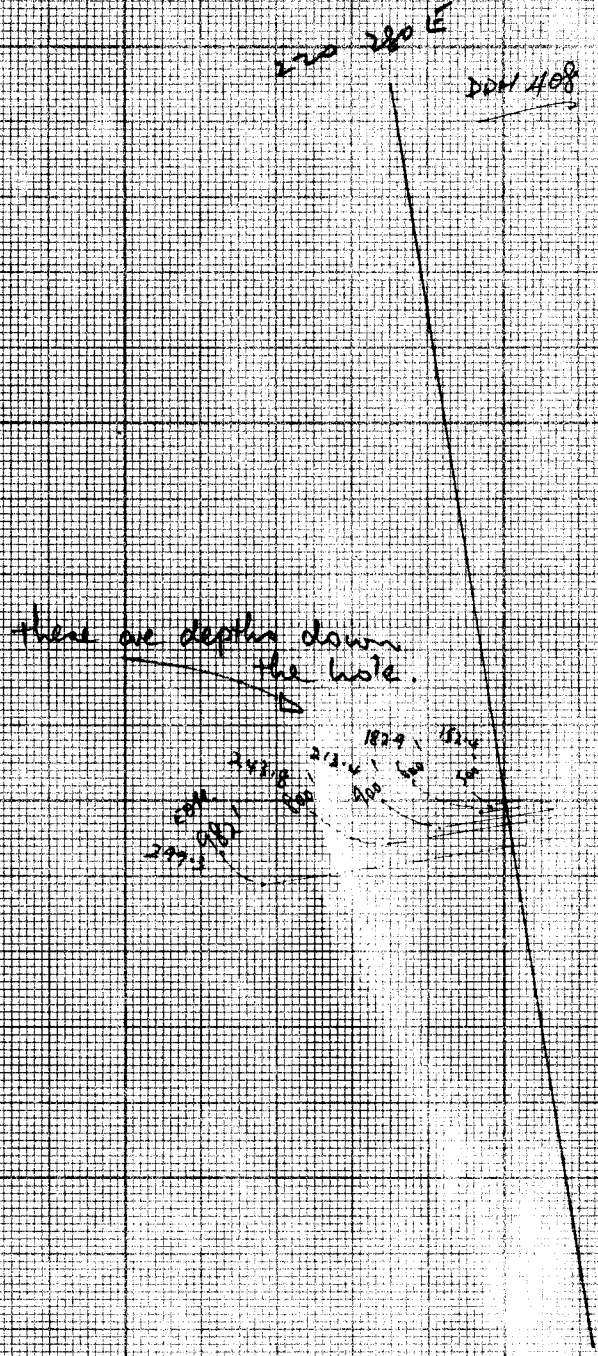
Checked: P. Cottam

Summary Result:

214.4 - 218.4 4 m at 0.68% WO_3.

Remarks:

Fault 260 - 267 m with south block down relative movement approximately 60 m.
0 - 267 BQ 267 - 299 AQ.



depth down hole	Vert. depth
152.4 m	152.4 m
182.9	182.87
213.4	213.2
243.8	243.5
274.3	298.4

DRILL LOG DDH: 408

00 - 164.09 UPPER VOLCANICS

0 - 28.65 No core.

A grey green weakly spotted (vesicular?) actinolite rich metavolcanic.

28.65 - 31.09 Core is heavily brecciated with approximately 1 metre lost core.

Joints are clay filled to approximately 40 metres and thereafter most are chlorite coated with occas ional areas of carbonate. See the fracture log of this hole for a more detailed description of the jointing.

36 - 37 m Spotting dominant with spots up to 3 mm diameter.

36.8 metres 3 mm carbonate vein.

42.3 - 43.0 Abundant spotting.

42.85 metres 2 mm carbonate vein.

Core badly brecciated 45.5 - 48.0
60.0 - 67.0.

Core size broken down to BQ between 79.25 - 87.04 but later reamed out and NQ core continues below 87 metres.

84.65 - 84.8 recemented breccia with a chlorite groundmass.

89.5 - 97 intense brecciation.

103.6 - 113 intense brecciation.

Core size reduced to BQ at 117.04.

Intense brecciation 124 - 126 metres
153 - 157 metres.

Possible fault 109 - 111 metres. Severe brecciation with some slickensides.

164.09 - 204.53 HANGING WALL HORNFELS

Rapid change from actinolite rich volcanics to massive dark purpley-grey biotite rich fine grain hornfels.

164.09 - 188.22 fine grain biotite rich hornfels with extensively mottled, sometimes fragmental, texture with even distribution of blebs, elongate spots, and disturbed beds of light green-white mineral (rarely

calcite). Bedding weakly visible in some parts of core. Possibly result of normal sedimentary sequence being highly disturbed of possibly of volcanic - sedimentary origin.

188.22 - 189.17 andradite skarn with some interstitial pyroxene and calcite. Contains fine disseminated scheelite. Sharp upper and lower boundaries.

189.17 - 190.12 laminated fine grain biotite and pyroxene hornfels.

190.12 - 190.84 light brown band of fine grain grossularite hornfels with weak scheelite mineralisation bounded by narrow pyroxene hornfels bands at top and bottom.

191.11 - 204.53 fine grain purple-black massive biotite rich hornfels with well developed open jointing. From 192.02 - 199,32 surface is mottled with light grey spots: appears much like upper volcanics. Siliceous pyroxene hornfels interbeds present at ; 195.50, 200.20, 203.15 - 204.17.

203.00 - 204.53 light green siliceous pyroxene hornfels that grade into the PGH unit.

204.53 - 205.80 PGH

Not as well defined unit as normal.

A gradation over 1½ metres occurs from hanging wall biotite hornfels into a banded siliceous pyroxene hornfels into a pyroxene hornfels carrying occasional calcite - grossularite pods in its matrix at 204.53. (A lesser than usual concentration of calcite pods) The pods have a broad light brown grossular rim. At 205.80 this grades into a much more garnet rich rock with no obvious calcite pods.

205.80 - 242.56 C LENS

205.80 - 206.52 Has sharp contact with PGH. A poorly developed garnet pyroxene skarn with small patches of barren fine grain dark grey hornfels and irregular patches of calcite (not ovoids) contains patchy disseminated scheelite mineralisation.

206.52 - 207.22 zone of rubbly fine grain calcite hornfels.

207.22 - 215.91 light grey fine grain calcite hornfels with light green zones rich in pyroxene, zones of intense dark spotting and zones of weathering and high fracture.

Bedding visible but not generally well defined. Highly fractured zones: 209.39 - 209.59, 210.86 - 212.44 highly fractured zone grading down

into soft chlorite rich weathered material with narrow zones of calcite rubble.

Bedding; 52^{o} to LAC at 214 m
35^{o} to LAC at 215 m
60^{o} to LAC at 207.50 m.

215.91 - 218.62 green-brown pyroxene garnet skarn showing slight weathering effects over most its length becoming soft and chlorite rich over its last 20 cm. It carries moderate disseminated scheelite mineralisation.

218.62 - 223.20 MARKER BEDS ?

218.62 - 219.93 highly fractured dark grey fine grain biotite hornfels, soft chlorite and brecciated between 219.48 - 219.64, grades into severely weathered clay rich rock at base.

219.93 - 222.38 light green brown severely weathered rock, now consisting predominantly of compacted clay. It grades down into slightly weathered pyroxene hornfels at base. So this is presumably what it has derived from.

222.38 - 223.20 slightly weathered fine grain light green irregularly banded hornfels consists principally of siliceous pyroxene hornfels with narrow interbeds and irregular patches of light brown grossular garnet.

223.20 - 223.72 band of slightly weathered dark brown garnet skarn with weakly defined bedding. Contains disseminated scheelite mineralisation. Puggy chloritic basal contact with underlying calcite hornfels.

223.72 - 230.78 light grey-white calcite hornfels, highly fractured and suffering varying degrees of weathering, in parts severe as at 225.98 - 227.90 where core is brecciated and rich in clay and chlorite. Contains pyroxene and garnet at 224.64 - 225.05, 230.10 - 230.25 with disseminated scheelite mineralisation.

230.78 - 239.12 fine grain light grey-white calcite hornfels that is much more competent and uniform than overlying material. All fairly pure except for pyroxene - grossular rich zone between 234.26 - 235.40 which contains disseminated scheelite mineralisation. Lower boundary marked by 2 cm clay - chloritic zone.

239.12 - 240.95 dark grey brown biotite hornfels, highly broken at base.

240.95 - 242.56 light grey fine grain calcite hornfels, core highly broken over a few cm, at base.

Bedding: 45^{o} to LAC at 232 m
87^{o} to LAC at 236.50 m
65^{o} to LAC at 224 m

242.56 - 267.61 FOOTWALL BEDS

Not the typical laminated **BPh** footwall beds but more resembling some of hanging wall hornfels rocks.

242.56 - 249.00 a fine grain hornfels with a dark grey-brown very fine grain biotite rich matrix containing numerous (sub-rounded light coloured angular) fragments which range up to a few cm in diameter but are by far the majority in the 1 mm and less diameter size range. Some of these fragments are calcareous with narrow pyroxene rims while most are a light green-white colour possibly pyroxene-actinolite-quartz. Some bedding is present with 2 cm wide white siliceous bands with irregular light green pyroxene rim occurring at 245.16, 243.72, 244.00, 244.10 at 40^{o} LAC. All other beds present are discontinuous. This portion of the sequence appears as though the normal sedimentary sequence was slumped or disturbed so as to largely obliterate the bedding and giving a porphyritic - fragmental texture. There is 80 cm core loss between 245.73 and 247.25, likely fault in this area as remaining core is rubbly and chloritic.

249.00 - 267.61 largely a fine grain dark purple-grey biotite rich hornfels, does not have fragmental nature of overlying sequence, with the odd narrow interbed of light green siliceous hornfels and zones of brecciation and chloritisation. Core is generally highly fractured with many of fractures cemented by calcite so some parts of core are heavy with interfingering calcite stringers.

249.00 - 251.55 massive competent section of core with from 250.30 to 251.05 dark spotted texture giving strong resemblance to upper volcanics.

251.55 - 252.33 weakly cemented zone of chlorite with highly fractured and intermixed hornfels and light green quartzitic material.

252.33 - 253.39 biotite hornfels with large number of calcite stringers criss crossing and cementing the rock chlorite rich and soft in last few centimetres.

254.21 - 254.41 core extremely rubbly and broken. Possible fault.

Core heavily brecciated 258.76 - 267.61 with much core lost. e.g. 260.45 - 267.61 only 0.90 metres recovered.

267.61 - 282.30 **PYROXENE GARNET HORNFELS**

Pyroxene rich hornfels with carbonate ovoids up to 3 cms diameter, rimmed by pale honey coloured grossular garnets. Weakly disseminated scheelite. 273.20 - 275.30 barren Bh.

282.30 - 286.66 GARNET SKARN

Fine to medium grained pyroxene rich andradite skarn. Finely disseminated scheelite.

286.66 - 288.95 BIOTITE HORNFELS

Only 0.55 metres recovered. Barren black hornfels.

288.95 - 295.30 BANDED SKARN

Banded pyroxene rich skarn. Minor scheelite. Banding at 45° to L.A.O.C.

295.30 - 299.31 GRANITE

Pale whitish pink, fine to medium grained - <u>not</u> porphyritic. Core is brecciated with minor core loss.

E.O.H. 299.31 metres.

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 408

Logged By : P.C.

Sample No.	FOOTAGES			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
C 0740	205.8	206.8	1.0	0.36	0.01		
C 0741	209	210	"	0.57	0.03		
2	210	211	"	0.06	<0.01		
C 0743	214.43	215.43	1.0	0.55	0.04		
4	215.43	216.43	"	0.70	0.03		
5	216.43	217.43	"	0.91	0.05		4m at 0.68%
6	217.43	218.43	"	0.57	0.04		
C 0747	223.18	224.18	1.0	0.05	<0.01		
8	224.18	225.18	"	0.30	0.01		
9	225.18	226.18	"	0.06	<0.01		
C 0750	234.46	235.46	1.0	0.64	0.03		
C 0951	188.17	189.17	1.0	0.39	0.02		
2	189.17	190.17	"	0.03	0.01		
C 0953	190.17	191.17	"	0.03	<0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 408

Logged By : M.J.D.

Sample No.	FOOTAGES			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
C 0780	268.9	272.0	3.1	.18	<.01		1.80 recovered
1	272.0	273.0	1.0	.13	<.01		
2	275.5	283.5	8.0	.08	<.01		1.75 recovered
3	283.5	284.5	1.0	.63	.02		
4	284.5	285.5	"	.36	.01		
5	285.5	286.5	"	.57	.02		
6	289	290	1.0	.11	.01		
7	290	291	"	.17	<.01		
8	291	292	"	.37	.02		
9	292	293	"	.50	.01		
C 0790	293	294	"	.67	.03		

Initial survey

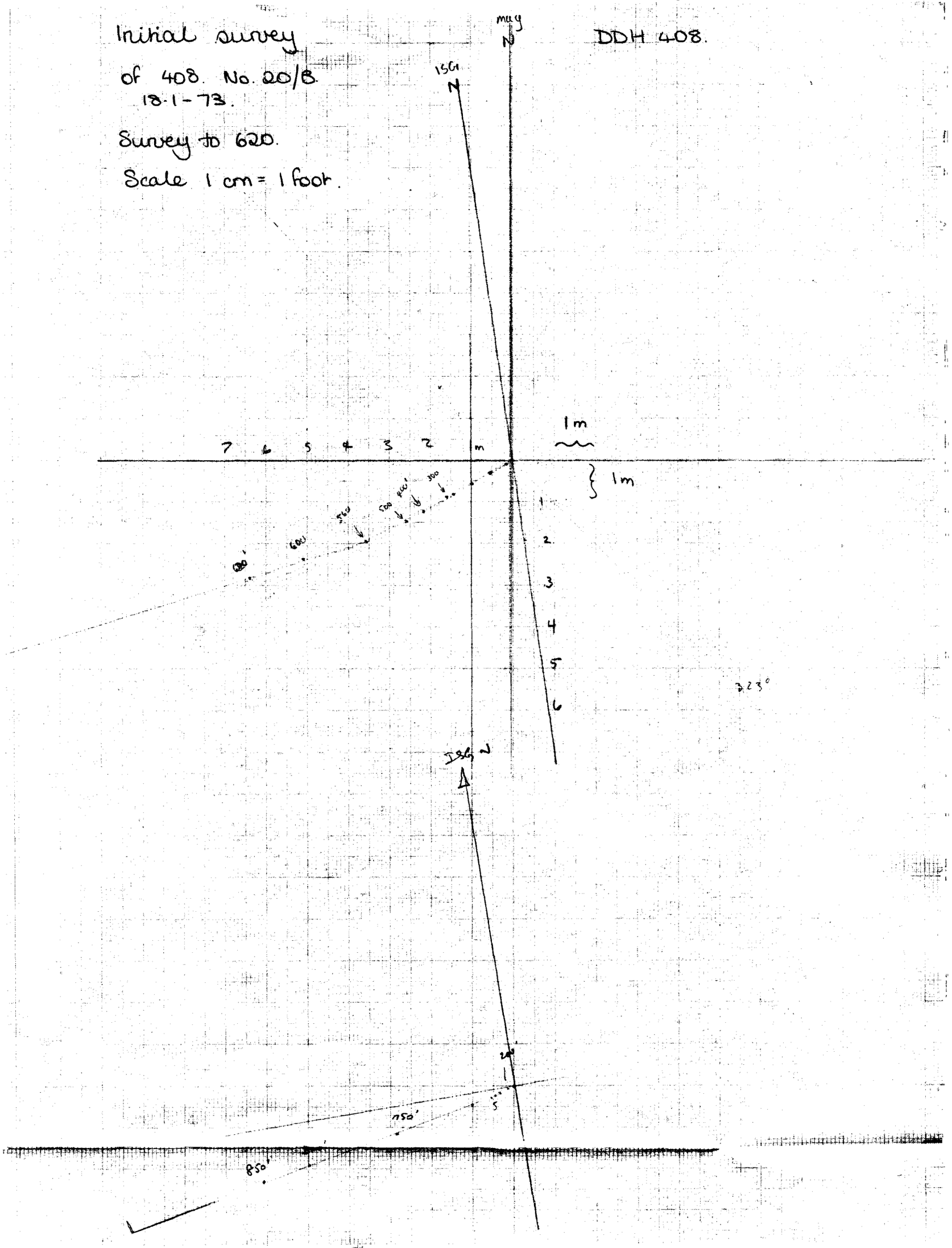
of 408. No. 20/B

18-1-73.

Survey to 620.

Scale 1 cm = 1 foot.

DDH 408.



Sheet No. 1 of 3

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 408 — Date Surveyed 18.1.73

Total Depth — Depth Surveyed To 620'

Casing Depth 380' — Surveyed By G. Maney.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords N/S	Sum of Co-Ords E/W
0		0 00	—	00	0	0	—	—	—	-	-	-	-
20		0 00	—	20	20	0	—	—	—	-	-	-	-
[illegible]		0 00	—	20	40	0	—	—	—	-	-	-	-
60	0 00	0 00	—	20	60	0	—	—	—	-	-	-	-
80	0 15	0 15	1.000 / .00044	20	80	.09		60	.500 / .866	.04	.08	.04	.08
	0 15		—										
100	0 30	0 15	—	20	100	.09			—	.05	.08	.09	.16
120	0 15	0 15	—	20	120	.09			—	.04	.08	.13	.24
[illegible]													
140		0 15	—	20	140	.09			—	.05	.08	.18	.32
160		0 15	—	20	160	.09			—	.04	.08	.22	.40
180		0 30	1.000 / .00087	20	180	.17			—	.08	.15	.30	.55
	0 30		—										
200		0 30	—	20	200	.17			—	.09	.15	.39	.70
220		0 30	—	20	220	.17			—	.08	.15	.47	.85
240		0 30	—	20	240	.17			—	.09	.15	.56	1.00
	0 30		—										
260	1 00	1 00	.9998 / .0175	20	260	.35			—	.17	.30	.73	1.30
	1 00		—										
280	1 00 / 0 00	0 30	1000 / .00087	20	280	.17			—	.09	.15	.82	1.45

S 60 W

Assume

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 408 Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. #/S	Co-Ords. #/W	Sum of Co-Ords #/S	Sum of Co-Ords #/W
300		0 30	1.000 / .0087	20	300	.17			.5 / .866	.08	.15	.90	1.60
320		0 115	1.000 / .0044	20	320	.09				.05	.08	.95	1.68
340		0 15		20	340	.09	S 60 W			.04	.08	.99	1.76
360	0 15	0 15		20	360	.09	S 60 W			.05	.08	1.04	1.84
	0 15												
380	0 45	0 37	1.000 / .0189	20	380	.22	S 60 W			.11	.19	1.15	2.03
	0 30												
400	0 30	0 30	1.000 / .0087	20	400	.17	S 60 W			.08	.15	1.23	2.18
420	0 15	0 07	1.000 / .0022	20	420	.04	S 60 W			.02	.03	1.25	2.21
	0 00												
440	0 30	0 15	1.000 / .0044	20	440	.09				.05	.08	1.30	2.29
	0 00												
460		0 15		20	460	.09				.04	.08	1.34	2.37
480		0 22	1.000 / .0066	20	480	.13				.06	.11	1.40	2.48
	0												
500	0 30	0 22	.9999 / .0153	20	500	.13	S 60 W	60	.5000 / .866	.07	.11	1.47	2.59
	0 15						S 27 E ?						
520	0 145	0 52	.9999 / .0153	20	520	.30	S 54 W	54	.5878 / .809	.18	.24	1.65	2.83
	1 00						S 54 W						
540	1 00	1 00	.9998 / .0175	20	540	.35	S 57 W	57	.5446 / .8387	.19	.29	1.84	3.12
	1 00												
560	1 15	1 15	.9998 / .0218	20	560	.44	S 64 W	71	.3256 / .9455	.14	.42	1.98	3.54
	1 15						78						

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 408 Date Surveyed

Total Depth Depth Surveyed To 850'

Casing Depth 850' Surveyed By

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords N/S	Sum of Co-Ords W
580	2 00	2 00	.9994 / .0349	19.99	579.99	.70	S 79 W	S 80 W	.1736 / .9848	.12	.69	2.10	4.23
	2 00						S 80 W						
600	2 15	2 37	.9989 / .0458	19.98	599.97	.92	S 80 W	74	.2756 / .9613	.25	.88	.72 2.35	1.56 5.11
	3 00						S 68 W						
620	4 00	4 00	.9976 / .0698	19.95	619.92	1.40	S 71 W	71	.3256 / .9455	.46	1.32	2.81	6.43
	4 00						71						
640	5 15	5 15	.9958 / .0915	19.92	639.22	1.83			.3420 / .9397	0.63	1.72	3.44	8.15
							^						
660		5 45	.9950 / .1002	19.90	659.74	2.00				0.69	1.87	4.13	10.02
680	6 15	6 15	.9941 / .1089	19.88	679.62	2.17				0.74	2.05	4.87	12.07
700	6 30	6 30	.9936 / .1132	19.87	699.49	2.26				0.77	2.12	1.72 5.59	4.33 14.20
720	6 30	6 30	.9936 / .1132	19.87	719.36	2.26	S 70° W			0.77	2.12	6.41	16.32
740	6 30	6 22½	.9938 / .1110	19.88	739.24	2.22	S			0.76	2.09	7.17	18.41
	6 15												
760	6 30	6 22½	.9938 / .1110	19.87	759.12	2.22				0.76	2.09	7.93	20.50
	6 15												
780	6 30	6 22½	.9938 / .1110	19.88	779.00	2.22	ASSUMED			0.76	2.09	8.69	22.59
	6 15												
800	6 30	6 30	.9936 / .1132	19.87	798.87	2.26				0.77	2.12	2.88 9.46	7.53 22.71
	6 30												
820	6 45	6 52½	.9928 / .1197	19.86	818.73	2.39				0.82	2.25	10.28	26.96
	7 00												
840	7 15	7 15	.9920 / .1262	19.84	838.57	2.52				0.86	2.37	11.14	29.33
	7 15												
850	7 30	7 30	.9914 / .1305	9.91	848.48	1.31				0.45	1.23	11.59	30.56

Sheet No..... of.....

DIAMOND DRILL HOLE SURVEY

EASTMEN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed to _____

Casing Depth _____ Surveyed By _____

Assume

850 -

- 982

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. S	Co-Ords. W	Sum of CO-Ords. N/S	Sum of CO-Ords. E/W
		8° 30'	.9890 / .1478	130.55	979.03	19.51	S 70 W	S 70 W	.3420 / .9396	6.67	18.33	18.27	48.89
												(5.57)	(14.9)

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 408 Date Surveyed 18.1.73

Total Depth _____ Depth Surveyed To 620'

Casing Depth 380' Surveyed By G. Maney

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
		M	M				340	0	S 25 E	
		M	M				360	¼	S 52 W	
		M	M				380	¾	S 46 E	
		M	¼	N 67 W			400	½	S 12 E	
		M	M				420	¼	N 68 W	S 51 W
		20	M				440	½	N 40 E	N 50 W
		40	M				480	NM	E	S 27 E
		60	0	S 67 E			500	½	S 27 E	
		80	¼	N 73 E			520	¾	N 60 W	
		100	½	N 85 E			540	1	S 57 W	
		120	¼	N 78 E			560	1¼	S 64 W	
		140	M				580	2	S 79 W	
		160	M				600	2¼	S 80 W	
			M				620	4	S 71 W	
		180	M				620	4	S 71 W	
		200	M				620	4	S 71 W	
		220	M				620	4	S 71 W	
		240	M	1			620	4	S 71 W	
		260	1	N 15 W			620	4	S 71 W	
		280	1	N 30 E			M	3½	S 72 W	
		300	M				610	3½	S 72 W	
		320	M				600	3	S 68 W	

REMARKS:- _____

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 409 Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
		590	M				400	M	
		M	2	S 80 W			390	1/2	N 35 E
		570	1 1/2	S 80 W			380	1/2	N 50 E
		560	1 1/4	S 78 W			370	1/2	S 80 E
		M	1	S 64 W			360	1/4	E
		M	M				350	M	
		M	M				340	M	
		M	M				330	0	S 76 W
		520	1	S 54 W			M	M	
		510	3/4	S 26 W			M	M	
		500	1/4	S 60 W			M	M	
		M	M				300	M	
		480	0	S 27 E			290	0	N 80 E
		470	0	S 20 E			280	0	1
		470	0	S 22 E			270	1	N 35 E
		460	M				260	1	N
		450	0	N 44 W			M	1	— M —
		440	0	N 50 W			250	M	
		430	0	S 70 W			240	1/2	N 65 W
		420	0	S 51 W			230	0	S 70 E
		410	0	S 74 W			220	M	
		M	M				210	M	

REMARKS:- _____

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 408 Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
		200	M				M	M		
		M	M				M	M		
		190	½	N			M	M		
		180	½	N 38 E			M	M		
		170	½	N 84 E			M	M		
		160	M							
		150	M							
		140	M							
		130	M							
		M	M							
		120	M							
		100	M							
		90	½	N 77 E						
		80	¼	S 75 E						
		70	0	S 40 W						
		70	M							
		60	¾	N 63 W						
		50	0	N 28 W						
		40	0	N 25 E						
		30	M							
		20	M							
		M	M							

REMARKS:- _____

DDH 407

GEOPEKO LIMITED

D.D.H. No.: 407

Location:

No. 2 Orebody South.

Purpose of Hole:

To test southern extension No. 2 Orebody and locate Grassy Granite contact.

Hole Proposed by:	M. Danielson		Date	April, 72
Surveyed in by:	P. Morrison		Date	22/6/72
Proposed:	220200	E	563880	N
Surveyed:	220,199.08	E	563,879.07	N
Actual from which Drilled:	220199.08	E	563879.07	N

Reduced Level of Collar: + 12.849 m

Bearing:- Grid Magnetic

Inclination:- Vertical degrees

Target; depth: 225 m ~~ft.~~

Planned depth: 290 m ~~ft.~~

Actual Depth: 281.33 ~~ft.~~

Date Commenced: 21/5 /72

Date Completed: 1/9 /72

Wedges Placed:

Nil

Extensions (if any)

Nil

Checked: M. Danielson

Summary Result: C lens horizon intersected - 232 m but unmineralised. Hole stopped in granite 281.33.
231.6 - 232.6 1 m at 0.96% WO_3.

Remarks:

Cased to 194' then casing cemented 20' above and below -194' level.
Hole left open for water testing.

DRILL LOG DDH: 407

00 - 27.74

Predrilled. No core.

27.74 - 174.0 VOLCANICS

Grey green volcanics; spotted with dark grey to black spots up to 3 mms. across. Spots are mostly chlorite although there are irregular shaped clusters of actinolite laths which also add to the "spotted" appearance. Heavily fractured to 36 metres.
RQD 27.74 - 36.0 = 5.5%

Volcanics then become more competent and except for some minor zones. e.g.

38.5 - 39.0
41.5 - 42.0 } heavy fracture.
49.0 - 51.2

RQD 36.0 - 45.0 = 69.4%
45.0 - 48.0 = 10.3%
48.0 - 49.0 = 83.0%
49.0 - 51.2 = 22.7%

Minor carbonate developing on joint planes below 51 metres. Above 51 metres joint coating is mostly chlorite with some minor clay.

RQD 51.2 - 53.0 = 61.2%
53.0 - 59.0 = 80.9%
59.0 - 82.0 = 79.8%

Minor aplite 73.78 - 74.02 metres. Minor sulphide on joint planes 66.5 metres.

RQD 82.0 - 106.0 = 86.7%

Aplite 83.19 - 84.43

Spotted green volcanics continue to 121.5 metres. Core heavily fractured 118 - 121 metres.

RQD 106.0 - 118.0 = 81.6%
118.0 - 121.0 = 28.3%
121.0 - 129.0 = 93.6%

Volcanics appear very fragmental, agglomeratic, tuffaceous in a mica rich groundmass 121.50 to 132.70.

132.70 - 132.80 Pale green very fine grained pure pyroxene hornfels.

Volcanics then continue fragmental with fragments up to 3 cms dia. although usually 1 cm. Often a weak shear foliation is developed in the mica rich groundmass.

Marble 136.05 - 136.30 Pale white featureless and barren of mineralisation.

Between 138 and 141.50 some rafts of Ph up to 10 cms long are enclosed in the volcanics. The pyroxene hornfels in turn often contains smaller inclusions of volcanics.
Minor sulphide on joint planes 150 - 152 metres.

149.7 - 150.3 irregular rafts of biotite hornfels and pyroxene hornfels caught up in volcanics.

RQD 129 - 153 = 83.7%

Volcanics are more rich in pyroxene below 155 metres.
Marble 157.72 - 158.82. White and barren of mineralisation.

Weakly sheared volcanics continue to 174 metres.

174.0 - 223.45 HANGING WALL BIOTITE HORNFELS

Predominantly a grey purplish brown barren hornfels.
174.0 - 174.10 grey actinolite Hf.
174.10 - 175.10 mainly Ph with some banding at 25° to LAOC.
175.1 and below is mainly a purplish brown with pale whitish spots up to 5 mms diameter. This spotting probably relates to the "flaggy" Bh in DDH's 404 and 403.

186.0 - 186.1 Ph.

RQD 153.0 - 177.0 = 89.5%
177.0 - 200.0 = 62.8%

Some banded Ph 191.4 - 191.6 with banding at 58° to core axis. Ph again at 197.5 - 199.5 with banding at 55° to core axis.

Bah is not spotted below 200 metres.

Bedding 205 metres 67° to LAOC
209 metres 53° to LAOC

Ph 209.94 - 211.0
Bah with minor Ph inclusions to 223.45. Generally low fracture except 219 - 223 metres which is intermediate to high.

RQD 200.0 - 219.0 = 84.3%
219.0 - 223.45 = 37.5%

223.45 - 231.6 PYROXENE GARNET HORNFELS

Very biotite rich Pgh but small (up to 2 cms) carbonate ovoids rimmed with grossular garnets are evident.

Bedding in Pgh apparent.

224 m	62°	LAOC
228 m	58°	"
231 m	56°	"

Minor scheelite developed 229.2 - 231.0 metres.

231.6 - 232.2 SKARN

Pyroxene rich andradite skarn with moderate scheelite mineralisation.

232.2 - 248.7 MARBLE

A dirty grey banded marble. Barren of mineralisation. Some pyroxene hornfels and grossular garnet is developed.

237.8 - 238.3
239.0 - 239.5 } minor scheelite
240.35 - 240.75

244.4 - 248.7 Pyroxene rich Ch.

248.7 - 249.6 PYROXENE HORNFELS

A splotchy pyroxene rich hornfels with abundant grossular garnets and irregular shaped inclusions of biotite hornfels. A hybrid rock exhibiting much mobility.

Minor scheelite 248.7 - 248.9 (No assay).

249.6 - 253.6 BIOTITE HORNFELS

Purplish brown biotite hornfels with minor bands of Ph. Does not appear typical banded Bh/Ph. Some grossular garnet and pyroxene bands 252.4 - 252.8. No scheelite. The Bh is slightly fragmental with white fragments, angular, usually <1 cm in diameter but one up to 5 cms.

253.6 - 268.2 BANDED BIOTITE HORNFELS

Banded purplish black biotite hornfels, thinly banded. Some pale grey actinolite hornfels interbedded. Minor Ph. Also some weak black spotting.

268.2 - 269.6 BANDED FOOTWALL BEDS

Minor scheelite in a pyroxene rich grossular garnet, weakly banded rock.

269.6 - 270.5 GRANITE

Coarse grained porphyritic pink granite.

270.5 - 274.16 BANDED FOOTWALL BEDS

Partially replaced, pyroxene rich as above. Banding 65^{o} to LACC.

274.16 - 281.33 GRANITE

Weakly porphyritic fresh pink granite. Does not display chilled margins but does have some finer grained versions.

E.O.H. 281.33 metres.

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 407

Logged By : M.J.D.

Sample No.	FOOTAGES			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
C 0246	229	230	1.0	0.33	<0.01	—	
7	230	231	1.0	0.13	"		
C 0248	231.6	232.6	1.0	0.96	0.03	—	
C 0249	236.6	237.6	1.0	0.27	0.01	—	
50	237.6	238.6	1.0	0.17	<0.01		
1	238.6	239.6	1.0	0.04	"		
2	239.6	240.6	1.0	0.13	"		
3	240.6	241.6	1.0	0.18	0.01		
C 0265	268	269	1.0	0.04	<0.01		
6	269	270	"	0.02	"		
C 0267	270.5	271.5	"	0.58	0.01		
8	271.5	272.5	"	0.93	0.02		
9	272.5	273.5	"	0.37	<0.01		
C 0270	273.5	274.5	"	0.02	"		

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 407 Date Surveyed 1.9.72

Total Depth 923 (281.33m) Depth Surveyed To 890 (271.27m)

Casing Depth 195 Surveyed By S.C

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0				22		370	2°	W
2	1	S			23		390	2°	N80W
3	2	10			24		410	3°	N85W
4	3	10	0°		25		430	3°	W
5	4	10	0°		26		450	4°	W
6	5	10	M		27		470	4½°	S80W
7	6	M	M		28		490	6°	S80W
8	7	30	M		29		490	6°	S80W
9	8	50 m? 70	M		30		510	6½°	S80W
10	9	90	0.75	S3W	31		530	7°	S75W
11	10	110	0		32		550	8°	S75W
12	11	M	0		33		570	9°	S77W
13	12	M	M		34		590	10°	S82W
14	13	190	0		35		610	11°	S85W
	14	210	0		36		630	12°	S85W
	15	230	0.75	S70W	37		650	14°	S80W
	16	250	0.75	S53W	38		670	15°	S80W
	17	270	0		39		690	15½°	S85W
	18	290	0		40		710	16½°	S85W
	19	310	1°	N80W	41		730	16½°	S85W
	20	330	1½°	N75W	42		750	17°	S85W
	21	350	2°	N80W	43		770	17°	S85W

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 407 Date Surveyed 1.9.72

Total Depth 923' Depth Surveyed To 900'

Casing Depth 195' Surveyed By P.C

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
45	44	790 790	17°	W		66	530 530	4°	W
	45	810 810'	17°	S85W		67	510 490 M?	3°	W
	46	830 830	18°	S85W		68	470 470	3°	N85W
	47	850 850	18°	S85W		69	450 450	2°	N80W
	48	870 870	18°	W		70	430 430 M?	2°	W
	49	890 890	"	S85W		71	410 390 390	2°	N80W
	50	913'				72	370 370 M?	1½°	N75W
	51	913				73	350 350 M?	1°	N80W
	52	913				74	330 M 330	0	
	53	890 890 890	15½°	S85W		75	310 290 290	0	
	54	870 870 M?	15°	S80W		76	270 250 M?	0.75	S53W
	55	830 830 830 M?	11°	S80W		77	230 230	0.75	S70W
	56	810 810	12°	S85W		78	210 210	0	
	57	790 M?	11°	S85W		79	190 190 M?	0	
	58	770 770 M?	10°	S82W		80	170 150 150	M	
	59	750 730 730	9°	S77W		81	130 130	0	
	60	710 690 690	8°	S75W		82	110 110	0	
	61	670 670	7°	S75W		83	90 70 70 M?	0.75	S3W
	62	650 630 630	6½°	S80W		84	50 50	M	
	63	610 610	6°	S80W		85	30 30	M	
	64	590 M	6°	S80W		86	30	M	
	65	570 550 550	4½°	S80W		87	30 ?	0°	
						88	10	0°	
						89	10		
						90	5		
						91	5		
						92			
						93			
						94			

REMARKS:-

Sheet No. ... of ...

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 407 — Date Surveyed 1.9.72

Total Depth 923 — Depth Surveyed To 890

Casing Depth 195 — Surveyed By

Depth Feet	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords N/S	Sum of Co-Ords E/W
10	0	0											
70	0	0											
110	0	0											
190	0	0											
210	0	0											
[redacted]	0	0											
250	0	0											
290	0	0			298 (8.39)	—	—	—		—	—	—	—
310	1	1 00	.9998 / .0175	20.00	310	0.35	N 80 W	N 80 W	.1736 / .9848	N .06	W .34	N .06	W .34
330	1 30	1 30	.9997 / .0262	19.99	329.99	0.52	75 W	75	.2588 / .9659	.13	.50	.19	.84
350	2 00	2 00	.9994 / .0349	19.99	349.98	0.70	80 W	80	.1736 / .9848	.12	.69	.31	1.53
370	2 00	2 00	.9994 / .0349	19.99	369.97	0.70	W	W	0 / 1.000	—	.70	.31	2.23
390	2 00	2 00	.9994 / .0349	19.99	389.96 (18.86)	0.70	N 80 W	N 80 W	.1736 / .9848	.12	.69	.43 (.13)	2.92 (.69)
410	3 00	3 00	.9986 / .0523	19.97	409.93	1.04	85 W	85	.0872 / .9962	.09	1.39	.52	4.31
430	3 00	3 00	.9986 / .0523	19.97	429.90	1.04	W	W	0 / 1.0	—	1.04	.52	5.35
450	4 00	4 00	.9976 / .0698	19.95	449.85	1.40	W	W	0 / 1.0	—	1.40	.52	6.75
470	4 30	4 30	.9969 / .0785	19.94	469.79	1.57	S 80 W	S 80 W	.1736 / .9848	S .27	1.55	.25	8.30
490	6 00	6 00	.9945 / .1045	19.89	489.68 (19.89)	2.09	80	80	.1736 / .9848	.36	2.06	S .03 / .11	3.16 / 10.36
510	6 30	6 30	.9936 / .1132	19.87	509.55	2.26	80	80	.1736 / .9848	.39	2.23	.50	12.59
530	7 00	7 00	.9925 / .1219	19.85	529.40	2.44	75	75	.2588 / .9659	.63	2.36	1.13	14.95
550	8 00	8 00	.9903 / .1392	19.81	549.21	2.78	75	75	.2588 / .9659	.72	2.68	1.85	17.63
570	9 00	9 00	.9877 / .1564	19.75	568.96	3.13	77	77	.2250 / .9744	.70	3.05	2.55	20.68
590	10 00	10 00	.9848 / .1736	19.70	588.66 (19.70)	3.47	82	82	.1392 / .9903	.48	3.44	3.03 (.92)	24.12 (3.35)
610	11 00	11 00	.9816 / .1908	19.63	608.29	3.82	85	85	.0872 / .9962	.33	3.81	3.36	27.93
630	12 00	12 00	.9781 / .2079	19.56	627.85	4.16	85	85	.0872 / .9962	.36	4.14	3.72	32.07
650	14 00	14 00	.9703 / .2419	19.41	647.26	4.84	80	80	.1736 / .9848	.84	4.77	4.56	36.84
670	15 00	15 00	.9659 / .2588	19.32	666.58	5.18	80	80	.1736 / .9848	.90	5.10	5.46	41.94
690	15 30	15 30	.9636 / .2672	19.27	685.85 (19.27)	5.34	85	85	.0872 / .9962	.46	5.32	1.80 / 5.92	14.40 / 47.26
710	16 30	16 30	.9588 / .2840	19.18	705.03	5.68	85	85	.0872 / .9962	.47	5.66	6.39	52.92

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 407 Date Surveyed

Total Depth Depth Surveyed To 890

Casing Depth Surveyed By

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords.		Sum of Co-Ords	
										/S	/W	/S	W
730	16 30	16 30	.9588 / .2840	19.18	724.21	5.68	S 85 W	S 85 W	.0872 / .9962	.49	5.66	6.88	58.58
750	17 -	17 00	.9563 / .2924	19.13	743.34	5.85	85	85	.0872 / .9962	.51	5.83	7.39	64.41
770	17 -	17 00	.9563 / .2924	19.13	762.47	5.85	85	85	.0872 / .9962	.51	5.83	7.90	70.24
790	17 -	17 00	.9563 / .2924	19.13	781.60	5.85	W	W	0 / 1.0	—	5.85	7.90	76.09
810	17 -	17 00	.9563 / .2924	19.13	[illegible]	5.85	S 85 W	S 85 W	.0872 / .9962	.51	5.83	8.41	81.92
830	18 -	18 00	.9511 / .3090	19.02	819.75	6.18	85	85	.0872 / .9962	.54	6.16	8.95	88.08
850	18 -	18 00	.9511 / .3090	19.02	838.77	6.18	85	85	.0872 / .9962	.54	6.16	9.49	94.24
870	18	18 00	.9511 / .3090	19.02	857.79	6.18	W	W	0 / 1.0	—	6.18	9.49	100.42
890	18 -	18 00	.9511 / .3090	19.02	876.81	6.18	S 85 W	S 85 W	.0872 / .9962	.54	6.16	10.03	106.58

DDH 407

Total depth 923'

Surveyed to 890'

Casing to 195'

date surveyed 1.9.72

290'

290'

MAG. N.

TSG. N

490' N9°35

490

TSG

90°

DDH 406.

GEOPEKO LIMITED

D.D.H. No.: 406

Location:
Sea dump No. 2 Orebody area.
cross section 220100 E
long section 563960 N

Purpose of Hole:
To test southern extension of No. 2 Orebody and relation to section 00 of No. 1 Orebody.

Hole Proposed by: M. Danielson, P. Cottam. Date April, / 72

Surveyed in by: P. Morrison Date 3/10/72

Proposed:	220100	E	563960	N
Surveyed:	220100.0	E	563960.05	N
Actual from which Drilled:	220100.0	E	563960.05	N

Reduced Level of Collar: +13.56 m

Bearing:- I.S.G. Grid Magnetic

Inclination:- Vertical degrees

Target; depth: 190 m ft.

Planned depth: 270 m ft.

Actual Depth: 277.37 m ft.

Date Commenced: 7/9 /72

Date Completed: 31/10/72

Wedges Placed:
Nil

Extensions (if any)

Checked: M. Danielson

Summary Result:

195 - 197	2m	at	0.50% WO_3	B lens
222 - 224	2m	at	0.76% WO_3	C lens
225 - 227	2m	at	0.35% WO_3	C lens

Remarks:

0 - 91.13 NQ
91.13 - 277.37 BQ

DRILL LOG DDH: 406

No Core 00 - 23.16 metres.

23.16 - 150.11 UPPER VOLCANICS

Fresh, hard, light grey-green, actinolite rich metavolcanic. Texture is weakly spotted (although intense in part) - the spots representing clusters of actinolite - ore occasionally chlorite filled vesicles (?)

Jointing is moderate in intensity with clay on joint planes to 36.0 metres and then chlorite becoming more frequent.

Aplite 33.23 - 34.50
43.90 - 44.60
49.65 - 51.10

Very prominent spotting 23.16 - 26.0
45.0 - 45.8
51.1 - 51.5
56.2 - 56.5
67.8 - 68.2

Fault 44.6 - 44.87. Fragments of volcanics (3 cms dia) recemented in a predominantly chlorite matrix.

Aplite 81.25 - 81.76

Minor molybdenum 85.20 metres.
1 cm wide carbonate vein 87 metres.
Abundant thin carbonate veining 85.75 - 86.0

91.13 NQ core size reduced to BQ.

Aplite 91.68 - 91.88

Abundant spotting
96.0 - 97.0
108.0 - 109.0 } spots up to 1.5 cms dia.
111.0 - 112.0
Quartz vein 111.0 - 111.03.
Below 136 metres the volcanics are much more pyroxene rich with a mottled sheared texture. Some banding at 45° to LAOC begins to appear from 147.50

150.11 - 171.50 B LENS HORNFELS

Increasing bands of Ph in a predominantly Bh rock to 160 metres then becoming a uniformly banded Bh/Ph showing evidence of great mobility between the beds.

Banding is as follows -

164 m	58°	to	LAOC
165	60°	"	"
166	32°	"	"
167	25°	"	"

Aplite 159.70 - 159.77
160.22 - 160.25

171.50 - 186.0 TUFFITE

Very pyroxene rich rock with a mottled agglomeratic texture. Very similar in appearance to older volcanics. Slightly spotted appearance is probably due to clusters of actinolite and / or chlorite.
Minor disseminated chalcopyrite 182.0 - 183.5.

186.0 - 189.4 PYROXENE HORNFELS

Mainly a Ph with some weakly developed skarn. Very minor disseminated scheelite.

189.40 - 196.63 MARBLE

A dirty grey mostly barren marble. Some very minor scheelite. Some banding

189 m 60° to LAOC.
195 m 43° to LAOC.

196.63 - 200.95 TUFFITE

As described previously.
Minor Ph banding 67° 200.95 - 201.25.

201.25 - 203.45 MARBLE

Banding at 50° to LAOC.
Some very weak disseminated scheelite.

203.45 - 205.50 TUFFITE

As before.

205.50 - 218.77 BANDED Bh/Ah HANGINGWALL HORNFELS

A thinly banded pale grey and purplish hornfels. Minor carbonate and grossular garnet. 207.35 - 207.40 with minor scheelite. Banding

207 54° to LAOC
218 71° to LAOC.

218.77 - 226.40 PYROXENE GARNET HORNFELS

A very Ph and grossular garnet rich Pgh, with much evidence of soft sediment mobility. Some calcite ovoids up to 5 cms dia. although most less than 1 cm. Moderate disseminated scheelite throughout. Minor interbeds of banded Bh/PL

223.6 - 223.9 banding 74°
224.85 - 225.15 " 32°
225.75 - 226.15 " 58°

226.40 - 226.92 C LENS

A Ph rich banded skarn. Banding at 75°. Good disseminated scheelite.

226.92 - 238.80 BANDED Bh/Ph

A thinly banded (<2 cms) purplish brown and pale green hornfels. Banding

227 m 60°
229 m 66°
231 m 65°
236 m 65°

238.8 - 241.6 UNREPLACED BANDED FOOTWALL BEDS

A banded Bh/Ph/Gh/Ch rock. Mostly Bh/Ph with less frequent bands of marble (no scheelite) and grossular garnet. Banding thin usually less <5 cms.

237 m 31°
239 m 50°

241.6 - 242.93 OLDER VOLCANICS

Purplish grey, faintly spotted, weakly agglomeratic texture. Spotting is probably amphibole or chlorite. No scheelite or obvious banding.

242.93 - 251.0 UNREPLACED BANDED FOOTWALL BEDS

As before. Banding

243 m	38°
245 m	40°
247 m	32°
250 m	30°

251.0 - 254.4 OLDER VOLCANICS

As before.

254.4 - 257.93 BANDED Bh/Ph

Banding thin and well defined.

255 m	32°
256 m	45°

257.93 - 277.37 GRANITE

Heavily fractured to 263.2 then competent low fracture whitish pink, slightly porphyritic granite.

E.O.H. 277.37 metres.

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 406

Logged By : M.D.

Sample No.	FOOTAGES			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
C 0702	186	187	1.0	0.04	<0.01		
3	187	188	"	0.05	<0.01		
4	188	189	"	0.09	<0.01		
C 0705	189	190	"	0.34	<0.01		
C 0706	195	196	"	0.46	<0.01		
7	196	197	"	0.54	0.01		
C 0708	197	198	"	0.02	<0.01		
C 0717	201	202	"	0.10	<0.01		
8	202	203	"	0.04	<0.01		
C 0719	203	204	"	0.07	<0.01		
C 0709	219	220	"	0.14	<0.01		
10	220	221	"	0.15	<0.01		
1	221	222	"	0.98	0.03		
2	222	223	"	0.54	0.01		
3	223	224	"	0.04	<0.01		
4	224	225	"	0.03	<0.01		
5	225	226	"	0.33	0.01		
C 0716	226	227	"	0.37	<0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 406

Logged By : M.J. DANIELSON

Sample No.	FOOTAGES ~~metres~~ From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
C 0702	186	187	1.0	0.04	(0.01		
3	187	188	1.0	0.05	(0.01		
4	188	189		0.09	(0.01		
C 0705	189	190		0.34	0.01	B	1m at 0.34%
C 0706	195	196		0.46	(0.01	B	2m at 0.5%
7	196	197		0.54	0.01		
8	197	198		0.02	(0.01		
C 0717	201	202		0.10	(0.01		
8	202	203		0.04	(0.01		
9	203	204		0.07	(0.01		
C 0709	219	220		0.14	(0.01		
10	220	221		0.15	(0.01		
1	221	222	1	0.98	0.03	C	2m at 0.76%
2	222	223	1	0.54	0.01	C	
3	223	224		0.04	(0.01	C	6m
4	224	225		0.03	(0.01	C	
5	225	226		0.33	0.01	C	
C 0716	226	227		0.37	(0.01	C	2m at 0.35
				6|229 -38			

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 406 — Date Surveyed 1.11.72

Total Depth 910' — Depth Surveyed To 873'

Casing Depth 300' — Surveyed By P.C. G.M

Depth	Drift Angle	Mean Drift Angle	Cos Sine .9998 .0175	Vert. Depth cos x l	True Vert. Depth	Defl. Sin x l	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords N/S	Sum of Co-Ords E
90	1°		.9994	89.98	89.98	1.575				1.113	1.113	1.113	1.113
190	2°		.0349	99.96	188.92	3.49						1.09	1.09
					27.42							2.47	2.47
310	3°		.9986 .0523	119.83	308.75	6.27	S45W		.7071 .7071	4.43	4.43	3.583 8.013	3.583 8.013
					94.11								
330	3°			19.97	328.72	1.046	S46W		.6947 .7193	0.75	0.727	2.67 8.763	2.67 8.74
					20.14								
350	3°				106.28 348.69	1.046	S45W		.7071	0.75	"	9.513	9.467
370	3°				112.36 368.66	1.046	S50W		.6428 .7660	0.75	"	10.26	10.194
390	3°				118.45 388.63	1.046	S54W		.5878 .8090	0.75	"	3.36 11.013	3.33 10.921
410	4°		.9976 .0698	19.95	124.53 408.58	1.40	S62W		.4695 .8829	0.657	1.236	11.67	12.157
430	5°		.9962 .0872	19.92	130.6 428.5	1.74	S66W		.4067 .9135	0.708	1.589	12.378	13.746
450	5°				136.68 448.42	1.74	S64W		.4384 .8988	0.762	1.564	4.00 13.14	4.66 15.31
470	5°				142.75 468.34	1.74	S63W		.4540 .8910	0.790	1.55	13.93	16.86
490	5°				148.82 488.26	1.74	S62W		.4695 .8829	0.817	1.536	14.747	18.396
510	5°				154.89 508.18	1.74	S63W		.4540 .8910	0.790	1.850	15.537	19.946
530	4°		.9976 .0698	19.95	160.97 528.13	1.40	S64W		.4384 .8988	0.657	1.236	4.94 16.194	6.45 21.18
550	4°				167.05 548.08	1.40	S68W		.3746 .9272	0.526	1.298	16.718	22.478
570	4°				173.13 568.03	1.40	S75W		.2588 .9659	0.362	1.352	17.08	23.832
590	4°				179.22 587.98	1.40	S75W		"	0.362	1.352	17.442	25.18
610	4½°		.9969 .0785	19.94	185.3 607.92	1.57	S75W			0.406	1.516	5.44 17.848	8.14 26.7
630	5°		.9962 .0872	19.92	191.36 627.84	1.744	S70W		.3420 .9397	0.595	1.635	18.444	28.33
650	5°				197.44 647.76	1.74	S76W		.2419 .9703	0.421	1.688	18.86	30.02
670	5°				203.5 667.68	1.74	S80W		.1736 .9848	0.302	1.713	19.166	31.734
690	6°		.9945 .1045	19.89	687.57	2.09	S81W		.1564 .9877	0.327	2.064	5.94 19.493	10.30 33.8
710	7°		.9925 .1219	19.85	215.62 707.57	2.438	S83W		.1219 .9925	0.297	2.420	19.79	36.22
730	8°		.9903 .1392	19.81	221.65 727.23	2.786	S84W		.1045 .9945	0.291	2.769	20.08	38.99
750	8½°		.9890 .1478	19.78	227.68 747.01	2.956	S85W		.0872 .9962	0.258	2.945	20.334	41.93
770	9°		.9877 .1564	19.75	233.71 766.96	3.128	S85W		.0872 .9962	0.273	3.116	6.28 20.61	13.73 45.05
810	9°				239.72 786.51	"	S85W			0.273	3.116	20.88	48.166
830	9°				245.75 806.26	"	S83W		.1219 .9925	0.361	3.104	21.26	51.27
850	9°				251.77 826.01	"	S88W		.0349 .9994	0.109	3.126	21.37	54.396
873	9°				257.79 845.76	"	S89W		.0175 .9998	0.054	3.127	6.53 21.43	17.53 57.523

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 406 Date Surveyed 1.11.72

Total Depth 910' Depth Surveyed To

Casing Depth 300' Surveyed By J.C. G.M.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
1	0	0			22	410	410	4°	S62W
	1	S			23	430	430	5°	S66W
	2	S			24	450	450	5°	S64W
	3	S			25	470	470	5°	S63W
	4	S			26	490	490	5°	S62W
	5	13			27	510	510	5°	S63W
	6	13	1°	S60W	28	530	530	4°	S64W
	7	30			29	550	550	4°	S68W
	8	M			30	570	570	4°	S75W
	9	90	1½°		31	590	590	4°	S75W
	10	110 m			32	610	610	4½°	"
	11	150	1½°		33	630	630	5°	S70W
	12	m			34	650	650	5°	S76W
	13	190	2°		35	670	670	5°	S80W
	14	m			36	690	690	6°	S75W
	15	m			37	710	710	7°	S80W
	16	290	3°		38	730	730	8°	S81W
	17	310	3°	S45W	39	750	750	8½°	S83W
	18	330	3°	S46W	40	770	770	9°	S84W
	19	350	3°	S45W	41	790	m		
	20	370	3°	S50W	42	810	810	9°	S85W
	21	390	3°	S54W	43	830	830	9°	S85W

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 406 Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
44	44	850 850	9°	S85W		66	740 740sm			
	45	870 870	9°	S83W		67	730 730			
	46	878	9°	S88W		68	720 720			
	47	878	9°	S89W		69	700 700sm			
	48	873	"	"		70	690 690			
	49	873	"	"		71	690 690			
	50	873	"	"		72	690 690			
	51	870				73	690			
	52	878 870				74	690			
	53	870				75	690			
	54	860 860				76	680 m			
	55	860 870				77	670			
	56	850 850				78	660 660			
	57	840 m				79	640 m			
	58	830 m				80	630 630sm			
	59	820 820				81	620 610sm			
	60	810 m.				82	600 600			
	61	800 800sm				83	590 m			
	62	790 m				84	580 570sm			
	63	780 780				85	560 560			
	64	770 770				86	560 560sm			
	65	760 760sm				87	540 540			

REMARKS:- sm Slight movement.

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 406 Date Surveyed _____

Total Depth 910 Depth Surveyed To _____

Casing Depth 300 Surveyed By _____

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
	88	530 m			101					
	89	520 510 m			111					
	90	500 500			112					
	91	490 m			113					
	92	480 470			114					
	93	460 m			115.					
	94	440 440			116					
	95	430 m			117.					
	96	420 m			118.					
	97	390 m			119.					
	98	380 380			120.					
	99	370 m			121					
	100	360 m			122					
	101	340 350			123					
	102	340			124					
	103				125					
	104				126					
	105				127					
	106				128					
	107				129	S.				
	108				130					
	109				131					

REMARKS:- 380' Last accurate measurement.

Shot Nos 99 — 128 not recorded.

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 406 Date Surveyed 30.10.72

Total Depth 879' Depth Surveyed To

Casing Depth 300' Surveyed By P.C.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
1	0	●				22	450			
	1	S				23	470			
	2	S				24	490			
	3	S				25	510			
	4	13'				26	530			
	5	30 M?				27	550			
	6	30				28	570			
	7	50				29	590			
	8	70 90 M?				30	610			
	9	90 110				31	630			
	10	130 M				32	650			
	11	150 170				33	670			
	12	190 M				34	690			
	13	210 230				35	710			
	14	250 270				36	730			
	15	270 290				37	750			
	16	310 330				38	770			
	17	350 350				39	790			
	18	370 370				40	810			
	19	390 390				41	830			
	20	410 410				42	850			
	21	430 430				43	873			

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 406 Date Surveyed 30.10.72

Total Depth _____ Depth Surveyed To _____

Casing Depth 300' Surveyed By P.C.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
	44	873				66	250 M			
	45	873				67	230 210 210 M?			
	46	873				68	190 170 170			
	47	873				69	150 M			
	48	873				70	130 110 M			
	49	873				71	90 70 70 M			
	50	850 850				72	50 30 30			
	51	830 810 810				73	10			
	52	790 770 M?				74	S			
	53	750 M				75	S			
	54	730 710 710 M?				76				
	55	670 M?				77				
	56	650 630 630 M?				78				
	57	610 590 590 M?				79				
	58	570 550 550 M?				80				
	59	530 510 510 M				81				
	60	490 470 M				82				
	61	450 430 M				83				
	62	410 390 M 390?				84				
	63	370 350 M								
	64	330 310 310 M?								
	65	290 270 270								

REMARKS:-

S

N

W

E

DDH LL06

DEPTH 910'

SURVEYED PC
TO 873'

SCALE 1: 500

LOCATED 1/6 IN M9

563,955.38 N

226,690.00 E

+194.57 RL

DIP APPROX 73°

100

200

300

400

500

600

700

800

900

-194.57 RL

Dip Approx 73°

330 -100

350 -100

450 -100

500 -100

520

530

600

610

670

770

873'
end of survey

873'
end of survey

N

Scale 1:500

DDH 1-06

PLAN VIEW

450'

610'

770

DIRECTION OF 'S' SECTION

LOCATION: NO. 2 OREBODY

CO-ORDINATES: 564 119.91N 220 082,82E

R.L.: + 8049m

DATE COMMENCED: 19/11/1971

DATE COMPLETED: 27/11/1971

FINAL DEPTH: 152.65m

DATE SURVEYED: 28/11/1971

LOGGED BY: M.J. DANIELSON

INCLINATION VERTICAL

GEOPEKO LIMITED, KING ISLAND.

DIAMONI

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS WO3	ASSAYS MO	
		DIAMOND DRILL HOLE 405					
							Mo
C 0001	35.5	36.0	0.5		0.25	0.02	0.02
2	36.0	36.5		.5	0.07	0.01	0.11
3	36.5	37.0			8.90	0.21	
4	37.0	37.5		.97	0.91	0.03	0.035
5	37.5	38.0			1.04	0.04	
6	38.0	38.5		1.32	0.57	0.04	0.045
7	38.5	39.0			2.08	0.05	
8	39.0	39.5		.46	0.72	0.03	0.02
9	39.5	40.0			0.21	0.01	
10	40.0	40.5		.25	0.10	0.01	0.01
11	40.5	41.0			0.40	0.01	
12	41.0	41.5		.05	0.03	0.01	
13	41.5	42.0			0.07	0.01	
14	42.0	42.5		.19	0.36	0.01	0.01
15	42.5	43.0			0.02	0.01	

DRILL LOG

DRILL HOLE No. 405

UNIT	GEOLOGICAL DESCRIPTION	FRACTUI
	DDH 405 was pre drilled to 40 feet (12.19m) with casing seated to 38 feet (11.58m). Depth to bedrock in this locality was uncertain and could have been as high as 28 feet (8.53m)	
Y.V(?) BIOTITE HORNFELS 12.34 - 26.0 27.8	Purplish grey fine grained hornfelsic granular texture, becomes pyroxene rich 13.54 - 13.77m. which is also a zone of very heavy fracture. Aplite 14.30 - 14.62m. Shattered contacts particularly footwall. Biotite hornfels takes on a spotted appearance 15.40m to 18.20m and then again from 19.20m to 22.33m. Aplite 20.05 - 20.85m. Contains minor blood red mineral (jasper). Extensive carbonate veining on the footwall contact. Spotted biotite hornfels 23.85 - 25.60m. 27.5 - 27.8m very biotite rich hornfels with spots of biotite usually less than 1mm dia.	
PYROXENE HORNFELS 27.8 - 28.3	Pale green hornfels, low fracture with bedding not apparent.	
BIOTITE HORNFELS 28.3 - 30.0	Pale purplish grey biotite hornfels. Bedding at 35^{o} - 40^{o} to core axis	
BIOTITE/PYROXENE HORNFELS 30.0 TO 34.3	Predominantly a purplish biotite hornfels with occassional interbeds of a pale green pyroxene hornfels. Pyroxene bands vary in width from 50 cm down to less than 1 cm.	

GEOPEKO LIMITED, KING ISLAND. DIAMOND

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS			
16	43.0	43.5			0.05	0.01		
17	43.5	44.0		.03	0.02	0.01		
18	44.0	44.5		.12	0.17	0.01		
19	44.5	45.0			0.08	0.01		
20	45.0	45.5		.16	0.04	0.01		
21	45.5	46.0			0.29	0.01		
22	46.0	46.5		.01	0	0.01		
23	46.5	47.0			0	0.01		
24	47.0	47.5		.16	0.07	0.01		
25	47.5	48.0			0.25	0.01		
26	48.0	48.5		.55	0.59	0.02		
27	48.5	49.0			0.48	0.03		
28	49.0	49.5		.12	0.45	0.01		
29	49.5	50.0			0.99	0.01		
30	50.0	50.5		.26	0.52	0.02		
31	50.5	51.0			0.01	0.01		
32	51.0	51.5		.01	0.01	0.01		
33	51.5	52.0			0.01	0.01		
34	52.0	52.5		.02	0.02	0.01		
35	52.5	53.0			0.02	0.01		
36	53.0	53.5		.01	0.01	0.01		
37	53.5	54.0			0.02	0.01		
38	54.0	54.5		.02	0.02	0.01		
39	54.5	55.0			0	0.01		
C.0040	68.5	69.0			0.02	0.01		
41	69.0	69.5			0.02	0.01		
42	69.5	70.0			0.01	0.01		
43	70.0	70.5			3.18	0.06		
44	70.5	71.0			0.24	0.01		
45	71.0	71.5			0.07	0.01		
46	76.0	76.5			0.54	0.06		
47	76.5	77.0			0.15	0.01		
48	89.5	90.0			0.87	0.02		
49	90.0	90.5			0.04	0.01		
50	90.5	91.0			1.50	0.04		
51	91.0	91.5			0.17	0.01		

DRILL LOG

DRILL HOLE No. 405

UNIT	GEOLOGICAL DESCRIPTION	FRACTURE
PYROXENE HORNFELS 34.3 - 35.7	Pale green pyroxene hornfels, low fracture. No sign of mineralisation.	
BIOTITE/PYROXENE HORNFELS 35.7 - 37.4	Interbedded Bh and Ph with minor skarn developed containing disseminated scheelite. A coarse scheelite vein at 36.6m is 3-4 cms. wide.	
GARNET SKARN 37.4 - 39.75	An impure skarn with frequent interbeds of Bh and Ph, 2 - 3 cms wide, and not mineralised. Moderate disseminated scheelite. Fracture generally low to intermediate but high 38.9 - 39.5m skarn is very pyroxene rich over the las 20 cms.	
MARBLE 39.75 - 40.35	Pale grey, irregular joint directions, low fracture. No scheelite mineralisation.	
SKARN/Ph/Ch 40.35 - 42.6	Generally high fracture, scattered mineralisation. 42.44 - 42.75 10 cm lost core	
MARBLE 42.6 - 44.1	As before. No scheelite	
SKARN/Ph/Ch 44.1 - 45.25	Interbedded hornfels	
MARBLE 45.25 - 47.4	As before. Minor disseminated scheelite.	
SKARN/Ph 47.4 - 50.25	Moderate disseminated scheelite. Generally very pyroxene rich with patches of skarn up to 20 cms long.	

GEOPEKO LIMITED, KING ISLAND.

DIAMC

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS	
52	91.5	92.0			0.40	0.01
53	92.0	92.5			0.08	0.01
54	92.5	93.0			0.07	0.01
55	93.0	93.5			0.33	0.01
56	93.5	94.0			0.04	0.01
57	94.0	94.5			0.03	0.01
58	94.5	95.0			0.04	0.01
59	95.0	95.5			0.06	0.01
60	95.5	96.0			0.06	0.01
61	96.0	96.5			0.10	0.01
62	96.5	97.0			0.06	0.01
63	97.0	97.5			0.12	0.01
64	97.5	98.0			0.04	0.01
65	98.0	98.5			0.15	0.01
66	98.5	99.0			0.21	0.01
67	99.0	99.5			0.24	0.01
68	99.5	100.0			0.62	0.03
69	100.0	100.5			0.32	0.02
70	100.5	101.0			0.80	0.02
71	101.0	101.5			0.05	0.01
72	101.5	102.0			1.05	0.04
73	102.0	102.5			1.04	0.04
74	102.5	103.0			0.50	0.02
75	103.0	103.5			0.11	0.01
76	103.5	104.0			1.69	0.04
77	104.0	104.5			0.16	0.03
78	104.5	105.0			0189	0.02
79	105.0	105.5			0.21	0.02
80	105.5	106.0			0.59	0.02
81	106.0	106.5			0.51	0.02
82	106.5	107.0			0.85	0.04
83	107.0	107.5			4.70	0.13
84	107.5	108.0			1.72	0.10
85	108.0	108.5			1.03	0.06
86	108.5	109.0			0.91	0.02
87	109.0	109.5			1.33	0.04
88	109.5	110.0			0.70	0.02
89	110.0	110.5			0.45	0.02
90	110.5	111.0			1.02	0.03
91	111.0	111.5			1.33	0.04
92	111.5	112.0			1110	0.03

D DRILL LOG

DRILL HOLE No. 405

UNIT	GEOLOGICAL DESCRIPTION	FRACTUR
MARBLE 50.25-55.50	Normal marble - very minor disseminated scheelite. Inclusion Ph/Skarn 53.95 - 54.30 containing scattered scheelite.	
BIOTITE HORNFELS 55.5 - 59.0	Very biotite rich hornfels containing spots of reddish brown biotite. Abundant carbonate in matrix - no scheelite mineralisation. Bedding 50° to core axis - fracture in same direction - chlorite on fracture faces.	
PYROXENE HORNFELS 59.0 - 59.5	Usual green pyroxene hornfels.	
BIOTITE HORNFELS 59.5 - 64.0	Minor interbeds of Ch and Ph - still banded indicating B lens hornfelses.	
BIOTITE HORNFELS 64.0 - 66.6	Spotted reddish brown hornfels as before. Abundant carbonate. Main fracture angles are 35° - 40° with minor carbonate fnfillings.	35°
BIOTITE HORNFELS 66.6 - 74.2	Abundant biotite but not spotted as before. Occasional interbeds of pH. Patchy scheelite mineralisation at 70.5m.	
MARBLE 74.20 - 77.3	Minor scattered scheelite at 76.4m .	
BIOTITE HORNFELS 77.3 - 89.10	Hangingwall biotite hornfels. Fracture generally intermediate to heavy with varying joint plane directions.	

GEOPEKO LIMITED, KING ISLAND.

DIAMO

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS			
93	112.0	112.5			1.20	0103		
94	112.5	113.0			0.65	0.01		
95	113.0	113.5			0.76	0.04		
96	113.5	114.0			0.91	0.06		
97	114.0	114.5			3.0	0.13		
98	114.5	115.0			0.02	0.19		
99	115.0	115.5			0.09	0.01		
C 0100	115.5	116.0			0.03	0.02		
1	116.0	116.5			0.36	0.03		
2	116.5	117.0			1.48	0.03		
3	117.0	117.5			0.44	0.02		
4	117.5	118.0			0.36	0.01		
5	118.0	118.5			1.06	0.03		
6	118.5	119.0			0.50	0.01		
7	119.0	119.5			0.65	0.02		
8	119.5	120.0			0.34	0.01		
9	120.0	120.5			0.08	0.01		
C 0110	120.5	121.0			0.09	0.01		
C 0111	128.0	128.5			0.21	0.02		
C 0112	132.0	132.5			0.39	0.04		
3	132.5	133.0			0.10	0.01		
C 0114	136.5	137.0			0.51	0.01		
5	137.0	137.5			4.0	0.09		
6	137.5	138.0			6.5	0.14		

) DRILL LOG

DRILL HOLE No.

UNIT	GEOLOGICAL DESCRIPTION	FRACTURIN
PYROXENE GARNET HORNFELS 89.10 - 99.72	Very competent rock with extremely low facture. A pale greenish white rock with fragments of calcite, often with a garnet rim enclosed in a pyroxene hornfels matrix. Minor disseminated scheelite although the Pgh as a unit would not go ore grade. Some coarse scheelite at 90.5m.	
GARNET SKARN 99.72 - 112.5	Good competent andradite garnet skarn containing abundant disseminated scheelite. Main barren patches within the skarn are Ph and these occur at 100.0 - 100.4m 104.4 - 104.7m 105.8 - 106.0m	
BANDED FOOTWALL BEDS 112.5 - 120.95	Thinly bedded Ph,Bh,Gh and Ch. Bedding mainly at 80° to the core axis. Minor disseminated scheelite with many barren bands interspersed	
BIOTITE PYROXENE HORNFELS 120.95 - 125.65	Very thinly bedded hornfelses, usually beds less than 1 cm thick. No mineralisation. Bedding at 50° to the core axis and the joints are invariably in this direction also.	
BANDED FOOTWALL BEDS 125.65 - 126.10	As above with no sign of mineralisation.	
BIOTITE/PYROXENE HORNFELS 126.10 - 127.75	Thinly bedded, moderate fracture with all joints on bedding planes. Minor scheelite 128.35 - 128.40m	
BANDED FOOTWALL BEDS 127.75 - 135.75	As before . Maximum thickness of beds is 4 cm although usually less than 1 cm. Scattered scheelite 132.0 - 133.0m	
BIOTITE HORNFELS 135.75 - 137.0	Mainly a massive biotite hornfels with no sign of bedding. Becomes spotted towards base with developement of minor mineralisation.	

DRILL LOG

SHEET No. ..5.. of ..5.. (0)

DRILL HOLE No. 405

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
MARBLE 137.0 - 138.0m	Competent marble horizon, low fracture with irregular joint directions. Minor disseminated scheelite.	
OLDER VOLCANICS 138.0 - 143.60	A grey green low fractured spotted basic volcanic rock. The spots appear to be mica porphyroblasts usually 1 - 2 mm dia.	15^{o} 50^{o}
QUARTZITE 143.60 - 152.65	Pale grey dense rock, highly siliceous. Moderate fracture with joints at 30^{o} and 50^{o} Fault breccia zone 146.30 - 147.10m consists of quartz in a chlorite matrix - slickensides observed. The quartzites are often spotted - usually only pin head size spots of mica. Below 148m are more massive, less spotted and much more heavily fractured.	
	152.65 metres END OF HOLE	

NOTE

Older Volcanics

[illegible] - 148.8m

G. Bujtas 1973

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 405

Logged By: M.J.D.

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
C 0001	35.5	36.0	0.5	0.25	0.02		B low.
2	36.0	36.5	0.16	0.07	0.01		
3	36.5	37.0	4.00	8.90	0.21		4.0 m at
4	37.0	37.5		0.91	0.03		1.817 % WO_3
5	37.5	38.0	0.81	1.04	0.04		
6	38.0	38.5		0.57	0.04		4m at 1.03% WO_3
7	38.5	39.0	1.40	2.08	0.05		
8	39.0	39.5		0.72	0.03		
9	39.5	40.0	0.27	0.21	< 0.01		
10	40.0	40.5	0.15	0.10	< 0.01		
1	40.5	41.0	0.22	0.40	0.01		
2	41.0	41.5		0.03	< 0.01		
3	41.5	42.0	0.21	0.07	< 0.01		
4	42.0	42.5		0.36	0.01		
5	42.5	43.0	0.03	0.02	< 0.01		
6	43.0	43.5	0.09	0.05	< 0.01		
7	43.5	44.0	~~0.03~~	0.02	< 0.01		
8	44.0	44.5	0.09	0.17	< 0.01		
9	44.5	45.0	0.06	0.08	< 0.01		
20	45.0	45.5		0.04	< 0.01		
1	45.5	46.0	0.15	0.29	0.01		
2	46.0	46.5		0	< 0.01		
3	46.5	47.0	0.03	0	< 0.01		
4	47.0	47.5		0.07	< 0.01		
5	47.5	48.0	0.43	0.25	< 0.01		B low.
6	48.0	48.5		0.59	0.02		
7	48.5	49.0	0.47	0.48	0.03		3.0 m at
8	49.0	49.5		0.45	< 0.01		
9	49.5	50.0	0.75	0.99	0.01		0.546% WO_3
30	50.0	50.5		0.52	0.02		
1	50.5	51.0	0.5	0.01	< 0.01		
2	51.0	51.5		0.01	< 0.01		
3	51.5	52.0		0.01	< 0.01		
4	52.0	52.5		0.02	< 0.01		
5	52.5	53.0		0.02	< 0.01		
6	53.0	53.5		0.01	< 0.01		
7	53.5	54.0		0.02	< 0.01		
8	54.0	54.5		0.02	< 0.01		
9	54.5	55.0		0	< 0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 405

Logged By: M.J.D.

Sample No.	~~FOOTAGE~~ Metres			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
40	68.5	69.0	0.5	0.02	<0.01		
1	69.0	69.5		0.02	<0.01		
2	69.5	70.0	~~0.01~~	0.01	<0.01		
3	70.0	70.5	1.21	2.18	0.06		
4	70.5	71.0		0.24	0.01		
5	71.0	71.5		0.07	<0.01		
6	76.0	76.5	0.	0.54	0.06		
7	76.5	77.0		0.15	<0.01		END B LENS
8	89.5	90.0	0.45	0.87	0.02		2m at 0.65% WO_3
9	90.0	90.5		0.04	0.01		
50	90.5	91.0	0.64	1.50	0.04		
1	91.0	91.5		0.17	0.01		
2	91.5	92.0	~~0.46~~	0.40	0.01		
3	92.0	92.5	0.23	0.05	0.01		
4	92.5	93.0	0.20	0.07	0.01		
5	93.0	93.5		0.33	0.01		
6	93.5	94.0	0.08	0.04	0.01		
7	94.0	94.5		0.03	0.01		
8	94.5	95.0	~~0.04~~	0.04	0.01		
9	95.0	95.5	0.05	0.06	0.01		
60	95.5	96.0	~~0.06~~	0.06	0.01		
1	96.0	96.5	0.08 0.5	0.10	0.01		
2	96.5	97.0	0.09	0.06	0.01		
3	97.0	97.5		0.12	0.01		
4	97.5	98.0	0.10	0.04	0.01		
5	98.0	98.5		0.15	0.01		
6	98.5	99.0	0.22	0.21	0.01		
7	99.0	99.5		0.24	0.01		Pgh
8	99.5	100.0	0.47	0.62	0.03		9907
9	100.0	100.5		0.32	0.02		Skarn
70	100.5	101.0	0.42	0.80	0.02		
1	101.0	101.5		0.05	0.01		
2	101.5	102.0	1.05	1.05	0.04		
3	102.0	102.5		1.04	0.04		C
4	102.5	103.0	0.31	0.50	0.02		
5	103.0	103.5		0.11	0.01		
6	103.5	104.0	0.92	1.69	0.04		
7	104.0	104.25					

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 405

Logged By: M.J.D.

Sample No.	FOOTAGES Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
7	104.0	104.5		0.16	0.03		
8	104.5	105.0	6.55	0189	0.02		
9	105.0	105.5		0.21	0.02		15.0 metres at 1.01% WO_3
80	105.5	106.0	0.55	0.59	0.02		
1	106.0	106.5		0.51	0.02		
2	106.5	107.0	2.78	0.85	0.04		
3	107.0	107.5		4.70	0.13		
4	107.5	108.0	1.38	1.72	0.10		
5	108.0	108.5		1.03	0.06		
6	108.5	109.0	1.12	0.91	0.02		
7	109.0	109.5		1.33	0.04		
8	109.5	110.0	0.58	0.70	0.02		
9	110.0	110.5		0.45	0.02		
90	110.5	111.0	1.17	1.02	0.03		
1	111.0	111.5		1.33	0.04		
2	111.5	112.0	1.15	1110	0.03		
3	112.0	112.5		1.20	0.03		
4	112.5	113.0	0.70	0.65	0.01		
5	113.0	113.5		0.76	0.04		
6	113.5	114.0	1.95	0.91	0.06		
7	114.0	114.5		3.0	0.13		
8	114.5	115.0	0.05	0.02	0.19		
9	115.0	115.5		0.09	0.01		
C 0100	115.5	116.0	0.20	0.03	0.02		
1	116.0	116.5		0.36	0.03		3m at 0.75% WO_3
2	116.5	117.0	0.96	1.48	0.03		
3	117.0	117.5		0.44	0.02		
4	117.5	118.0	0.72	0.36	0.01		4.0 metres at 0.65% WO_3
5	118.0	118.5		1.06	0.03		
6	118.5	119.0	0.58	0.50	0.01		
7	119.0	119.5		0.65	0.02		
8	119.5	120.0	0.21	0.34	0.01		
9	120.0	120.5		0.08	0.01		
10	120.5	121.0	0.04	0.09	0.01		
1	128.0	128.5	~~0.21~~	0.21	0.02		
2	132.0	132.5	0.25	0.39	0.04		2m at 2.75% WO_3
3	132.5	133.0		0.10	0.01		
4	136.5	137.0	2.25	0.51	0.01		1.5 metres at 3.67% WO_3
5	137.0	137.5		4.0	0.09		
6	137.5	138.0	3.25	6.5	0.14		
	188-0	136.5					

DDH 405.
Total depth = 500'10"
Depth surveyed = 500'
Date Surveyed = 28·11·7[illegible]
Scale 1·500.

I. S. G SECTIONS.

S W E

N

old Mine Grid.

T.S.G. Axes.

N

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 405 — Date Surveyed 23 and 28/11/71

Total Depth 500'10' — Depth Surveyed To 500'

Casing Depth 140' — Surveyed By JJG + MJD

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. W
20	4 00		·9976 / ·0698	19·95	19·95	1·40				1·13	·82	·34 1·13	·25 0·82
40	4 00		·9976 / ·0698	19·95	39·90	1·40				1·13	·82	·69 2·26	·50 1·64
60	4? 00		·9976 / ·0698	19·95	59·85	1·40				1·13	·82	1·03 3·39	·75 2·46
80	4? 00		·9976 / ·0698	19·95	79·80	1·40				1·13	·82	1·38 4·52	1·00 3·28
100	4 00	4 00	·9976 / ·0698	19·95	30·4 99·75	1·40				1·13	·82	1·72 5·65	1·25 4·10
	4 00												
120	4 00	4 00	·9976 / ·0698	19·95	119·70	1·40				1·13	·82	2·07 6·78	1·50 4·92
	4 00												
140	4 00	4 00	·9976 / ·0698	19·95	139·65	1·40				1·13	·82	2·41 7·91	1·75 5·74
	4 00												
160	4 15	4 15	·9973 / ·0741	19·94	159·59	1·48				1·20	·87	2·77 9·11	2·01 6·61
	4 15												
180	4 15	4 07½	·9974 / ·0720	19·95	179·54	1·48	S 36 W	S 36 W	·8090 / ·5876	1·20	·87	3·14 10·31	2·28 7·48
	4 00												
200	4 00	4 00	·9976 / ·0698	19·95	60·3 199·49	1·40	S 38 W	S 41 W	·7547 / ·6561	1·06	·91	3·46 11·37	2·56 8·39
	4 00						S 44 W						
220	4 00	4 00	·9976 / ·0698	19·95	219·44	1·40	S 44 W	S 44½ W	·7133 / ·7009	1·00	·98	3·77 12·37	2·85 9·37
	4 00						S 45 W						
240	4 30	4 30	·9969 / ·0785	19·94	239·38	1·57	S 46 W	S 46 W	·6947 / ·7193	1·09	1·13	4·10 13·46	3·20 10·50
	4 30						S 46 W						
260	4 45	4 37½	·9967 / ·0805	19·93	259·31	1·61	S 48 W	S 48 W	·6691 / ·7431	1·08	1·20	4·43 14·54	3·57 11·70
	4 30						S 48 W						
280	4 45	4 45	·9966 / ·0820	19·93	279·24	1·66	S 52 W	S 52 W	·6157 / ·7880	1·02	1·31	4·74 15·56	3·96 13·01
	4 45						S 52 W						

Drift Direc. 180° to Azimuth Correction x

Sheet No. ... of ...

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 405 Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
300	5 100	5 100	.9962 .0872	19.92	91.18 299.16	1.74	S 58 W	S 59 W	.5446 .8387	.95	1.46	5.03 16.51	4.41 14.47
	5 00						S 56 W						
320	5 00	5 60	.9962 .0872	19.92	319.08	1.74	S 57 W	S 59 W	.5150 .8572	.90	1.49	5.30 17.41	4.86 15.96
	5 00						S 61 W						
340	5 00	5 00	.9962 .0872	19.92	339.00	1.74	S 59 W	S 58½ W	.5225 .8526	.91	1.48	5.58 18.32	5.31 17.44
	5 00						S 58 W						
360	5 100	5 100	.9962 .0872	19.92	358.92	1.74	S 63 W	S 60 W	.5000 .8660	.87	1.51	5.85 19.19	5.77 18.95
	5 00						S 57 W						
380	4 45	4 45	.9966 .0828	19.93	378.85	1.66	S 60 W	S 58 W	.5229 .8480	.87	1.41	6.11 20.06	6.21 20.36
	4 45						S 56 W						
400	4 45	4 45	.9966 .0828	19.93	121.54 398.78	1.66	S 55 W	S 51½ W	.5807 .8141	.96	1.35	6.41 21.02	6.62 21.71
	4 45						S 54 W						
420	5 60	5 60½	.9960 .0895	19.92	418.70	1.79	S 66 W	S 63½ W	.4462 .8949	.80	1.60	6.65 21.82	7.10 23.31
	5 15						S 61 W						
440	5 30	5 45	.9950 .1002	19.90	438.60	2.00	S 60 W	S 61 W	.4848 .8746	.97	1.75	6.94 22.79	10.69 25.06
	6 100						S 62 W						
460	6 15	6 15	.9941 .1089	19.88	458.48	2.18	S 64 W	S 63 W	.4540 .8910	.99	1.94	7.25 23.78	8.23 27.00
	6 15						S 62 W						
480	6 115	6 115	.9941 .1089	19.88	478.36	2.18	S 61 W	S 61½ W	.4772 .8788	1.04	1.91	7.56 24.82	8.81 28.91
	6 15						S 62 W						
500	6 30	6 30	.9936 .1132	19.87	151.56 498.23	2.26	S 57 W	S 57 W	.5446 .8387	1.23	1.89	7.94 26.05	9.39 30.80
	6 30						S 57 W						

IAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 405 — Date Surveyed 28/11/71

Total Depth 305 — Depth Surveyed To 300'

Casing Depth 140' — Surveyed By J.J.C-

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	open			Time 22	23	240	4°30	S46W
	1	open			23	24	220	4°	S45W
	2 3	moved			24	25	200	4°	S36W
	4	20'	4°		25	26	180	4°	S36W
	5	40'	4		26	27	160	x moved? 4°15	
	6	60			27	28	140	4°	
	7	moved			28	29	120	4°	
Watch. *	7	8	100	4	29	30	100	4°	
	8	9	120	4	30	31	100	4°	
	9	10	140	4	31				
	10	11	160	4°15	32				
	11	12	180	4°15	33				
	12	13	200	4°	S38°W	34			
	13	14	220	4°	S44W	35			
	14	15	220	4°	S44W	21			
	15	16	240	4°30	S46W	37			
	16	17	260	4°45	S48°W	38	94	open	
	17	18	280	4°45'	S52W				
	18	19	300	5°	S58W				
	19	20	300	5°	S58W				
	20	21	280	4°45'	S52W				
	21	22	260	4°30	S48W				

REMARKS:- Dropped watch - appeared to lose 1 minute

Sheet No. ... of ...

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 405 Date Surveyed 23/11/71

Total Depth 305 (incomplete) Depth Surveyed To 300'

Casing Depth 140 Surveyed By J.J.G

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
40	4°												
60	4°												
80	4°												
100	4°												
	4°												
120	4°												
	4°												
140	4°												
	4°												
160	4	15											
	4												
180	4	15											
	4												
200	4						S38W	S37W					
	4						S36W						
220	4						S44W	S45W					
	4						S45W						
240	4	30					S46W	S46W					
	4	30					S46W						
260	4	45					S48W	S48W					
	4°	30					S48W						
280	4	45					S52W	S52W					
	4	145					S52W						
300	6						S58W	S58W					
	5												

Assume constant direction of drift between 200' & 300'

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 405 Date Surveyed 30 11 71

Total Depth 501 Depth Surveyed To 500

Casing Depth _____ Surveyed By MJJ

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
16		300	5	S 58° W	38	300	5	61		
17		320	5	58	39					
18		320	5	59	40					
19		340	5	59						
20		360	5	63						
21		380	4 3/4	60						
22		400	4 3/4	55						
23		420	5	66						
24		440	5 1/2	60						
25		460	6 1/4	64						
26		480	6 1/4	61						
27		500	6 1/2	57						
28		500	6 1/2	57						
29		480	6 1/4	62						
30		460	6 1/4	62						
31		440	6	62						
32		420	5 1/4	61						
33		400	4 3/4	54						
34		380	4 3/4	56						
35		360	5	57						
36		340	5	58						
37		320	5	61						

REMARKS:- _____

DIAMOND DRILL HOLE NO. 404

LOCATION:	NO. 2 OREBODY
CO-ORDINATES:	563 961.32N 220 200.14E
R.L.:	+ 13.67m
DATE COMMENCED:	10/12/1971
DATE COMPLETED:	15/1/1972
FINAL DEPTH:	274.4m
DATE SURVEYED:	15/1/1972
LOGGED BY:	M.J. DANIELSON

INCLINATION Vertical

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS	
		DIAMOND DRLL HOLE 404				
C 0117	123.5	124.0	0.5	0.5		0.01
18	126.0	126.5				0.02
C 0119	148.5	149.0	0.5	0.5	0.01	0.01
20	149.0	149.5			0.01	0.01
1	149.5	150.0			0.02	0.01
2	150.0	150.5			0.02	0.01
3	150.5	151.0			0.25	0.01
4	151.0	151.5			0.58	0.02
5	151.5	152.0			0.35	0.02
6	152.0	152.5			0102	0.01
7	152.5	153.0			0.02	0.01
8	153.0	153.5			0.07	0.01

) DRILL LOG

DRILL HOLE No. 404

UNIT	GEOLOGICAL DESCRIPTION	FRACTURI
	Predrilled to 25.5m.	
UPPER VOLCANICS 25.5 - 122.45	Fine grained reyish green in colour. Spotted with porphyroblasts of mica up to .5 mm dia. - more usually 2 mm dia. The fracture for this rock type is extraordinarily low in this hole although this may be a function of the core size.	
	25.5m - 34.95 2½" dia. HQ 34.95m- 152.30m 1-7/8" dia, NQ	
	Volcanics continue to show low to intermediate fracture with majority of fractures at a high angle i.e. 45° to the core axis. (see fracture log).	
	Carbonate veins intersect volcanics as follows: 32.25m 6mm Vein at 25° to core axis 33.35m 6mm " " 25° to " " 38.80m 14mm " " 25° to " " 39.0 m 6mm " " 70° to " " 41.66 4mm " " 65° to " " 43.10 5mm " " 10° to " " 45.08 5mm " " 80° to " " 46.80 5mm " " 15° to " " 50.75 5mm " " 5° to " "	
	Volcanics are heavily brecciated from 55.0 to 59.5m Fine grained pink aplite inrusions at 67.6 to 68.08m and 68.25 to 68.35	
	Volcanics exhibit ver pronounced "spotting" at 69.0 - 69.5m and 71.0 - 71.5m with spots up to 6mm dia.	
	Breccia 5 cms breccia at 83.0m	

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS		
9	153.5	154.0			0.01	0.01	
30	154.0	154.5			0.01	0.01	
1	154.5	155.0			0121	0.01	
2	155.0	155.5			0.10	0.01	
3	155.5	156.0			0.01	0.01	
4	156.0	156.5			0.02	0.01	
5	156.5	157.0			0.07	0.01	
6	157.0	157.5			0102	0.01	
7	157.5	158.0			0.03	0.01	
8	158.0	158.5			0.02	0.01	
9	158.5	159.0			0.01	0.01	
40	159.0	159.5			0.01	0.01	
1	159.5	160.0			0.01	0.01	
2	160.0	160.5			0.01	0.01	
3	160.5	161.0			0.05	0.01	
4	161.0	161.5					
4	183.0	183.5	0.5	0.5	0.02	0.01	
5	183.5	184.0			0.02	0.01	
6	184.0	184.5			0.01	0.01	
7	184.5	185.0			0.35	0.01	
8	185.0	185.5			0.05	0.01	
9	185.5	186.0			0.09	0.01	
50	186.0	186.5			0.01	0.01	
1	186.5	187.0			0.11	0.01	
2	187.0	187.5			0.02	0.01	
3	187.5	188.0			0.07	0.01	
4	188.0	188.5			0.04	0.01	
5	188.5	189.0			0.02	0.01	
6	189.0	190.5			0.05	0.01	
7	189.5	190.0			0.66	0.01	
8	190.0	190.5			0.12	0.01	
9	190.5	191.0			0.77	0.02	

ND DRILL LOG

DRILL HOLE No. 404

UNIT	GEOLOGICAL DESCRIPTION	FRACTURIN
	Very strong "spotting" 77.0 - 77.5m	
	104.75m abundant pyrite on joint planes. 112.60m minor chalcopyrite in a thin vein 1 mm wide and also some disseminated spots minor Mo. 113.5 - 115.5m clay cemented breccia - not a fault. 116.0 - 117.0m abundant iron oxide staining on joint planes. Volcanics continue very spotted to the base with perhaps an increase in sulphide content. 121.70 - 122.45m frequent pyrite in thin 1 mm veins and on joint surfaces - also appears to be some minor Mo.	
SHEARED MICACEOUS VOLCANICS	This is a sheared, highly micaceous rock containing abundant unaltered pieces of spotted volcanics up to 25 cm dia. The rock often appears almost as a breccia with the inter stitial mica as the groundmass although orientated or elongation of the groundmass mica does not appear to be the case. 135.6 - 136.6 sheared chlorite rich rock. It is a greenish black rock consisting of mostly chlorite, minor free Mo and some spots of mica . Highly sheared.	
B LENS HANGINGWALL 136.6 - 148.0	Thinly banded purplish brown biotite hornfels Banding at 60° to core axis. Some minor pyroxene hornfels with 5 cms aplite at 141.94m. The hornfelses show evidence of mobility with much intermixing between Bh and Ph. 144.20 banding 50° to core axis.	

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SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS	
60	191.0	191.5			0.75	0.02
1	191.5	192.0			1.68	0.05
2	192.0	192.5			1.66	0.06
3	192.5	193.0			1.10	0.05
4	193.0	193.5			1.21	0.04
5	193.5	194.0			0.85	0.04
6	194.0	194.5			0.80	0.04
7	194.5	195.0			0.74	0.03
8	195.0	195.5			0.68	0.03
9	195.5	196.0			1.27	0.05
70	196.0	196.5			0.96	0.05
1	196.5	197.0			0.73	0.03
2	197.0	197.5			1.01	0.05
3	197.5	198.0			0.45	0.03
4	198.0	198.5			0.72	0.02
5	198.5	199.0			0.71	0.05
6	199.0	199.5			0198	0.04
7	199.5	200.0			0.57	0.03
8	200.0	200.5			0.53	0.03
9	200.5	201.0			0130	0.02
80	201.0	201.5			0.87	0.04
1	201.5	102.0			0.52	0.03
2	202.0	202.5			0.45	0.02
3	202.5	203.0			0.76	0.04
4	203.0	203.5			0.68	0.03
5	203.5	204.0			0.64	0.03
6	204.0	204.5			0.68	0.05
7	204.5	205.0			0.36	0.02
8	205.0	205.5			0.88	0.03
9	205.5	206.0			0.56	0.03
90	206.0	206.5			0.09	0.01
1	206.5	207.0			0.85	0.03
2	207.0	207.5			0.17	0.01
3	207.5	208.0			0.01	0.01
4	208.0	208.5			0.01	0.01
5	208.5	209.0			0.03	0.01
6	209.0	209.5			0.02	0.01
7	212.0	212.5			0.03	0.01
8	212.5	213.0			0.06	0.01
9	213.0	213.5			0.02	0.01
C 0200	213.5	214.0			0.02	0.01
1	214.0	214.5			0.01	0.01

ND DRILL LOG

DRILL HOLE No.

UNIT	GEOLOGICAL DESCRIPTION	FRACTUR
PYROXENE HORNFELS 148.0 - 149.9	Pale green massive hornfels with no apparent bedding. 149.70 - 15 cms of aplite.	
B LENS HOST ROCKS 149.9 - 152.60	149.9 - 150.8 Ph/Gh Intermixed pyroxene hornfels with pale pink grossular garnets. Minor calcite hornfels with weak scheelite mineralisation. 150.8 - 151.2 Skarn. Moderate scheelite see assays. 151.2 - 152.6 Ph/Gh as above.	
MARBLE 152.60 161.0	Pale grey, low fracture with moderate carbonate veining. Irregular joint directions but mostly at a high angle to the core axis. Minor inclusions of Ph/Gh at 154.7 0 155.5m and 160.8 - 161.0m with weak scheelite mineralisation.	
BIOTITE HORNFELS 161.0 - 182.95	Purplish brown biotite hornfels with a flaggy white appearance for the tope 30 cms. (cf DDH 403). Bedding is at 60° nto core axis with majority of joints at 60° - 65°. Fracture is generally intermediate. Colour tends more to a purplish grey indicating increasing actinolite. 174.30 minor blobs of chalcopyrite. 172.0 - 176.0m heavily brecciated with core held together by chlorite on joint planes. Little structural strength. Hornfels becomes more biotite rich in bottom 3 metres.	
PYROXENE GARNET HORNFELS 182.95 - 190.5	Tope ½m is very biotite rich but also containing some Ph and Bah and calcite pods 3.0 - 5.0 cms dia. The pgh becomes more pyroxene rich below 183.5m. Core is highly fractured and shows evidence of sediment mobility. Minor disseminated scheelite. [illegible].m	

OND DRILL LOG

DRILL HOLE No. 404

UNIT	GEOLOGICAL DESCRIPTION	FRACTUR
	185.9 - 186.3m Very grey in colour - actinolite rich. Minor chalcopyrite 186.6m and 189.5m - 189.7mm. Carbonate ovoids not well developed from 186.3 - 190.5m and the rock is mainly a Bh/Gh with minor calcite often in veins.	
GARNET HORNFELS 190.5 - 207.0	Very competent, low fracture skarn. Abundant very fine grained disseminated scheelite and xxxx also some minro chalceopyrite at 193.55m.	
PYROXENE HORNFELS 207.0 - 207.5	Pale green pyroxene hornfels - very minor mineralisation.	
MARBLE 207.5 - 209.85	Grey competent marble with little mineralisation Bedding 50° at to core axis. Ph inclusion at 208.7 - 209.0m	
BIOTITE HORNFELS 209.85 - 212.09	Dark purple brown hornfels. Bedding and fracture direction at 50° - 60° to core axis. No scheelite mineralisation.	
BANDED FOOTWALL BEDS 212.09 - 237.80	Top 2 metres is mainly marble with minor with minor Gh, Ph and Bh bands up to 2 cm wide. No mineralisation. Variable replacement in the Ch takes place below 215.0 m and the degree of replacement is evident by the assays. The scheelite mineralisation is of a much coarser grain size than that in the skarn. Bedding in the footwall beds vary from 40° - 65° to the core axis. Fracturing is mostly along the bedding planes. The core is generally more competent where mineralised with occasional high angle irregular fractures across core.	

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SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS		
2	214.5	215.0			0.12	0.01	
3	215.0	215.5			0.72	0.02	
4	215.5	216.0			0.20	0.01	
5	216.0	216.5			0.27	0.01	
6	216.5	217.0			0.44	0.02	
7	217.0	217.5			0.37	0.02	
8	217.5	218.0			0.38	0.02	
C 0209	219.0	219.5			0.15	-	
10	219.5	220.0			0.47	0.01	
1	220.0	220.5			0.04	0.01	
2	220.5	221.0			0.05	0.01	
3	221.0	221.5			0.02	0.01	
4	221.5	222.0			0.60	0.02	
5	222.0	222.5			0.76	0.03	
6	222.5	223.0			0.79	0.03	
7	223.0	223.5			1.01	0.03	
8	223.5	224.0			1.46	0.04	
9	224.0	224.5			0.23	0.01	
20	224.5	225.0			0.43	0.01	
1	225.0	225.5			0.44	0.02	
2	225.5	226.0			0.28	0.01	
3	226.0	226.5			0.93	0.03	
4	226.5	227.0			0.34	0.02	
5	227.0	227.5			0.28	0.01	
6	227.5	228.0			0.65	0.03	
7	228.0	228.5			0.16	0.01	
8	228.5	229.0			0.14	0.01	
9	229.0	229.5			0.52	0.02	
30	229.5	230.0			0.53	0.02	
1	230.0	230.5			0.23	0.02	
2	230.5	231.0			0.48	0.02	
3	231.0	231.5			0.76	0.03	
4	231.5	232.0			0.36	0.02	
5	232.0	232.5			0.62	0.03	
6	232.5	233.0			0.48	0.02	
7	233.0	233.5			0.48	0.02	
8	233.5	234.0			0.19	0.01	
9	234.0	234.5			0.29	0.02	
40	234.5	235.0			0.73	0.03	
1	235.0	235.5			0.08	0.01	
2	235.0	236.0			0.05	0.01	

DRILL LOG

DRILL HOLE No. 404

UNIT	GEOLOGICAL DESCRIPTION	FRACT
BIOTITE/PYROXENE HORNFELS 237.8 - 249.0	Purplish brown and greyish green striped rock. Thinly bedded, usually beds 1cm wide although occasionally up to 3 cms. Bedding at 45° to core axis. No scheelite mineralisation Fractures mainly along bedding planes. 242.0 bedding 50° to core axis. Aplite 245.3 to 245.65m	
BANDED FOOTWALL BEDS 249.0 - 266.4	This rock does not contain as much Ch as the footwall beds described before. There is very minor replacement in the Ch but doubtful that any would carry ore grade. Banding is generally wider than in the Bh/Ph and beds are usually around 2 cms. wide. 262.07 ½cm wide coarse scheelite vein.	
OLDER VOLCANICS ~~266.4 - 269.94~~	Grey in colour, low fracture, spots of mica up to 2mm dia. Minor pyrite and chalcopyrite blobs.	
BANDED FOOTWALL BEDS 269.94 - 273.56	~~As above~~	
PYROXENE HORNFELS 273.56 - 274.4	Very pyroxene rich hornfels. No bedding visible. It has a spotted appearance which may be due to a high sulphide content - mainly pyrrhotite and chalcopyrite.	
	274.4 metres END OF HOLE	

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 404 (Dolphin)

Logged By: -

	Sample No.	FOOTAGES			ASSAYS		L X A	REMARKS
		From	To	Length	WO_3	Mo		
	B 1761	229.0	229.1	0.10	0.46	0.02		
	2	229.1	229.2	"	1.02	0.04		
	3	229.2	229.3	"	0.58	0.02		
	4	229.3	229.4	"	0.25	0.02		
	5	229.4	229.5	"	0.06	0.01		
	6	229.5	229.6	"	1.25	0.04		
	7	229.6	229.7	"	0.35	0.02		
	8	229.7	229.8	"	0.25	0.02		
	9	229.8	229.9	"	0.32	0.02		
	70	229.9	230.0	"	0.29	0.01		
	1	230.0	230.1	"	0.21	0.01		
	2	230.1	230.2	"	0.07	0.01		
	3	230.2	230.3	"	0.16	0.02		
	4	230.3	230.4	"	0.60	0.02		
	5	230.4	230.5	"	1.02	0.03		Rock type is
	6	230.5	230.6	"	0.39	0.01		Banded Footwall
	7	230.6	230.7	"	0.07	0.01		Beds.
	8	230.7	230.8	"	0.32	0.02		
	9	230.8	230.9	"	0.13	0.01		
	80	230.9	231.0	"	0.54	< 0.01		
	1	231.0	231.1	"	0.69	0.02		
	2	231.1	231.2	"	0.13	0.02		
	3	231.2	231.3	"	0.69	0.03		
	4	231.3	231.4	"	2.70	0.07		
	5	231.4	231.5	"	0.33	0.02		
	6	231.5	231.6	"	0.04	0.01		
	7	231.6	231.7	"	0.47	0.01		
	8	231.7	231.8	"	0.43	0.02		
	9	231.8	231.9	"	0.72	0.03		
	B 1790	231.9	232.0	"	1.69	0.06		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 404

Logged By: MJD

	Sample No.	~~FOOTAGES~~ metres			ASSAYS		L X A	REMARKS
		From	To	Length	WO_3	Mo		
	C 0117	123.5	124.0	0.5		0.01		
	0118	126.0	126.5			0.02		
	C 0119	148.5	149.0		<0.01	<0.01		
	20	149.0	149.5	.01	0.01	<0.01		
	1	149.5	150.0		0.02	<0.01		
	2	150.0	150.5	.14	0.02	0.01		
	3	150.5	151.0		0.25	0.01		
	4	151.0	151.5	.46	0.58	0.02	0.02	1.5 metres
	5	151.5	152.0		0.35	0.02		at 0.39% WO_3
	6	152.0	152.5	.02	0.02	<0.01		
	7	152.5	153.0		0.02	<0.01		
	8	153.0	153.5	.04	0.07	<0.01		
	9	153.5	154.0		<0.01	<0.01		B lens
	30	154.0	154.5	.11	<0.01	<0.01		
	1	154.5	155.0		0.21	0.01		
	2	155.0	155.5	.05	0.10	<0.01		
	3	155.5	156.0		<0.01	<0.01		
	4	156.0	156.5	.04	0.02	<0.01		
	5	156.5	157.0		0.07	<0.01		
	6	157.0	157.5	.02	0.02	<0.01		
	7	157.5	158.0		0.03	<0.01		
	8	158.0	158.5	.02	0.02	<0.01		
	9	158.5	159.0		0.01	<0.01		
	40	159.0	159.5	.01	<0.01	<0.01		
	1	159.5	160.0		<0.01	0.01		
	2	160.0	160.5	.03	<0.01	<0.01		
	3	160.5	161.0		0.05	<0.01		
	C 0144	183.0	183.5	.02	0.02	<0.01		
	5	183.5	184.0		0.02	<0.01		
0.01	6	184.0	184.5	.18	0.01	<0.01		
	7	184.5	185.0		0.35	0.01		
0.20	8	185.0	185.5	.07	0.05	<0.01		
	9	185.5	186.0		0.09	<0.01		Pgh
0.05	50	186.0	186.5	.06	0.01	<0.01		
	1	186.5	187.0		0.11	<0.01		
0.06	2	187.0	187.5	.04	0.02	<0.01		
	3	187.5	188.0		0.07	<0.01		
0.06	4	188.0	188.5		0.04	<0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 404

Logged By: _____

Assays in black ink are check assays of the same sample.

Sample No.	FOOTAGES Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
C 0155	188.5	189.0	0.5	0.02	< 0.01		
6	189.0	189.5		0.05	0.01		Pgh
7	189.5	190.0		0.66	0.01		
8	190.0	190.5		0.12	< 0.01		
9	190.5	191.0		0.77	0.02		Skarn
60	191.0	191.5		0.75	0.02		
1	191.5	192.0		1.68	0.05		
2	192.0	192.5		1.66	0.06		
3	192.5	193.0		1.10	0.05		
4	193.0	193.5		1.21	0.04		C lens
5	193.5	194.0		0.85	0.04		
6	194.0	194.5		0.80	0.04		
7	194.5	195.0		0.74	0.03		
8	195.0	195.5		0.68	0.03		16.5 metres
9	195.5	196.0		1.27	0.05		
70	196.0	196.5		0.96	0.05		at
1	196.5	197.0		0.73	0.03		
2	197.0	197.5		1.01	0.05		0.78% WO_3
3	197.5	198.0		0.45	0.03		
4	198.0	198.5		0.72	0.02		
5	198.5	199.0		0.71	0.05		
6	199.0	199.5		0.98	0.04		
7	199.5	200.0		0.57	0.03		
8	200.0	200.5		0.53	0.03		17m at
9	200.5	201.0		0.30	0.02		0.6% WO_3
80	201.0	201.5		0.87	0.04		
1	201.5	202.0		0.52	0.03		GB.
2	202.0	202.5		0.45	0.02		
3	202.5	203.0		0.76	0.04		
4	203.0	203.5		0.68	0.03		
5	203.5	204.0		0.64	0.03		
6	204.0	204.5		0.68	0.05		
7	204.5	205.0		0.36	0.02		
8	205.0	205.5		0.88	0.03		
9	205.5	206.0		0.56	0.03		
90	206.0	206.5		0.09	0.01		
1	206.5	207.0		0.85	0.03		
2	207.0	207.5		0.17	0.01		
3	207.5	208.0		0.01	< 0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 404

Logged By: MJD

Sample No.	FOOTAGES From	To	Length	Notes	ASSAYS WO_3	Mo	L X A	REMARKS
C 0194	208.0	208.5	0.5	.07	0.01	<0.01		
5	208.5	109.0			0.03	<0.01		
6	209.0	209.5			0.02	<0.01		
7	212.0	212.5		.04	0.03	0.01		
8	212.5	213.0			0.06	0.01		
9	213.0	213.5		.02	0.02	0.01		
C 0200	213.5	214.0			0.03	0.01		
1	214.0	214.5		.06	0.01	0.01		
2	214.5	215.0			0.12	0.01		
3	215.0	215.5			10.72	0.02		
4	215.5	216.0	0.96		0.20	0.01		
5	216.0	216.5	0.36		10.27	0.01		3.0 metres
6	216.5	217.0			10.44	0.02		at
7	217.0	217.5	0.37		10.37	0.02		0.39% WO_3
8	217.5	218.0			10.38	0.02		
			1.79					
9	218.0	219.5		.13	0.15			
10	219.5	220.0			0.47	0.01		
1	220.0	220.5		.04	0.04	<0.01		
2	220.5	221.0			0.05	<0.01		
3	221.0	221.5		.13	0.02	<0.01		
4	221.5	222.0	0.68		0.60	0.02		
5	222.0	222.5		.77	0.76	0.03		
6	222.5	223.0			0.79	0.03		
7	223.0	223.5	0.90		1.01	0.03		14m +
8	223.5	224.0		1.23	1.46	0.04		
9	224.0	224.5	0.84		0.28	0.01		0.51% WO_3
20	224.5	225.0		.33	0.43	0.01		
1	225.0	225.5	0.44	0.42	0.44	0.02		C.B.
2	225.5	226.0		.36	0.28	0.01		
3	226.0	226.5	0.60		0.93	0.03		
4	226.5	227.0		.64	0.34	0.02		
5	227.0	227.5	0.31	0.28	0.28	<0.01		
6	227.5	228.0		.46	0.65	0.03		13.5 metres
7	228.0	228.5	0.41		0.16	<0.01		at
8	228.5	229.0		.17	0.14	<0.01		
9	229.0	229.5	0.33		0.52	0.02		0.52% WO_3
30	229.5	230.0		.52	0.53	0.02		
			0.37					

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 404

Logged By: MJD

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
C 0231	230.0	230.5	0.5	0.23	0.02		
2	230.5	231.0		0.48	0.02		
3	231.0	231.5		0.76	0.03		
4	231.5	232.0		0.36	0.02		
5	232.0	232.5		0.62	0.03		
6	232.5	233.0		0.48	0.02		
7	233.0	233.5		0.48	0.02		
8	233.5	234.0		0.19	0.01		
9	234.0	234.5		0.29	0.02		
40	234.5	235.0		0.73	0.03		
1	235.0	235.5		0.08	<0.01		
2	235.5	236.0		0.05	<0.01		
3	255.25	256.75		0.37	0.01		
4	257.60	258.10		0.14	<0.01		
5	273.50	274.26				Cu. 0.023	

Sheet No. ... of ...

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK - MULTISHOT CAMERA

D.D.H. No. 404 Date Surveyed 4.1.72

Total Depth 499' Depth Surveyed To 370

Casing Depth 115' Surveyed By P. McG. MJD.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords N/S	Sum of Co-Ords E
10	-												
	-												
30	2 00	2 00	.9994 .0349	29.98	29.98	1.05		S 6 E	.4695 .8829	0.49	0.93	0.49	0.93
	2 00												
50	2 00	2 07	.9993 .0371	19.98	49.96	0.74		"		0.35	0.65	0.84 (0.35)	1.58 (0.65)
	2 15												
70	2 00	1 52	.9994 .0327	19.99	69.95	0.65		"		0.31	0.57	1.15	2.15
	1 45												
90	2 00	1 45	.9995 .0305	19.99	89.94	0.61		"		0.29	0.54	1.44	2.69
	1 30												
110	2 00	2 00	.9994 .0349	19.99	109.93 (335)	0.72		"		0.34	0.64	1.78 (0.54)	3.33 (1.02)
	?												
130	1 45	1 37	.9996 .0285	19.99	129.92	0.57	S 51 E	S 62 E	.4695 .8829	0.27	0.50	2.05	3.83
	1 30						S 73 E						
150	1 45	1 45	.9995 .0305	19.99	149.91	0.61	S 60 E	S 60 E	0.50 0.86	0.30	0.53	2.36	4.31
	?												
170	1 45	1 37	.9996 .0285	19.99	169.90	0.57	S 86 E	90° E	0.0 1.00	0.00	0.57	2.36 (0.72)	4.93 (1.5)
	1 30						N 86 E						
190	-	1 37	.9996 .0285	19.99	189.89	0.57		S 79½ E	.1922 .9813	0.11	0.63	2.47	5.56
	-												
210	1 45	1 37	.9994 .0285	19.99	209.88	0.57	S 73 E	S 80 E	.3584 .9336	0.20	0.53	2.67	6.09
	1 30						S 65 E						
230	1 45	1 30	.9997 .0262	19.99	229.87 (20.06)	0.52	S 73 E	S 73 E	.2924 .9562	0.17	0.50	2.84 (0.87)	6.59 (2.01)
	1 15						S 73 E						
250	1 30	1 22	.9997 .0230	19.99	249.86	0.46	N 80 E	S 68½ E	.3665 .9304	0.17	0.43	3.01	7.02
	1 15						S 48 E						
270	1 30	1 15	.9998 .0218	20.00	269.86	0.44	S 46 E	S 44 E	.7133 .6997	0.32	0.31	3.33	7.33
	1 00						S 42 E						
	?												

Sheet No. ... of ...

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E
290	1 30	1 15	.9998 .0218	20.00	289.86	0.44	S 68 E	S 48 E	.6691 .7437	0.29	0.33	1.18 3.62	2.33 7.16
	1 00						S 28 E						
310	1 15	1 07	.9998 .0197	20.00	309.86	0.39	S 85 E	S 67½ E	.3827 .9239	0.15	0.36	3.77	8.02
	1 00						S 50 E						
330	1 00	1 07	.9998 .0197	20.00	329.86	0.39	S 15 E	S 36 E	.8090 .5878	0.32	0.23	4.09	8.25
	1 15						S 29 E						
350	1 15	1 15	.9998 .0218	20.00	349.86	0.44	S 63 E	S 63 E	.4540 .8910	0.20	0.40	1.31 4.29	2.64 8.65
	?												
370	1 00	1 07	.9998 .0197	20.00	112.9 360.86	0.39	S 34 E	S 34 E	.829 .559	0.32	0.22	1.22 4.61	2.7 8.87
	1 15												

Sheet No. ... of ...

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords N/S	Sum of Co-Ords E
290										0.29	0.33	3.62	1.66
310										0.15	0.36	3.77	8.02
330										0.32	0.23	4.09	8.25
[illegible]	1	00								0.20	0.40	4.29	8.65
370	1	00			369.86		S 34 E	S 34 E		0.32	0.22	4.61	9.87
390	1	00	1	00	.9998 / .0175	19.99	389.85 (389.8)	0.35	↑	S 20 E	9397 / 3420	0.33	0.12	1.50 / 4.94	2.74 / 8.99
410	1	15	1	15	.9998 / .0218	19.99	409.84	0.44	Interpolated Bearings	S		0.44	—	5.38	8.99
430	2		2	00	.9994 / .0349	19.99	429.83	0.70		S 10 W	9848 / 1736	0.69	0.12	6.07	8.87
450	2		2	00	.9994 / .0349	19.99	449.82	0.70		S 20 W	9397 / 3420	0.66	0.24	6.73	8.63
490	2	15	2	15	.9992 / .0393	19.98	469.80	0.79		S 30 W	8660 / 5000	0.68	0.39	7.41	8.24
490	2	15	2	15	.9992 / .0393	19.98	469.78 (469.3)	0.79	↓	S 40 W	7660 / 6428	0.61	0.51	2.44 / 8.02	2.36 / 9.73
510	2	15	2	22	.9991 / .0416	19.98	509.76	0.83	S 53 W	S 53 W	6018 / 7986	0.50	0.66	8.52	1.09
	2	30													
530	2	15	2	15	.9992 / .0393	19.98	529.74	0.79	S 52 W	52	6157 / 7880	0.49	0.62	9.01	6.45
	2	15													
550	3	15	3	22	.9992 / .0590	19.96	549.70	1.19	S 58 W	58	5299 / 8480	0.62	1.00	9.63	5.45
	3	30							58						

Sheet No. ... of ...

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords N/S	Sum of Co-Ords E
590	4 30	4 22	.9971 / .0760	19.94	589.64	1.52	S 55 W	55	5736 / 8192	0.87	1.24	10.50	4.21
	4 15						55						
590	5 00	5 00	.9962 / .0872	19.92	179.7 589.56	1.74	S 54 W	54	5878 / 8090	1.02	1.41	3.51 11.52	0.85 2.80
	5 00						54						
610	5 30	5 30	.9954 / .0958	19.91	609.47	1.92	S 54 W	53½	5948 / 8039	1.14	1.54	12.66	1.26
	5 30						S 53 W						W
630	5 30	5 30	9954 / 0958	19.91	629.38	1.92	S 55 W	55	5736 / 8192	1.10	1.57	13.76	0.31
	5 30						55						
650	5 30	5 30	9954 / 0958	19.91	649.29	1.92	S 53 W	53½	5948 / 8039	1.14	1.54	14.90	1.85
	5 30						54						
670	5 30	5 39	9952 / 0990	19.90	669.19	1.98	S 53 W	53½	5948 / 8039	1.18	1.59	16.08	3.44
	5 45						54						
690	6 00	6 00	9945 / 1045	19.89	210.0 689.08	2.09	S 54 W	54	5878 / 8090	1.23	1.69	5.28 17.31	1.56 5.13
	6 00						54						
910	6 30	6 00	9945 / 1045	19.89	708.97	2.09	S 57 W	57	5446 / 8387	1.14	1.75	18.45	6.88
	6 30						57						
930	6 30	6 30	9936 / 1132	19.87	728.84	2.26	S 57 W	57	5446 / 8387	1.23	1.89	19.68	8.79
	6 30						57						
950	6 30	6 30	9936 / 1132	19.87	748.71	2.26	S 57 W	57½	5373 / 8434	1.21	1.91	20.89	10.68
	6 30						58						
970	6 30	6 30	9936 / 1132	19.87	768.58	2.26	S 58 W	58	5299 / 8480	1.19	1.92	22.08	12.60
	6 30						58						
990	6 30	6 30	9936 / 1132	19.87	214.3 788.45	2.26	S 59 W	58½	5225 / 8526	1.18	1.93	7.10 23.26	4.43 14.53
	6 30						S 58 W						
810	6 45	6 45	9931 / 1175	19.86	808.31	2.35	S 61 W	61	4848 / 8742	1.14	2.05	24.40	16.58
	6 45						61						
830	7 00	6 52	9927 / 1195	19.85	828.16	2.39	S 62 W	62½	4617 / 8870	1.10	2.12	25.50	18.70
	6 45						63						

Sheet No. ... of ...

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

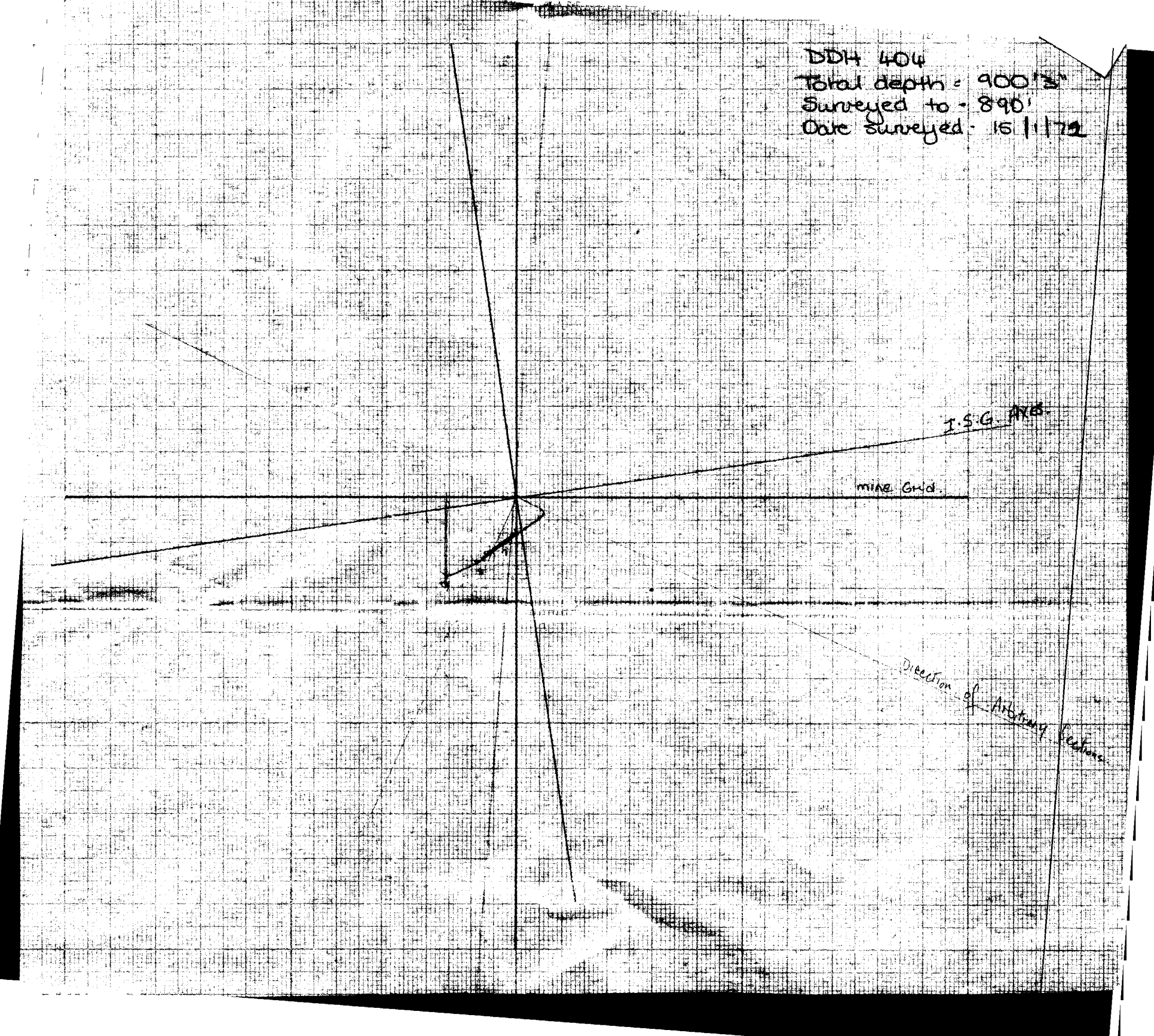
Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E
850	7 00	7 00	9923 / 1219	19.85	848.01	2.44	S 65 W	64½	4305 / 9026	1.05	2.20	26.55	20.90
	7 00						64						
870	7 15	7 15	9920 / 1262	19.84	869.85	2.52	S 65 W	65	4226 / 9063	1.06	2.28	27.61	23.18
	7 15						65						
890	7 45	7 45	9909 / 1349	19.82	887.67	2.70	S 67 W	67	.3907 / .9205	1.05	2.48	28.66	25.66
	7 45						67						

N S W E

DDH 404
Depth Surveyed to: 890'
Date surveyed 15/1/72
Total depth 900'S
Scale ?

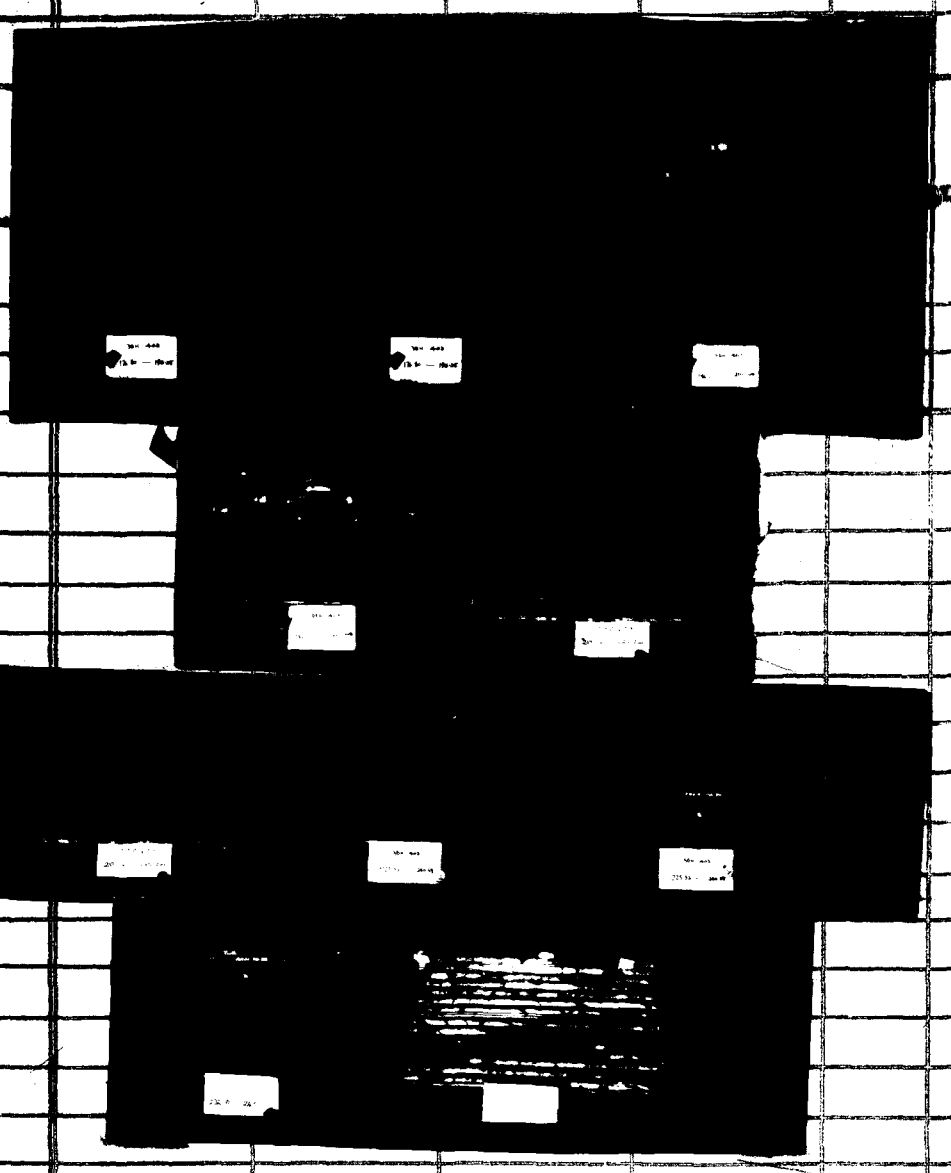
- 2.00


DDH 404
Total depth = 900'3"
Surveyed to - 890'
Date Surveyed - 15/11/72
I.S.G. Axes.
mine Grid.
Direction of Arbitrary Sections.

GEOPEKO LIMITED, KING ISLAND.

DIAMOND

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS
		DIAMOND DRILL HOLE 403			
	0	4.5			
	4.5	10.7			
	10.7	12.0			
	12.0	16.8			
	6.8	17.7			
	17.7	18.3			



DRILL LOG

RL 4243

SHEET No. 1 of 8

DRILL HOLE No. 403

UNIT	GEOLOGICAL DESCRIPTION	FRA
	Boulders and fill.	
	Sand	
	Sandstone (?) Rock Band	
	Sand	
	Sand and partially weathered rock	
	Fresh rock	
VOLCANICS 18.30 — 33.5 m	Fine to medium grained grey green rock, usually a fragmental, agglomeratic texture. Mineralogy is predominantly tremolite/actinolite. Fracture is generally very high with widely varying joint plates - usual joint in filling is clay and chlorite with local developements of calcite.	
	18.30-29.84m NQ Casing Core - 2.5" dia.	
	18.30-20.3 m heavy fracturing with minor carbonate veining but mainly chlorite onjoint plates.	15° 40°
	18.57-19.50m lost core.	
	20.30-24.50m intermediate fracture with carbonate on joint plates.	20°
	22.50-23.50m "spotted" appearance with porphyroblasts of mica up to 3 mm dia.	
	24.0-24.15m extensive clinohumite.	
	24.5-25.5m heavy fracture, brecciated with rock fragments held together by a clay/chlorite matrix.	
	25.4-26.0, abundant mica in matrix between breccia fragments.	
	28.25-29.5m abundant carbonate veining often parallel to core axis	0° 10°
	29.0-32.5. good "spotted" developement as above.	
	29.84-33.5m 1-13/16" dia. NQ core.	

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
APLITE 33.5-33.8	White, grey with abundant quartz with occasional fragments of volcanics intermixed Minor molbdenum disseminated.	
VOLCANICS 33.8-97.2	33.8-39.0m low to intermediate fracture, Minor carbonate veining.	25°40°50°
	39.0-41.0m intermediate fracture with moderate carbonate veining. Joints have carbonate filling.	0° 40°
	41.0-45.0m heavy fracture, brecciated with volcanic fragments held together by a clay/ chlorite matrix.	irregular
	45.0-47.5m intermediate fracture, chlorite filled joints. Volcanics continue spotted with good mica porphyroblasts developed at 45.60m.	40° 50°
	47.50-49.9m breccia Fault?	
	49.9-52.5m intermediate to heavy fracture; mainly good cofe although some heave fracture zones up to 0.1 m spaced within. Carbonate veining rare within joints predominantly chlorite filled.	35° 60°
	52.5-59.2m heavy fracture, irregular joint directions. Most common are 20° 30° 60°. Below 54m volcanics are very carbonate rich with abundant minor veins and cavities and solution channels with consequent structural loss.	20°30°60°
	59.2-61.3m breccia Volcanic fragments varying from several mms. dia. up to 5 cm dia. bound in a clay/chlorite matrix.	
	61.3m-66.3m intermediate fracture. Core is still a breccia although volcanic fragments cemented together in a fine grained crystalline (?) groundmass containing blebs of mica. The mica blebs often have a black fine grained border of biotite (?). These spots appear to be mainly in the groundmass although the border of the groundmass and fragments is often difficult to define.	35°40°65°
	66.3-68.5m heavy fracture.	irregular
	68.5-70.7 low fracture with minor carbonate veining.	30° 50°

DRILL LOG — DRILL HOLE No. 403

UNIT	GEOLOGICAL DESCRIPTION			FRACTURING
	70.7-73.4m breccia			
	73.4-80.0m intermediate fracture . Some minor carbonate veining with infilling of cavities, some veins up to 3 cm. wide. Between 79.5-79.7m there is extensive mica developement in groundmass which shows an almost fluidal texture as it flows (?) around the fragments of pumice - welded tuff (?).			$20^{\circ}30^{\circ}45^{\circ}$
	80.0-81.0m heavy fracture			irregular
	81.0-82.5m low to intermediate fracture with moderate to abundant carbonate veining			0° 30°
	82.5-83.5m heavy fracture, clay and chlorite filled joints.			0° 20°
	83.5-84.5m low to intermediate fracture			25° 30°
	84.5-85.5m heavy fracture clay and chlorite on joint planes. Volcanics do not have such an agglomeratic texture below 82.0m.			60°
	85.5-90.5m intermediate fracture			40°
	90.5-97.2m heavy fracture with much core lost.			
	90.8-91.2	0.4	lost	
	92.4-92.9	0.2	lost	
	94.3-94.7	0.2	lost	
	94.7-95.3	0.6	lost	
	95.3-95.5	0.1	lost	
	95.5-96.0	0.4	lost	
	96.0-96.8	0.8	lost	
BIOTITE HORNFELS/ VOLCANICS 97.2-106.2m	Intermixed biotite hornfels and volcanics. Angular fragments of volcanics arranged with no specific orientation with lenses of biotite hornfels. Joints predominantly clay and chlorite filled.			35° 60°
BIOTITE HORNFELS 106.2-129.7	Purplish grey fine grained rock with typical crystalloblastic hornfels texture			25°
	Bedding visible at 25° to core axis and this plane also acts as the major joint direction. Some lost core			
	106.9 - 107.5	0.3	lost	
	108.5 - 109.2	0.5	lost	
	110.9 - 111.2	0.2	lost	

GEOPEKO LIMITED, KING ISLAND.

DIAMOND

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS WO_3	ASSAYS Mo
A 4551	132.0	132.5	0.5		0.03	0.01
2	132.5	133.0	0.5		2.50	0.07
3	133.0	133.5	0.5		0.36	0.01
4	133.5	134.0	0.5		2.60	0.06
5	134.0	134.5	0.5		1.26	0.05
6.	134.5	135.0	0.5		1.09	0.03
7	135.0	135.5	0.5		1.50	0.05
8	135.5	136.5	1.0		0.31	0.03
60	136.5	137.0	0.5		0.52	0.01
1	137.0	137.5	0.5		0.64	0.02
2	137.5	138.0	0.5		0.34	0.01
3	138.0	138.5	0.5		0.03	0.02
4	138.5	139.0	0.5		0.05	0.01
5	139.0	139.5	0.5		0.29	0.01
6	139.5	140.0	0.5		0.49	0.03
7	140.0	140.5	0.5		0.21	0.01
8	140.5	141.0	0.5		0.18	0.01
9	141.0	141.5	0.5		0.29	0.01
70	141.5	142.0	0.5		0.03	0.01
1	142.0	142.5	0.5		0.05	0.01
2	142.5	143.0	0.5		0.75	0.03
3	143.0	143.5	0.5		0.28	0.01
4	143.5	144.0	0.5		0.10	0.01
5	144.0	144.5	0.5		11.10	0.21
6	144.5	145.0	0.5		3.30	0.10
7	145.0	145.5	0.5		0.17	0.01
8	145.5	146.0	0.5		0.20	0.01
9	146.0	146.5	0.5		0.03	0.01
80	146.5	147.0	0.5		0.03	0.01
1	147.0	147.5	0.5		0	0.01
2	147.5	148.0	0.5		0.01	0.01
3	148.0	148.5	0.5		0.03	0.01
4	148.5	149.0	0.5		0.03	0.01
5	149.0	149.5	0.5		0	0.01
6	149.5	150.0	0.5		0.13	0.01
7	150.0	150.5	0.5		0	0.01
8	150.5	151.0	0.5		0.01	0.01

DRILL LOG

DRILL HOLE No.

UNIT	GEOLOGICAL DESCRIPTION	FRACTURE
	111.5-111.8m minor pyroxene hornfels developed.	
	110.0-115.0m main joint direction 40°	40°
	NOTE: Heavy water inflow at 105.8m	
	115.0-122.5m Very heavy fracture with core not much better than rubble in places. Core recovery appears to be 100% although difficult to tell. Main joint direction are 30° 45° 50°. Bedding planes 40° - 50° with majority of joints parallel to bedding planes. Abundant chlorite on bedding planes.	30° 40° 50°
	122.5-127.0 intermediate fracture. Bedding 30° joints 30°	30°
	127-130.4 Very heavy fracture - core is only rubble.	
PYROXENE HORNFELS 129.7-130.5	Pale greenish grey rock, bedding 45° 50°. Jointing mainly in this direction although some is irregular.	45° 50°
INTERBEDDED Ph/Gph 130.5 - 133.0	Alternatively green pyroxene hornfels with pale brown garnet hornfels. Minor disseminated scheelite. Bedding 40°, main joint plane 30°	30°
GARNET HORNFELS 133.0 - 138.7	Mainly a reddish brown rock with abundant carbontate. Bands of pyroxene hornfels up to 10 cm wide usually with little or no scheelite at 65°. Generally low fracture. Some unreplaced crabonate bands at 138.0.	
PYROXENE HORNFELS 138.7 - 140.0	Brecciated grey green pyroxene hornfels re-cemented in a chlorite matrix. No scheelite mineralisation.	
GARNET PYROXENE HORNFELS 140.0-	Brownish green rock, low fracture with unreplaced calcite hornfels at 141.6 - 142.3m	
	143.4m 1-3/8" dia. BQ Core.	

GEOPEKO LIMITED, KING ISLAND. DIAMO

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS		
A 4589	151.0	151.5	0.5		0.01	0.01	
90	151.5	152.0	0.5		0.01	0.01	
1	152.0	152.5	0.5		0.02	0.01	
2	152.5	153.0	0.5		0.41	0.02	
3	153.0	153.5	0.5		0.05	0.01	
4	153.5	154.0	0.5		0.05	0.01	
5	154.0	154.5	0.5		0.29	0.01	
6	154.5	155.0	0.5		0.04	0.01	
7	155.0	155.5	0.5		0.03	0.01	
8	155.5	156.0	0.5		0.17	0.01	
9	156.0	156.5	0.5		0.36	0.01	
A 4600	156.5	157.0	0.5		0.21	0.01	
1	157.0	157.5	0.5		0.07	0.01	
2	157.5	158.0	0.5		0.07	0.01	
3	158.0	158.5	0.5		0.01	0.01	
4	158.5	159.0	0.5		0.01	0.01	
5	159.0	159.5	0.5		0.01	0.01	
6	159.5	160.0	0.5		0.20	0.01	
7	160.0	160.5	0.5		0.01	0.01	
8	160.5	161.0	0.5		0.01	0.01	
9	161.0	161.5	0.5		0.01	0.01	
10	161.5	162.0	0.5		0.01	0.01	
A 4611	162.0	162.5	0.5		0.01	0.01	
A 4612	162.5	163.0	0.5		0.03	0.01	

UNIT	GEOLOGICAL DESCRIPTION	FRAC
PYROXENE HORNFELS	Green pyroxene hornfels with occasional bands of Garnet hornfels. Some coarse scheelite at 144.1 m.	
CALCITE/PYROXENE HORNFELS 145.1-150.65	A dirty mica spotted marble with minor interbeds of green pyroxene hornfels. Bedding very prominent at 50° and jointing mainly in this direction. Moderate carbonate veining although most joints are cemented. Some irregular carbonate veins up to 1 cm wide sub parallel to core axis. Minor disseminated scheelite. Best scheelite at 149.80 where there is minor skarn developement. Fracture low to intermediate to 152.0m then high to severe at 153.5m where marble has been leached - many solution channels.	50°
CALCITE HORNFELS 150.65 - 153.40	Marble continues dirty and spotted as before but no pyroxene hornfels present.	
Ch/Ph/Gh 153.40 - 155.25	An interbedded mixture of these hornfels with some minor disseminated scheelite. Fracture is low with no obvious joint directions.	
PYROXENE HORNFELS 155.25 - 157.9	Predominantly green pyroxene hornfels with minor interbedded calcite hornfels. Low Fracture.	40° 50°
CALCITE HORNFELS	Marble here is much 'cleaner" than before with less mica spots developed. Bedding at 50° Bedding planes are shown clearly by impurities along these planes. Jointing low-usually at 50° with some sub parallel carbonate veins 1 cm wide at 160.2 - 160.6 and 161.35 161.50m. Marble becomes dirty and spotted	50°

GEOPEKO LIMITED, KING ISLAND.

DIAMOND

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS			
A 4613	193.0	193.5	0.5		0.01	0.01		
4	193.5	194.0	0.5		0.03	0.01		
5	194.0	194.5	0.5		0.02	0.01		
6	194.5	195.0	0.5		0.02	0.01		
7	195.0	195.5	0.5		0.04	0.01		
8	195.5	196.0	0.5		0.03	0.01		
9	196.0	196.5	0.5		0.03			
20	196.5	197.0	0.5		0.13			
1	197.0	197.5	0.5		0.29			
8 2	197.5	198.0	0.5		0.03			
3	198.0	198.5	0.5		0.04			
4	198.5	199.0	0.5		0.03			
5	199.0	199.5	0.5		0.04			
6	199.5	200.0	0.5		0.03			
7	200.0	200.5	0.5		0.03			
8	200.5	201.0	0.5		0.10			
9	201.0	201.5	0.5		1.60	0.04		
30	201.5	202.0	0.5		4.70	0.08		
1	202.0	202.5	0.5		4.20	0.09		

UNIT	GEOLOGICAL DESCRIPTION	FRACTURE
	again at 161.8 0 162.6m.	
	162.8 - 163.3m intermixed Ph/Ch.	
BIOTITE HORNFELS 163.3 - 192.87	Hangingwall biotite hornfels. A purplish grey rock with heavy fracture to 180m. Bedding 55° to 60° but often appears to "flow" around fragments of a siliceous nature often elongated in the direction of the bedding. Majority of joints clay and chlorite filled.	
	163.3 - 166.0m - a flaggy appearance as though a white solution has percolated through the pile.	
	166.0 - 166.3m pyroxene rich.	
	166.6 - 167.0m pyroxene rich	
	Major chlorite vein 1 cm wide at 167.9	
	168.9 - 170.1 m pyroxene hornfels with moderate carbonate veining. Heavy fracture to 180.0 with minor carbonate veins, often up to 1 cm wide usually parallels bedding. Most joints clay/chlorite filled.	55° 60°
	180.0 - 192.87 low to intermediate fracture Bedding 45°. Joints mixture of clay/ chlorite/ calcite filled.	45° 25°
PYROXENE GARNET HORNFELS 192.87- 201.82 m	Pale pyroxene green matrix with angular brecciated pieces of carbonate varying in size form 1 mm up to 4 cm dia. usually rimmed irreg by pale orange garnets. Very minor disseminated scheelite. Rock is low to moderately fractured with most directions irregular although cemented together with clay and chlortie. 196.10 - 196.40 biotite hornfels.	
GARNET SKARN 201.82 -216/80	Mottled red, brown, white, rock with low fracture. Carbonate infilling on joint planes Abundant disseminated scheelite.	

GEOPEKO LIMITED, KING ISLAND.

DIAMON

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS			
5	204.0	204.5	0.5		2.10	0.07		
6	204.5	205.0	0.5		0.35	0.01		
7	205.0	205.5	0.5		1.49	0.05		
8	205.5	206.0	0.5		0.74	0.04		
9	206.0	206.5	0.5		0.84	0.03		
40	206.5	207.0	0.5		1.17	0.06		
1	207.0	207.5	0.5		0.86	0.04		
2	207.5	208.0	0.5		1.35	0.04		
3	208.0	208.5	0.5		0.57	0.04		
4	208.5	209.0	0.5		0.60	0.02		
5	209.0	209.5	0.5		0.36	0.02		
6	209.5	210.0	0.5		0.63	0.02		
7	210.0	210.5	0.5		1.00	0.04		
8	210.5	211.0	0.5		0.95	0.05		
9	211.0	211.5	0.5		0.16	0.01		
50	211.5	212.0	0.5		0.17	0.01		
1	212.0	212.5	0.5		0.42	0.02		
2	212.5	213.0	0.5		1.94	0.14		
3	213.0	213.5	0.5		0.85	0.03		
4	213.5	214.0	0.5		0.51	0.02		
5	214.0	214.5	0.5		0.54	0.01		
6	214.5	215.0	0.5		0.41	0.02		
7	215.0	215.5	0.5		0.20	0.01		
8	215.5	216.0	0.5		0.05	0.01		
9	216.0	216.5	0.5		0.03	0.01		
60	216.5	217.0	0.5		0.03	0.01		
1	217.0	217.5	0.5		0.03	0.01		
2	217.5	218.0	0.5		0.02	0.01		
3	218.0	218.5	0.5		0.28	0.01		
4	218.5	219.0	0.5		0.30	0.02		
5	219.0	219.5	0.5		0.14	0.01		
6	219.5	220.0	0.5		0.25	0.01		
7	220.0	220.5	0.5		0.31	0.02		
8	220.5	221.0	0.5		0.33	0.02		
9	221.0	221.5	0.5		0112	0.01		
70	221.5	222.0	0.5		0.03	0.01		
1	222.0	222.5	0.5		0.49	0.02		
2	222.5	223.0	0.5		0.12	0.01		
3	223.0	223.5	0.5		0.33	0.02		
4	223.5	224.0	0.5		0.06	0.01		
5	224.0	224.5	0.5		0.03	0.01		
6	224.5	225.0	0.5		0.01	0.01		
7	22500	225.5	0.5		0.01	0.01		
8	225.5	226.0	0.5		0.02	0.01		

DRILL LOG

DRILL HOLE No. 403

UNIT	GEOLOGICAL DESCRIPTION	FRAC
	208.0 - 209.0 inclusion Ph	
	209.25-209.50 inclusion Bh both with low scheelite. Bedding in the biotite hornfels inclusion at 60° with joints in that direction chlorite filled.	
	210.3 - 210.4 some pyroxene rich banding at 40° - 45°.	
	211.0 - 211.2 calcite hornfels.	
	211.20 - 214.60 interbedded skarn with Ph. Scheelite is still abundant although skarn is not as continuous as before.	
	214.60 - 216.80 Mainly Ph with minor sections of skarn - biggest up to 10 cm. Some unreplaced bands of marble becoming more prominent.	45° 50°
	Than banding, i.e. bedding in these hornfels is 45° - 50°.	
Bh/Ph 216.80 - 219.20	Interbedded biotite pyroxene hornfels, usually thin bands up to 1 cm wide. Bedding at 60°	60°
	218.0 - 219.20 more pyroxene rich with minor skarn developed.	
BANDED FOOTWALL BEDS 219.20-235.0	Banded Bh, Ph, Ch and Gh, banding at 50°.	50°
	Banding is usually narrow, of the order of 1 cm but some unreplaced calcite bands up to 10 cm	
	The Bh, Ph, and Gh is not usually greater than 1 cm. Very minor scheelite in these beds	
	except in certain replaced areas e.g 223.80	
	224.0m The replaced parts are evident by the assays. Fracture is low with joints mainly along	
	bedding planes. Greater than 230m the footwall	
	beds are mainly Bh/Ph with only very minor Ch/Gh. Banding 55° - 60°.	55° 60°
	228.5 230.5 moderate fracture.	

GEOPEKO LIMITED, KING ISLAND.

DIAMO

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RED'D.	ASSAYS		
9	226.0	226.5	0.5		0.04	0.01	
80	226.5	227.0	0.5		0.34	0.02	
1	227.0	227.5	0.5		0.39	0.02	
2	227.5	228.0	0.5		0.94	0.04	
3	228.0	228.5	0.5		0.03	0.01	
4	228.5	229.0	0.5		0.04	0.01	
5	229.0	229.5	0.5		0.08	0.01	
6	229.5	230.0	0.5		0.28	0.01	
7	230.0	230.5	0.5		0.03	0.01	
8	230.5	231.0	0.5		0.02	0.01	
9	231.0	231.5	0.5		0.33	0.02	
90	231.5	232.0	0.5		1.02	0.05	
1	232.0	232.5	0.5		0.07	0.01	
2	232.5	233.0	0.5		1.49	0.04	
3	233.0	233.5	0.5		0.55	0.02	
4	233.5	234.0	0.5		0.06	0.01	
5	234.0	234.5	0.5		0.03	0.01	
6	234.5	235.0	0.5		0.04	0.01	

DRILL LOG

DRILL HOLE No.

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
OLDER VOLCANICS 235.5 - 240.85	Fine grained Grey massive rock with minor blebs of mica up to 3 mm dia. Fracture is low, with minor carbonate veining. Much more competent than upper volcanics.	60° 65°
Bh/Ph 240.85 - 247.85	Banded Ph and Bh, bands not usually greater than 1 cm and at 50° - 60° to core axis. Jointing moderate along bedding planes. Clay and chlorite on joint planes.	50° 60°
APLITE 247.84 - 248.63	Fine grained white rock of high quartz feldspar content with little ferromagnesium. Low Fracture	
Bh/Ph 248.63 249.78	Banded Bh and Ph as above	50° 60°
	249.78 metres. END OF HOLE.	

DDH 403

Location: 2 Orebody

Coordinates:

RL + 2·48 m.

Date commenced:

Date completed:

Final Depth : 249·78 m.

Surveyed on;

Logged by :

Inclination : Vertical.

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 403

Logged By: MJD

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4551	132	132.5	0.5	0.03	0.01		
4 2	132.5	133	1.42	2.50	0.07		
3	133	133.5		0.36	0.01		
4	133.5	134	1.93	2.60	0.06		
5	134	134.5		1.26	0.05		
6	134.5	135	1.30	1.09	0.03		
7	135.	135.5		1.50	0.05		
8	135.5	136.5	1.0 0.31	0.31	0.03		
60	136.5	137	0.5 0.58	0.52	0.01	3.5 m at 1.0% WO_3	
1	137	137.5		0.64	0.02		B. lens.
2	137.5	138	0.19	0.34	0.01		
3	138	138.5		0.03	0.02		
4	138.5	139	0.17	0.05	0.01		
5	139	139.5		0.29	0.01		12.5 m at 1.13% WO_3
6	139.5	140	0.35	0.49	0.03		
7	140	140.5		0.21	0.01		
8	140.5	141	0.23	0.18	0.01		
9	141	141.5		0.29	0.01		
70	141.5	142	0.04	0.05	0.01		
1	142	142.5		0.09	0.01		
2	142.5	143	0.51	9.75	0.03		
3	143	143.5		0.28	0.01		
4	143.5	144	4.00 ~~5.60~~	0.10	0.01		B lens.
5	144	~~144.5~~		11.10	0.21	11.09	~~12.5m~~ 13 m at 0.952 WO3
6	144.5	145	1.74	3.30	0.10		G.B.

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 403

Logged By: MJD

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4577	145	145.5	0.5	0.17	0.01		
8	145.5	146	0.5	0.20	0.01		
9	146	146.5	.11	0.03	0.01		
80	146.5	147	.01	0.03	0.01		
1	147	147.5		0	0.01		
2	147.5	148	.02	0.01	0.01		
3	148	148.5		0.03	0.01		
4	148.5	149	.01	0.03	0.01		
5	149.	149.5		0	0.01		
6	149.5	150	.04	0.13	0.01		
7	150	150.5		0	0.01		
8	150.5	151	.01	0.01	0.01		
9	151	151.5		0.01	0.01		
90	151.5	152	.01	0.01	0.01		
1	152	152.5		0.02	0.01		
2	152.5	153	.23	0.41	0.02		
3	153	153.5		0.05	0.01		
4	153.5	154.	.18	0.06	0.01		
5	154	154.5		0.29	0.01		
6	154.5	155	.03	0.04	0.01		
7	155	155.5		0.03	0.01		
8	155.5	156	.24	0.17	0.01		
9	156	156.5		0.36	0.01		
A 4600	156.5	157		0.21	0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 403

Logged By: MJD

	Sample No.	FOOTAGES Metres			ASSAYS		L X A	REMARKS
		From	To	Length	WO_3	Mo		
	A 4601	157.0	157.5	0.5	0.07	0.01		
	2	157.5	158	.04	0.07	0.01		
	3	158	158.5		0.01	0.01		
	4	158.5	159	.01	0.01	0.01		
	5	159	159.5		0.01	0.01		
	6	159.5	160	.10	0.20	0.01		
	7	160.	160.5		0.01	0.01		
	8	160.5	161	.01	0.01	0.01		
	9	161	161.5		0.01	0.01		
	10	161.5	162.	.01	0.01	0.01		
	1	162	162.5		0.01	0.01		
	2	162.5	163		0.03	0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 403

Logged By: _____

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4613	193	193.5	0.5	0.01	0.01		
4	193.5	194	1.0	0.03	0.01		
5	194	194.5	1.0	0.02	0.01		
6	194.5	195		0.02	0.01		
7	195	195.5	1.0	0.04	0.01		
8	195.5	196		0.03	0.01		
9	196	196.5	0.97	0.03			
20	196.5	197		0.13			
1	197	197.5	0.16	0.29			
2	197.5	198		0.03			
3	198	198.5	0.93	0.04			
4	198.5	199		0.03			
5	199	199.5	0.94	0.04			
6	199.5	200		0.03			
7	200	200.5	0.96	0.03			
8	200.5	201.		0.10			
9	201	201.5	3.15	1.60	0.04		
30	201.5	202		4.70	0.08		
1	202	202.5	3.80	4.20	0.09		
2	202.5	203		3.40	0.08		
3	203	203.5	1.87	1.95	0.07		
4	203.5	204		1.78	0.04		
5	204	204.5	1.22	2.10	0.07		
6	204.5	205		0.35	0.01		
7	205	205.5	1.12	1.49	0.05		
8	205.5	206		0.74	0.04		
9	206	206.5	1.01	0.84	0.03		
40	206.5	207		1.17	0.06		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 403

Logged By: _____

Sample No.	FOOTAGES Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4641	207	207.5	0.5	0.86	0.04		
2	207.5	208	1.10	1.35	0.04		
3	208	208.5		0.57	0.04		
4	208.5	209	0.50	0.60	0.02		
5	209	209.5		0.36	0.02		
6	209.5	210	0.50	0.63	0.02		14.0 m at 1.27% WO_3
7	210	210.5		1.00	0.04		
8	210.5	211	0.97	0.95	0.05		
9	211	211.5		0.16	0.01		
50	211.5	212	0.16	0.17	0.01		
1	212	212.5		0.42	0.02		
2	212.5	213	1.17	1.94	0.14		
3	213	213.5		0.85	0.03		
4	213.5	214	0.68	0.51	0.02		
5	214	214.5		0.54	0.01		
6	214.5	215	0.48	0.41	0.02		
7	215	215.5		0.20	0.01		
8	215.5	216	0.12	0.05	0.01		
9	216	216.5		0.03	0.01		
60	216.5	217	0.03	0.03	0.01		
1	217	217.5		0.03	0.01		
2	217.5	218	0.02	0.02	0.01		
3	218	218.5		0.28	0.01		
4	218.5	219	0.29	0.30	0.02		
5	219	219.5		0.14	0.01		
			0.20				

.02

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 403

Logged By: _____

Sample No.	FOOTAGES From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4666	219.5	220	0.05	0.25	0.01		
7	220	220.5	0.32	0.31	0.02		
8	220.5	221		0.33	0.02		5.5 metres
9	221	221.5	0.08	0.12	0.01		at
70	221.5	222		0.03	0.01		0.25% WO_3
1	222	222.5	0.31	0.49	0.02		
2	222.5	223		0.12	0.01		
3	223	223.5	0.20	0.33	0.02		
4	223.5	224		0.06	0.01		
5	224.	224.5	0.02	0.03	0.01		
6	224.5	225		0.01	0.01		
7	225.0	226.5	0.01	0.01	0.01		
8	225.5	226.		0.02	0.01		
9	226	226.5	0.19	0.04	0.01		33m at
80	226.5	227		0.34	0.02		0.68% WO_3
1	227	227.5	0.67	0.39	0.02		
2	227.5	228		0.94	0.04		
3	228	228.5	0.03	0.03	0.01		
4	228.5	229		0.04	0.01		
5	229	229.5	0.18	0.08	0.01		
6	229.5	230		0.28	0.01		
7	230	230.5	0.03	0.03	0.01		
8	230.5	231		0.02	0.01		
9	231	231.5	0.67	0.33	0.02		
90	231.5	232		1.02	0.05		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 403

Logged By: _____

Sample No.	FEET~~S~~ Metres			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
A 4691	232	232.5	0.5	0.07	0.01		
2	232.5	233	0.78	1.49	0.04		
3	233	233.5	0.31	0.55	0.02		
4	233.5	234		0.06	0.01		
5	234	234.5	0.04 (22.28)	0.03	0.01		
6	234.5	235		0.04	0.01		

DDH 403

Total depth: 819.5'

SURVEYED TO: 810'

CASING TO: 469'

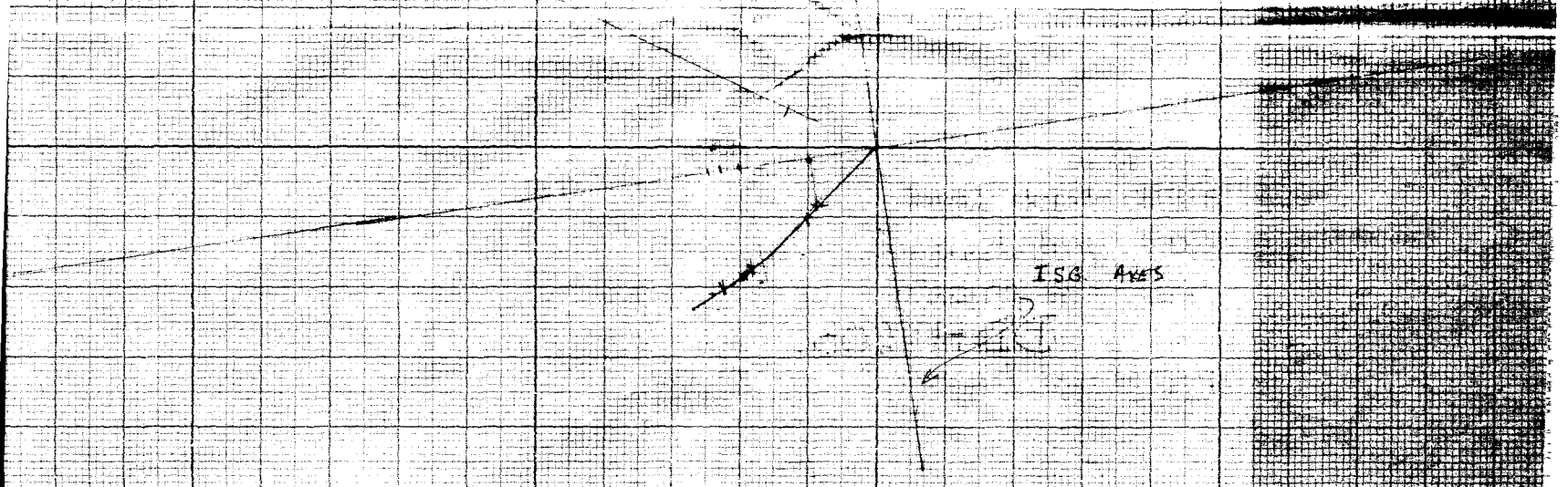
Date surveyed: 23.10.71

SURVEYED BY: M.J.D

Scale 1:500

DDH 403

PLAN VIEW



I.S.G.

I.S.G.

W

E

N

S

360

180

150

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No.	103	Date Surveyed	23.10.71
Total Depth	819.5	Depth Surveyed To	810
Casing Depth	469	Surveyed By	MJD.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
ϕ	0	obscured			23	22	290	3°		
2	1	obscured			24	23	310	2° 45'		
3	2	cloud			25	24	310	3° 45'		
4	3	cloud			26	25	330	3		
5	4	cloud			27	26	350	3		
6	5	10	1°		28	27	370	3° 15'		
7	6	M	-		29	28	390	3° 30'		
8	7	30	1° 45		30	29	410	3° 45'		
9	8	50	?		31	30	410	3° 45		
10	9	70	3°		32	31	430	4		
11	10	90	3°		33	32	450	3° 45'		
12	11	110	3°		34	33	470	3 45	N S E	CASING?
13	12	130	3°		35	34	490	4	S 0°W	
14	13	150	3°		36	35	510	4° 15	S 0 W	
15	14	150	3°		37	36	530	4° 15	S 0 W	
16	15	190	2° 45		38	37	530	4° 15	S 0 W	
17	16	190	2° 30'		39	38	550	4° 45'	S 0 W	
18	17	210	2° 30		40	39	570	4° 45	S 0 W	
19	18	210	2° 30'		41	40	590	5° 15	S 0 W	
20	19	230	2° 30'		42	41	610	6	S 51° W	
21	20	250	2° 45		43	42	610	6	S 0 W	
22	21	270	2° 45		44	43	630	6	S 50 W	

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No.	403	Date Surveyed	23.10.71
Total Depth	819.5'	Depth Surveyed To	810
Casing Depth	469'	Surveyed By	MJD

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
45	44	650	6	S 52 W	67	66	570	4° 30	S 46 W	
46	45	670	6° 15	S 50 W	68	67	550	4 30	S 42 W	
47	46	690	6° 15	S 52 W	69	68	530	4	S 43 W	
48	47	710	6° 30	S 52 W	70	69	510	4° 15	S 45 W	
49	48	710	6° 30	S 52 W		70	510	4° 15'	S 48 W	
50	49	730	6° 45	S 51 W						
51	50	750	6 45	S 59 W						
52	51	770	6 45	S 59 W						
53	52	790	7	S 60 W						
54	53	810	7 30	S 58 W						
55	54	810	7 30	S 58 W						
56	55	790	7 15	S 57 W						
57	56	770	6 45	S 55 W						
58	57	750	6 30	S 58 W						
59	58	730	6 30	S 59 W						
60	59	710	6 30	S 59 W						
61	60	690	6 30	S 55 W						
62	61	670	6 30	S 52 W						
63	62	650	6 15	S 52 W						
64	63	630	6	S 51 W						
65	64	610	6	S 51 W						
66	65	590	5° 15	S 50 W						

REMARKS:-

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
10	1	1 00	.9998 / .0175	9.998	10.00	.175							
30	1 45	1 45	.9995 / .0305	19.99	29.99	.61							
50	2 15	2 15	.9992 / .0393	19.98	49.97	.79							
70	3 00	3 00	.9986 / .0523	19.97	69.94	1.05							
90	3 00	3 00	.9986 / .0523	19.97	89.91	1.05							
110	3 00	3 00	.9986 / .0523	19.97	109.88	1.05							
●	3 00	1											
130	3 00	3 00	.9986 / .0523	19.97	129.85	1.05							
150	3 00	3 00	.9986 / .0523	19.97	149.82	1.05							
170	2 45	2 45	.9988 / .0480	19.99	169.79	.96							
190	2 30	2 30	.9990 / .0436	19.98	189.77	.87							
210	2 30	2 30	.9990 / .0436	19.98	209.75	.87							
	2 30	1											
230	2 30	2 30	.9990 / .0436	19.98	229.73	.87							
250	2 45	2 45	.9988 / .0480	19.97	249.70	.96							
270	2 45	2 45	.9988 / .0480	19.97	269.67	.96							
290	3	3 00	.9986 / .0523	19.97	289.64	1.05							
310	2 45	2 45	.9988 / .0480	19.97	309.61	.96							
	2 45	1											
330	3 00	3 00	.9986 / .0523	19.97	329.58	1.05							
350	3 00	3 00	.9986 / .0523	19.97	349.55	1.05							
370	3 15	3 15	.9984 / .0567	19.97	369.52	1.13							
390	3 30	3 30	.9981 / .0610	19.96	389.48	1.22							
410	3 45	3 45	.9979 / .0654	19.96	409.44	1.308							
	3 45	1					Total Deflection						
430	4 00	4 00	.9976 / .0698	19.95	429.39	1.40							
450	3 45	3 45	.9979 / .0654	19.96	449.35	1.31							
470	3 45	3 45	.9979 / .0654	19.96	469.31	1.31	S 45° W		.7071 / .7071	14.04	14.04	5.19 / 17.04	5.19 / 17.04
490	4 00	4 00	.9976 / .0698	19.95	489.26	24.10 / 1.40	S 43 W	S 43 W	.7314 / .6820	1.02	.95	5.50 / 18.06	5.48 / 17.99

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. #/S	Co-Ords. #/W	Sum of Co-Ords. #/S	Sum of Co-Ords. #/W
510	4 15	4 15	.9973 / .0741	19.95	155.2 509.21	1.48	S 47 W	S 46½ W	.6884 / .7254	1.02	1.07	5.81 19.08	5.81 19.06
	4 15						S 46 W						
530	4 15	4 07½	.9975 / .0720	19.95	529.16	1.44	S 48 W	S 45½ W	.7009 / .7133	1.01	1.03	6.12 20.09	6.12 20.09
	4 00						S 43 W						
550	4 45	4 39½	.9967 / .0805	19.93	549.09	1.61	S 44 W	S 43 W	.7814 / .6820	1.18	1.10	6.48 21.27	6.46 21.19
	4 30						S 42 W						
570	4 45	4 39½	.9967 / .0805	19.93	569.02	1.61	S 45 W	S 45½ W	.7009 / .7133	1.13	1.15	6.82 22.40	6.80 22.34
	4 30						S 41 W						
590	5 15	5 15	.9958 / .0915	19.91	588.93	1.83	S 43 W	S 46½ W	.6884 / .7254	1.26	1.33	7.21 23.66	7.21 23.67
	5 15						S 50 W						
610	6 00	6 00	.9945 / .1045	19.89	185.5 608.82	2.09	S 51 W	S 51 W	.6293 / .7771	1.31	1.62	7.61 24.97	7.71 25.29
	6 00						S 51 W						
630	6 00	6 00	.9945 / .1045	19.89	628.71	2.09	S 50 W	S 50½ W	.6361 / .7716	1.33	1.61	8.02 26.30	8.20 26.90
	6 00						S 51 W						
650	6 00	6 07½	.9943 / .1067	19.88	648.59	2.13	S 52 W	S 52 W	.6159 / .7880	1.31	1.68	8.42 27.61	8.71 28.58
	6 15						S 52 W						
670	6 15	6 22½	.9938 / .1110	19.87	668.46	2.22	S 50 W	S 52 W	.6157 / .7880	1.37	1.75	8.83 28.98	9.24 30.33
	6 30						S 54 W						
690	6 15	6 22½	.9938 / .1110	19.87	688.33	2.22	S 52 W	S 53½ W	.5948 / .8039	1.32	1.78	9.23 30.30	9.79 32.11
	6 30						S 55 W						
710	6 30	6 30	.9936 / .1132	19.87	215.8 708.20	2.26	S 52 W	S 55½ W	.5664 / .8241	1.28	1.86	9.62 31.58	10.35 33.97
	6 30						S 59 W						
730	6 45	6 39½	.9934 / .1154	19.89	728.09	2.31	S 57 W	S 58 W	.5299 / .8480	1.22	1.96	9.99 32.80	10.95 35.93
	6 30						S 59 W						
750	6 45	6 39½	.9934 / .1154	19.89	747.98	2.31	S 59 W	S 58½ W	.5225 / .8526	1.21	1.97	10.36 34.01	11.55 37.90
	6 30						S 58 W						
770	6 45	6 45	.9931 / .1175	19.86	767.84	2.35	S 59 W	S 57 W	.5446 / .8387	1.28	1.98	10.75 35.29	12.15 39.88
	6 45						S 55 W						

Sheet No. ... of ...

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed To _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords.		Sum of Co-Ords.	
										N/S	E/W	N/S	E/W
790	7 1/00	7 10 1/2	.9922 / .1240	19.84	787.68	2.48	S 60 W	S 58 1/2 W	.5225 / .8526	1.30	2.11	11.15 36.59	12.79 41.99
	7 15						S 57 W						
810	7 30	7 30	.9914 / .1305	19.83	806.1 809.51	2.61	S 56 W	S 56 W	.5592 / .8290	1.46	2.16	11.59 38.05	13.45 44.15
	7 30						S 56 W						

DIAMOND DRILL HOLE NO. 4C2

LOCATION: No. 2 OREBODY

CO-ORDINATES: 564046.4 N 220348.0 E

R.L.: + 4.68 metres

DATE COMMENCED; 5.1.71

DATE COMPLETED; 30.3.71

FINAL DEPTH: 297.48 metres

DATE SURVEYED:

LOGGED BY: M.J. Danielson

HOLLINGER CONSOLIDATED

	SAMPLE	DISTANCE FROM	DISTANCE TO	LENGTH	LENGTH	ASSAYS
			DIAMOND DRILL HOLE 402			
PRECOLLAR		0	10	10	Nil	
		10	13.7	3.7		
		13.7	15.3	1.6		
		15.3	18.6	3.3		
		18.6	25.3	6.6	Nil	
		25.2	118.0	93.8		

TAIL ON DRILLED

UNIT	GEOLOGICAL DESCRIPTION	FRACT
ROCK FILL	Hornfels - dump material	
SAND	Coarse sand and gravel	
SAND	Fine marine sand.	
SAND	Coarse sand and gravel	
NO CORE 18.6-25.2 m		
VOLCANICS	Fine to medium grained, dark greenish grey to black rock. Heavily jointed and fractured. Joints usually chlorite and calcite coated.	5°,15°,
	25.2m - 30.8m 2 3/8" dia. NX core	
	30.8m - 120m 1 13/16" dia. NQ core.	
	Volcanics often porphyritic in places with mica phenocrysts up to ¼" in diameter. 30.8m - 38.0m core badly broken. Abundant calcite veining 39m - 44m	
	(49.9 - 50.0m breccia)	
	Rock rarely appears in sticks greater than 1 foot long. Ramifying calcite veins, usually at 20-30° but often at indiscriminate angles weaken rock strength.	
	81.1m - 7 cm wide quartz vein.	
	83.0 m-88.0m extensive brecciation.	
	90.0m are 2 cm wide mica rich bands at 50° to core axis. 20cm brecciation at 92m 84-85m.	
	Approx. 1m core lost although what is left could be fault gouge. 94-102m. Fault gouge with slickensides.	
	Breccia: 107.0 - 107.5m	
	Haematite clay band (marker?) 3 centimetres at 107.9m	
	Sheated volcanics, no calcite veining but abundant clay/chlorite filled fractures at 112.0 - 118.0 m. Shearing at 45° to axis.	45°

GEOPEKO LIMITED, KING ISLAND.

DIAM

SAMPLE NO.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	ASSAYS WO$_3$%	ASSAYS Mo%
	118	124.5	6.5			
	124.5	151.0	26.5			
	151.0	156.0	5.0			
	156.0	163.0	7.0			
F2954	163.0	163/5	0.5		0.46	0.02
5	163.5	164.0	0.5		0.58	0.01
6	164.0	164.5	0.5		0.30	0.01
7	164.5	165.0	0.5		0.29	0.01
8	165.0	165.5	0.5		0.46	0.02
9	165.5	166.0	0.5		1.74	0.03
60	166.0	166.5	0.5		0.26	0.01
1	166.5	167.0	0.5		0.04	0.01
2	167.0	167.5	0.5		0.61	0.02
3	167.5	168.0	0.5		3.13	0.06
4	168.0	168.5	0.5		0.77	0.03
5	168.5	169.0	0.5		0.56	0.03
6	169.0	169.5	0.5		0.87	0.05
7	169.5	170.0	0.5		1.06	0.05
8	170.0	170.5	0.5		0.92	0.03
9	170.5	171.0	0.5		1.33	0.04

ND DRILL LOG

DRILL HOLE No. 402

UNIT	GEOLOGICAL DESCRIPTION	FRACTU
INTERBEDDED VOLCANICS & BIOTITE HORNFELS 118.0m-124.5m.	Dark black, sugary textured rock with pyrite and fine grained garnets present in small quantities. At 120.0m 1 3/8" dia. BQ core.	
VOLCANICS 124.5-151.0 metres	The volcanics now appear more fresh, more siliceous and consequently more competent. These volcanics as those before are fragmental, minor brecciation in situ and intermixing between fragments and matrix-often being difficult to distinguish which is matrix and which is the fragment. The volcanics are much less fractured here with little or no carbonate. Minor shearing at 141-143m. Volcanics have a very "spotted" appearance from 148-151m.	
BIOTITE HORNFELS 151.0-156.0	Homogeneous black rock with typical hornfels texture. More competent rock than earlier volcanics. Joints at 60° predominate.	60
INTERBEDDED BIOTITE HORNFELS & ACTINOLITE HORNFELS 156.0-163.0m	Interbedded biotite hornfels and a siliceous green rock - very fine grained, hard and competent. Breccia 157-163m with less than 30% core recovery	
Ch/Gh/Bh KSARN 163.0-173.0	Impure andradite rich skarn. Finely disseminated scheelite with occasional coarse scheelite in fracture zones. Banding at 45-50°.	45-5(
	Wedge placed 173m	

GEOPEKO LIMITED, KING ISLAND. DIAMO

	SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	ASSAYS WC.%	ASSAYS Mo%
	70	171.0	171.5	0.5		0.21	0.01
	1	171.5	172.0	0.5		0.10	0.02
	2	172.0	172.5	0.5		0.53	0.03
	E3973	172.5	173.0	0.5		0.53	0.02
		173.0	192.0	19.0			
		192.0	194.0	2.0			
		194.0	209.0	15.0			
	A4451	208.25	208.75	0.5		0.05	0.02
	2	208.75	209.25	0.5		0.04	0.01
	3	209.25	209.75	0.5		13.6	0.17
	4	209.75	210.25	0.5		0.77	0.02
	5	210.0	210.5	0.5		0.89	0.02
	6	210.5	211.0	0.5		1.63	0.03
	7	211.0	211.5	0.5		1.34	0.02
	8	211.5	212.0	0.5		3.24	0.04
	9	212.0	212.5	0.5		1.46	0.03
	60	212.5	213.0	0.5		2.68	0.03
	1	213.0	213.5	0.5		1.56	0.01
	2	213.5	214.0	0.5		1.51	0.01
	3	214.0	214.5	0.5		1.66	0.02
	4	214.5	215.0	0.5		2.0	0.03
	5	215.0	215.5	0.5		1.87	0.02
	6	215.5	216.0	0.5		3.0	0.04
	7	216.0	216.5	0.5		2.25	0.06
	8	216.5	217.0	0.5			
	9	217.0	217.5	0.5			
	70	217.5	218.0	0.5			

UNIT	GEOLOGICAL DESCRIPTION	FRACTURE
MARBLE 173.0-192.0	Fine to medium grained grey competent marble Some banding at 15, 45 and 60°. Minor calcite veining .	15, 45, 6
ACTINOLITE DIOPSIDE HORNFELS 192.0 194.0	Olive green, fragmental rock. some carbonate veining at 60° also some chloxite filled veins.	
BIOTITE/PYROXENE HORNFELS 194.0-209.0 m	Interbedded biotite and pyroxene hornfels with occasional bands of a very siliceous green material. Banding at 50 60°. Abundant evidence of flow shearing, often fragmental with fragments contorted in the direction of the shear. Some carbonate veining 204.5m. Breccia 50 cm.	50° 55
PYROXENE/GARNET HORNFELS 209.0-210.5m	A fine grained green to black rock with occasional ovoides of calcite. Finely disseminated schéelite. Pgh grades into garnet skarn at 210.5 m approx.	
GARNET SKARN 210.5 225.5m	Medium grained brown white and occasionally green rock. Generally a competent rock with few fractures and joints. Any joints are usually tight and chlorite or calcite filled. Rock is finely disseminated schéelite	

GEOPEKO LIMITED, KING ISLAND.

DIAM

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	ASSAYS WO3%	ASSAYS Mo%
2	218.5	219.0	0.5		0.92	0.03
3	219.0	219.5	0.5		0.95	0.04
4	219.5	220.0	0.5		0.79	0.02
5	220.0	220.5	0.5		1.0	0.04
6	220.5	221.0	0.5		0.71	0.03
7	221.0	221.5	0.5		0.32	0.02
8	221.5	222.0	0.5		0.94	0.03
9	222.0	222.5	0.5		1.37	0.04
80	222.5	223.0	0.5		1.31	0.04
1	223.0	223.5	0.5		1.21	0.03
2	223.5	224.0	0.5		1.27	0.04
3	224.0	224.5	0.5		1.65	0.06
4	224.5	225.0	0.5		1.19	0.03
A4485	225.0	225.5	0.5		0.95	0.03
6	225.5	226.0	0.5		0.09	0.02
7	226.0	226.5	0.5		0.05	0.02
8	226.5	227.0	0.5		0.07	0.02
9	227.0	227.5	0.5		0.27	0.02
90	227.5	228.0	0.5		0.34	0.02
1	228.0	228.5	0.5		0.06	0.02
2	228.5	229.0	0.5		0.15	0.02
3	229.0	229.5	0.5		0.37	0.02
4	229.5	230.0	0.5		0.83	0.04
5	230.0	230.5	0.5		0.42	0.03
6	230.5	231.0	0.5		0.91	0.04
7	231.0	231.5	0.5		1.09	0.08
8	231.5	232.0	0.5		1.38	0.04
9	232.0	232.5	0.5		1.26	0.04
A4500	232.5	233.0	0.5		1.08	0.03
F3902	233.0	233.5	0.5		0.78	0.02
3	233.5	234.0	0.5		3.00	0.05
4	234.0	234.5	0.5		0.90	0.03
5	234.5	235.0	0.5		0.49	0.01
6	235.0	235.5	0.5		2.14	0.05
7	235.5	236.0	0.5		1.27	0.04
8	236.0	236.5	0.5		3.19	0.05
9	236.5	237.0	0.5		1.50	0.04
10	237.0	237.5	0.5		0.31	0.01
1	237.5	238.0	0.5		2.80	0.04
2	238.0	238.5	0.5		1.00	0.03

NE DRILL LOG

DRILL HOLE No. 402

UNIT	GEOLOGICAL DESCRIPTION	FRAC
BANDED BIOTITE PYROXENE HORNFELS 225.5-227.0m	~~Banded greenish balck rock. Fine to medium grained with bedding at 40-45°~~	
GARNET SKARN 227.0 247.0m	~~Garnet skarn as above~~	
BANDED BIOTITE PYROXENE CALCITE HORNFELS 247.0-259.0m	Banded footwal beds. Banding at 45-50° Generally a competent rock with major fracturing being along bedding plans. A medium to fine grained green brown and white rock with bands of grossularite granite garnets well developed. Minor very finely disseminated.	

GEOPEKO LIMITED, KING ISLAND. DIAMOND DH

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	ASSAYS	
3	238.5	239.0	0.5		1.83	0.04
4	239.0	239.5	0.5		3.68	0.06
5	239.5	240.0	0.5		1.49	0.04
6	240.0	240.5	0.5		1.55	0.05
7	240.5	241.0	0.5		0.23	0.02
8	241.0	241.5	0.5		1.74	0.04
9	241.5	242.0	0.5		2.92	0.04
20	242.0	242.5	0.5		1.76	0.03
1	242.5	243.0	0.5		1.78	0.03
2	243.0	243.5	0.5		0.73	0.03
F3923	243.5	244.0	0.5		0.72	0.03
4	244.0	244.5	0.5		0.74	0.03
5	244.5	245.0	0.5		0.22	0.02
6	245.0	245.5	0.5		1.89	0.04
7	245.5	246.0	0.5		2.65	0.04
8	246.0	246.5	0.5		1.34	0.04
9	246.5	247.0	0.5		0.87	0.02
30	247.0	247.5	0.5		0.66	0.02
1	247.5	24800	0.5		0.18	0.01
2	248.0	248.5	0.5		0.01	0.01
3	248.5	249.0	0.5		0.01	0.01
5	249.0	249.5	0.5		0.01	0.01
6	249.5	250.0	0.5		0.28	0.01
7	250.0	250.5	0.5		0.13	0.01
8	250.5	251.0	0.5		0.01	0.01
9	251.0	252.5	0.5		0.03	0.01
40	251.5	252.0	0.5		0.06	0.01
1	252.0	252.5	0.5		0.04	0.01
2	252.5	253.0	0.5		0.08	0.01
3	253.0	253.5	0.5		0.18	0.01
4	253.5	254.0	0.5		0.07	0.01
5	254.0	254.5	0.5		0.06	0.01
6	255.0	255.5	0.5		0.05	0.01
7	255.5	256.0	0.5		1.27	0.04
8	256.0	256.5	0.5		0.20	0.02
9	256.5	257.0	0.5		0.21	0.01
50	257.0	257.5	0.5		0.50	0.02
1	257.5	258.0	0.5		0.05	0.01
2	258.0	258.5	0.5		0.01	0.01
F3953	258.5	259.0	0.5		0.04	0.01

LOG

DRILL HOLE No. 402

UNIT	GEOLOGICAL DESCRIPTION	FFRACTU
VOLCANICS 259.0-264.0	Fine to medium grained dark greenish grey rock - basaltic in appearance. Slightly porphyritic with mica phenocrysts. Minor carbonate veining, some veins have chlorite rims. More competent rocks than upper volcanics. Minor shearing.	
BIOTITE PYROXENE HORNFELS 264.0-269.5m	Banded dark green and grey rock Banding at 65-70° with slight intermixing between pyroxene and biotite bands.	65-70°
APLITE 269.5-271.0	Fine grained white to pink rock of granitic composition. Mainly quartz and feldspar with less than 10% ferro-magnesian minerals	
BIOTITE PYROXENE HORNFELS 271.0-278.6m	Banding contorted at upper contact with aplite 65-70 Some silification and quartz veining.	
GRANITE 278.6-297.48m	Medium grained, occasionally porphyritic white pink granite. Rich in orthoclase with minor ferro magnesian minerals.	
	HOLE COMPLETED 297.48 metres	

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4451	208.25	208.75		0.05	0.02		
2	208.75	209.25		0.04	0.01		
3	209.25	209.75	.5	13.6	0.17		
4	209.75	210	.25	0.77	0.02		
5	210	210.5		0.89	0.02		
6	210.5	211		1.63	0.03		
7	211	211.5		1.34	0.02		
8	211.5	212		3.24	0.04		
9	212	212.5		1.46	0.03		
60	212.5	213		2.68	0.03		
1	213	213.5		1.56	0.01		
2	213.5	214		1.51	0.01		
3	214	214.5		1.69	0.02		
4	214.5	215		2.0	0.03		
5	215	215.5		1.87	0.02		
6	215.5	216		3.0	0.04		38.25 metres
7	216	216.5		2.23	0.03		at
8	216.5	217		1.52	0.03		1.44% WO_3
9	217	217.5		1.0	0.02		
70	217.5	218		1.31	0.03		
1	218	218.5		1.42	0.02		
2	218.5	219		0.92	0.03		
3	219	219.5		0.95	0.04		
4	219.5	220		0.79	0.02		
5	220	220.5		1.0	0.04		
6	220.5	221		0.71	0.03		
7	221	221.5		0.32	0.02		
8	221.5	222		0.94	0.03		
9	222	222.5		1.37	0.04		
80	222.5	223		1.31	0.04		
1	223	223.5		1.21	0.03		
2	223.5	224		1.27	0.04		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	FOOTAGES ~~FOOTAGES~~ Metres			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
A 4483	224	224.5		1.65	0.06		
4	224.5	225		1.19	0.03		
5	225	225.5		0.96	0.03		
6	225.5	226		0.09	0.02		
7	226	226,5		0.05	0.02		
8	226.5	227		0.07	0.02		
9	227	227.5		0.27	0.02		
90	227.5	228		0.34	0.02		
1	228	228.5		0.06	0.02		
2	228.5	229		0.15	0.02		
3	229	229.5		0.37	0.02		
4	229.5	230		0.83	0.04		
5	230	230.5		0.42	0.03		
6	230.5	231		0.91	0.04		
7	231	231.5		1.09	0.08		
8	231.5	232		1.38	0.04		
9	232	232.5		1.26	0.04		
A4500	232.5	233		1.08	0.03		
F 3902	233	233.5		0.78	0.02		
3	233.5	234		3.0	0.05		
4	234	234.5		0.90	0.03		
5	234.5	235		0.49	0.01		
6	235	235.5		2.14	0.05		
7	235.5	236		1.27	0.04		
8	236	236.5		3.19	0.05		
9	236.5	237		1.50	0.04		
10	237	237.5		0.3 1	0.01		
1	237.5	238		2.80	0.04		
2	238	238.5		1.00	0.03		
3	238.5	239		1.83	0.04		
4	239	239.5		3.68	0.06		
5	239.5	240		1.49	0.04		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
F 3916	240	240.5		1.55	0.05		
7	240.5	241		0.23	0.02		
8	241	241.5		1.74	0.04		
9	241.5	242		2.92	0.04		
20	242	242.5		1.76	0.03		
1	242.5	243		1.78	0.03		
2	243	243.5		0.73	0.03		
3	243.5	244		0.72	0.03		
4	244	244.5		0.74	0.03		
5	244.5	245		0.22	0.02		
6	245	245.5		1.89	0.04		
7	245.5	246		2.65	0.04		
8	246	246.5		1.34	0.04		
9	246.5	247		0.87	0.02		
30	247	247.5		0.66	0.02		
1	247.5	248		0.18	0.01		
2	248	248.5		0.01	0.01		
3	248.5	249		0.01	0.01		
4	249	249.5		0.06	0.01		
5	249.5	250		0.01	0.01		
6	250	250.5		0.28	0.01		
7	250.5	251		0.13	0.01		
8	251	251.5		0.01	0.01		
9	251.5	252		0.03	0.01		
40	252	252.5		0.06	0.01		
1	252.5	253		0.04	0.01		
2	253	253,5		0.08	0.01		
3	253.5	254		0.18	0.01		
4	254	254.5		0.07	0.01		
5	254.5	255		0.06	0.01		
6	255	255.5		0.05	0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	~~FOOTAGES~~ Metres			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
F 3947	255.5	256		1.27	0.04		
8	256	256.5		0.20	0.01		
9	256.5	257		0.21	0.01		
50	247	257.5		0.50	0.02		
1	257.5	258		0.05	0.01		
2	258	258.5		0.01	0.01		
F 3953	258.5	259		0.04	0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
F 3954	163	163.5	0.5	0.46	0.02	0.23	
5	163.5	164		0.58	0.01	0.29	
6	164	164.5		0.30	0.01	0.15	
7	164.5	165		0.29	0.01	0.145	
8	165	165.5		0.46	0.02	0.23	
9	165.5	166		1.74	0.03	0.87	
60	166	166.5		0.26	0.01	0.13	
1	166.5	167		0.04	0.01	0.02	
2	167	167.5		0.61	0.02	0.305	10 metres
3	167.5	168		2.13	0.06	1.065	at
4	168	168.5		0.77	0.03	.385	
5	168.5	169		0.56	0.03	.28	0.737% WO_3
6	169	169.5		0.87	0.05	.435	
7	169.5	170		1.06	0.05	.503	
8	170	170.5		0.92	0.03	.46	
9	170.5	171		1.33	0.04	.665	
70	171	171.5		0.21	0.01	.105	
1	171.5	172		0.10	0.02	.05	
2	172	172.5		0.53	0.03	.265	
F 3973	173.5	173		0.53	0.02	.265	
F 3974	190.5	191		0.03	0.01		
5	191	191.5		0.39	0.02		
6	191.5	192		0.07	0.01		
7	192	192.5		2.23	0.05		
8	192.5	193		0.06	0.01		
9	193	193.5		0.04	0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	~~FOOTAGE~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
F 3954	168	163.5	0.5 / 0.52	0.46	0.02	0.23	
5	163.5	164		0.58	0.01	0.29	
6	164	164.5	0.30	0.30	0.01	0.15	
7	164.5	165		0.29	0.01	0.145	
8	165	165.5	1.10	0.46	0.02	0.23	
9	165.5	166		1.74	0.03	0.87	
60	166	166.5	0.15	0.26	0.01	0.13	
1	166.5	167		0.04	0.01	0.02	
2	167	167.5	1.37	0.61	0.02	0.305	10 metres
3	167.5	168		2.13	0.06	0.565	at
4	168	168.5	0.66	0.77	0.03	..385	
5	168.5	169		0.56	0.03	.28	0.737% WO_3
6	169	169.5	0.97	0.87	0.05	.435	
7	169.5	170		1.06	0.05	.503	
8	170	170.5	1.13	0.92	0.03	.46	10m at 0.688% WO_3
9	170.5	171		1.33	0.04	.665	
70	171	171.5	0.15	0.21	0.01	.105	
1	171.5	172		0.10	0.02	..05	G.B.
2	172	172.5	0.53	0.53	0.03	.265	
F 3973	172.5 (172.5?)	173		0.53	0.02	.265	
F 3974	190.5	191	0.21	0.03	0.01		2m at 0.68
5	191	191.5		0.39	0.02		
6	191.5	192	1.15	0.07	0.01		
7	192	192.5		2.23	0.05		
8	192.5	193	0.05	0.06	0.01		
9	193	193.5		0.04	0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	FOOTAGES Metres			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
A 4451	208.25	208.75		0.05	0.02		
2	208.75	209.25	.5	0.04	0.01		
3	209.25	209.75	.5	13.6	0.17		
4	209.75	210	.25 (4.0)	0.77	0.02		
5	210	210.5	1.26	0.89	0.02		
6	210.5	211		1.63	0.03		
7	211	211.5	2.29	1.34	0.02		
8	211.5	212		3.24	0.04		
9	212	212.5	2.07	1.46	0.03		
60	212.5	213		2.68	0.03		
1	213	213.5	1.53	1.56	0.01		
2	213.5	214		1.51	0.01		
3	214	214.5	1.85	1.69	0.02		
4	214.5	215		2.0	0.03		
5	215	215.5	2.43	1.87	0.02		
6	215.5	216		3.0	0.04		38.25 metres at 1.44% WO_3
7	216	216.5	1.87	2.23	0.03		
8	216.5	217		1.52	0.03		
9	217	217.5	1.66	1.0	0.02		
70	217.5	218		1.31	0.03		
1	218	218.5	1.67	1.42	0.02		
2	218.5	219		0.92	0.03		
3	219	219.5	0.87	0.95	0.04		
4	219.5	220		0.79	0.02		
5	220	220.5	0.85	1.0	0.04		
6	220.5	221		0.71	0.03		
7	221	221.5	0.63	0.32	0.02		
8	221.5	222		0.94	0.03		
9	222	222.5	1.34	1.37	0.04		
80	222.5	223		1.31	0.04		
1	223	223.5	1.24	1.21	0.03		
2	223.5	224		1.27	0.04		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	Footages Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4483	224	224.5	1.42	1.65	0.06		
4	224.5	225		1.19	0.03		
5	225	225.5	0.52	0.96	0.03		
6	225.5	226		0.09	0.02		
7	226	226,5	0.06	0.05	0.02		
8	226.5	227		0.07	0.02		
9	227	227.5	0.31	0.27	0.02		
90	227.5	228		0.34	0.02		
1	228	228.5	0.41	0.06	0.02		
2	228.5	229		0.15	0.02		
3	229	229.5	0.60	0.37	0.02		
4	229.5	230		0.83	0.04		
5	230	230.5	0.66	0.42	0.03		
6	230.5	231		0.91	0.04		
7	231	231.5	1.24	1.09	0.08		
8	231.5	232		1.38	0.04		
9	232	232.5	1.17	1.26	0.04		
A4500	232.5	233		1.08	0.03		
F 3902	233	233.5	1.89	0.78	0.02		
3	233.5	234		3.0	0.05		
4	234	234.5	0.70	0.90	0.03		
5	234.5	235		0.49	0.01		
6	235	235.5	1.70	2.14	0.05		
7	235.5	236		1.27	0.04		
8	236	236.5	2.35	3.19	0.05		
9	236.5	237		1.50	0.04		
10	237	237.5	1.55	0.3 1	0.01		
1	237.5	238		2.80	0.04		
2	238	238.5	1.42	1.00	0.03		
3	238.5	239		1.83	0.04		
4	239	239.5	2.58	3.68	0.06		
5	239.5	240		1.49	0.04		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	FOOTAGES From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
F 3916	240	240.5	0.89	1.55	0.05		
7	240.5	241		0.23	0.02		
8	241	241.5	2.33	1.74	0.04		
9	241.5	242		2.92	0.04		
20	242	242.5	1.77	1.76	0.03		
1	242.5	243		1.78	0.03		39m at 1.38%
2	243	243.5	0.72	0.73	0.03		
3	243.5	244		0.72	0.03		
4	244	244.5	0.48	0.74	0.03		
5	244.5	245		0.22	0.02		
6	245	245.5	2.27	1.89	0.04		
7	245.5	246		2.65	0.04		
8	246	246.5	1.11	1.34	0.04		
9	246.5	247		0.87	0.02		
30	247	247.5	0.42	0.66	0.02		
1	247.5	248		0.18	0.01		
2	248	248.5		0.01	0.01		
3	248.5	249		0.01	0.01		
4	249	249.5		0.06	0.01		
5	249.5	250		0.01	0.01		
6	250	250.5	0.21	0.28	0.01		
7	250.5	251		0.13	0.01		
8	251	251.5		0.01	0.01		
9	251.5	252		0.03	0.01		
40	252	252.5		0.06	0.01		
1	252.5	253		0.04	0.01		
2	253	253,5		0.08	0.01		
3	253.5	254		0.18	0.01		
4	254	254.5		0.07	0.01		
5	254.5	255		0.06	0.01		
6	255	255.5		0.05	0.01		
			53.83				

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 402

Logged By: MJD

Sample No.	FOOTAGES Metres			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
F 3947	255.5	256	0.74	1.27	0.04		
8	256	256.5		0.20	0.01		
9	256.5	257	0.36	0.21	0.01		
50	247	257.5		0.50	0.02		
1	257.5	258		0.05	0.01		
2	258	258.5		0.01	0.01		
F 3953	258.5	259		0.04	0.01		

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 402 — Date Surveyed 6.4.71

Total Depth 976' — Depth Surveyed To 970

Casing Depth 395' — Surveyed By PHF MJ

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
1	00	0				33	570	4° 30'	S 82° W
2	1	M				34	590	5°	75°
3	2	M				35	M		
4	3	M				36	M		
						37	M	5° 15'	74°
						38	610	5°	72°
18	#17	310	2° 15'	N 10 E		39	610	5°	73
19	18	310	"	"		40	M		
	19	310	"	"		41	630	5° 15'	74
	20	330	"	S 55 W		42	650	5°	75
	21	350	"	S 68 E		43	670	5° 30'	71
	22	370	2° 30'	—		44	690	6°	66
	23	390	2° 15'	N 25 E		45	710	6°	69
	24	410	2° 15'	N 13 W		46	730	6°	69
	25	430	2° 15'	N 35 W		47	750	6°	71
	26	450	2° 30'	54		48	750	6°	72
	27	450	"	54		49	770	6°	70
	28	470	"	68		50	790	5° 45'	70
	29	490	4° 15'	76		51	810	5° 45'	72
	30	510	5°	80		52	830	5° 45'	71
	31	530	5° 30'	83		53	850	6	72
	32	550	"	82		54	870	6	69

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 402 Date Surveyed 6. 4. 71

Total Depth 976 Depth Surveyed To 970

Casing Depth 395 Surveyed By PHF MJD

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	55	890	6° 15'	S 68 W		77	690	5° 45	S 71 W
	56	910	6° 30'	66		78	670	5° 30	73
	57	930	6 30	68		79	650	"	73
	58	950	7°	72		80	630	5° 15'	74
	59	m	6° 45	71		81	610	"	76
	60	970	"	71		82	590	5°	75
	61	970	"	72		83	570	4° 45'	73
	62	970	"	72		84	570	4° 45'	73
	63	970	"	72		85	m	—	-
	64	950	"	72					
	65	930	6° 30	72					
	66	910	6° 45	71					
	67	890	6° 30'	85?					
	68	870	6°	68		116	0		
	69	850	6°	72					
	70	830	5° 45'	71					
	71	810	5° 45'	74					
	72	790	"	72					
	73	770	5° 30'	71					
	74	750	"	72					
	75	730	"	71					
	76	710	"	71					

REMARKS:-

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 402 — Date Surveyed 10.3.71

Total Depth 568 — Depth Surveyed To 560

Casing Depth 394 — Surveyed By MJD PHF.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
20	1 30	1 30	.9997 / .0262	19.99	19.99	.52	S 59 W	N 10 W	.9848 / .1736	.51	.09	0.51	.09
					6.09								
40	2 00	2	.9994 / .0349	19.98	39.91	.70	N 52 W			.68	.12	1.19	.21
					12.18								
60	2 30	2 30	.9990 / .0436	19.98	59.95	.87	N 19 W			.85	.15	2.04	.36
					18.27								
80	2 30	2 30	.9990 / .0436	19.98	79.93	.87	S 88 W			.85	.15	2.89	.51
					24.36								
100	2 30	2 30	.9990 / .0436	19.98	99.91	.87	S 19 W			.85	.15	3.74	.66
					30.45							1.13	.2
120	2 15	2 15	.9992 / .0393	19.98	119.89	.78	S 10 W			.77	.13	4.51	.79
					36.5								
140	2	2	.9994 / .0349	19.98	139.87	.70	S 54 E			.69	.12	5.20	.91
					42.6								
160	2 15	2 15	.9992 / .0393	19.98	159.85	.78	N 42 E			.77	.13	5.97	1.04
					48.7								
180	2 30	2 30	.9990 / .0436	19.98	179.83	.87	N 22 E			.85	.15	6.82	1.19
					54.8								
200	2 30	2 30	.9990 / .0436	19.98	199.81	.87	N 18 E			.85	.15	7.67	1.34
					60.9							2.33	.41
220	2 15	2 15	.9992 / .0393	19.98	219.79	.78	S 28 W			.77	.13	8.44	1.47
					66.99								
240	2	2	.9994 / .0349	19.98	239.77	.70	N 32 E			.69	.12	9.13	1.59
					73.08								
260	2	2	.9994 / .0349	19.98	259.75	.70	S 31 W			.69	.12	9.82	1.71
					79.17								
280	2 15	2 15	.9992 / .0393	19.98	279.73	.78	N 50 E			.77	.13	10.6	1.84
					85.26								

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 402 Date Surveyed 6. 4. 71

Total Depth 976' Depth Surveyed To 970

Casing Depth 395' Surveyed By PHF MJD

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
310	2° 15	2 15	9992 / 0393	29.98	309.78	1.14	N 10 E			1.15	.20	11.1	2.04
	2° 15				94.4							3.6	.62
330	2° 15	2 15	9992 / 0393	19.98	329.68	.78	S 55 W			.77	.13	12.5	2.17
					100.48								
350	2° 15	2 15	9992 / 0393	19.98	349.66	.78	S 68 E			.77	.13	13.3	2.30
					106.57								
370	2 30	2 30	9990 / 0436	19.98	369.64	.87	S 68 E			.95	.15	14.1	2.45
					112.66								
390	2 15	2 15	9992 / 0393	19.98	389.62	.78	N 25 E			.77	.13	14.9	2.58
					118.75								
410	2 15	2 15	9992 / 0393	19.98	409.60	.78	N 13 W	N 13 W	9744 / 2250	.76	.17	15.7	2.75
					124.8							4.78	.84
430	2 15	2 15	9992 / 0393	19.98	429.58	.78	N 35 W	N 35 W	8192 / 5736	.64	.44	16.3	3.19
					130.9								
450	2 30	2 30	9990 / 0436	19.98	449.56	.87	54	54	5878 / 8090	.51	.70	16.8	3.89
	2 30				137.0								
470	2 30	2 30	9990 / 0436	19.98	469.54	.87	68	68	3746 / 9272	.32	.80	17.1	4.69
					143.1								
490	4 15	4 15	9973 / 0741	19.94	489.48	1.48	76	76	2419 / 9703	.36	1.43	17.5	6.12
					149.2		?						
510	5	5	9962 / 0872	19.92	509.40	1.74	80	80	1736 / 9848	.30	1.71	17.8	7.83
					155.26							5.4	2.38
530	5 30	5 30	9954 / 0958	19.90	529.30	1.91	83	83	1219 / 9925	.23	1.89	18.0	9.72
					161.3								
550	5 30	5 30	9954 / 0958	19.90	549.20	1.91	82	82	1342 / 9903	.26	1.99	18.3	11.61
					167.4						S		
570	4 30	4 37	9967 / 0805	19.93	569.13	1.61	S 82 W	S 77 W	2250 / 9744	.36	1.56	17.9	13.17
	4 45				173.5		73						

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 402 Date Surveyed 6. 4. 71

Total Depth 976 Depth Surveyed To 970

Casing Depth 395 Surveyed By PHF MJD

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
590	5	5	9962 / 0872	19.92	589.05 / 179.5	1.74	S 15 W	S 15 W	2589 / 9659	.45	1.68	17.49	114.85
	5						75						
610	5	5 07	9960 / 0895	19.92	608.97 / 185.6	1.79	72	74	2756 / 9613	.49	1.72	17.0 / 5.18	116.51 / 5.05
	5 15				628.88		76						
630	5 15	5 15	9958 / 0915	19.91	191.7	1.83	74	74	2756 / 9613	.50	1.76	16.5	118.33
	5 15				648.79		74						
650	5	5 15	9958 / 0915	19.91	197.7	1.83	75	74	2756 / 9613	.50	1.76	16.0	120.09
	5 30				668.69		73						
670	5 30	5 30	9954 / 0958	19.90	203.8	1.91	71	72	3090 / 9511	.59	1.81	15.41	121.9
	5 30				688.58		73						
690	6	5 52	9947 / 1025	19.89	209.9	2.05	66	68	3746 / 9272	.71	1.90	14.64	123.8
	5 45				708.48		71						
710	6	5 45	9950 / 1002	19.90	215.9	2.00	69	70	3420 / 9397	.68	1.88	13.96 / 4.2	125.7 / 7.8
	5 30				728.38		71						
730	6	5 45	9950 / 1002	19.90	222.0	2.00	69	70	3420 / 9397	.68	1.88	13.28	127.5
	5 30						71						
750	6	5 45	9950 / 1002	19.90	748.28 / 228.07	2.00	71	71	3256 / 9455	.65	1.89	12.63	129.45
	5 30						72						
770	6	5 45	9950 / 1002	19.90	768.18 / 234.1	2.00	70	71	3256 / 9455	.65	1.89	11.98	131.3
	5 30						71						
790	5 45	5 45	9950 / 1002	19.90	788.08 / 240.2	2.00	70	71	3256 / 9455	.65	1.89	11.33	133.23
	5 45						72						
810	5 45	5 45	9950 / 1002	19.90	807.98 / 246.27	2.00	72	73	2924 / 9563	.58	1.91	10.75 / 3.27	135.1 / 10.7
	5 45						74						
830	5 45	5 45	9950 / 1002	19.90	827.88 / 252.3	2.00	71	71	3256 / 9455	.65	1.89	10.10	137.0
	5 45						71						
850	6	6	9945 / 1045	19.89	847.77 / 258.4	2.09	72	72	3090 / 9511	.64	1.99	9.46	139.0
	6						72						

DIAMOND DRILL HOLE SURVEY

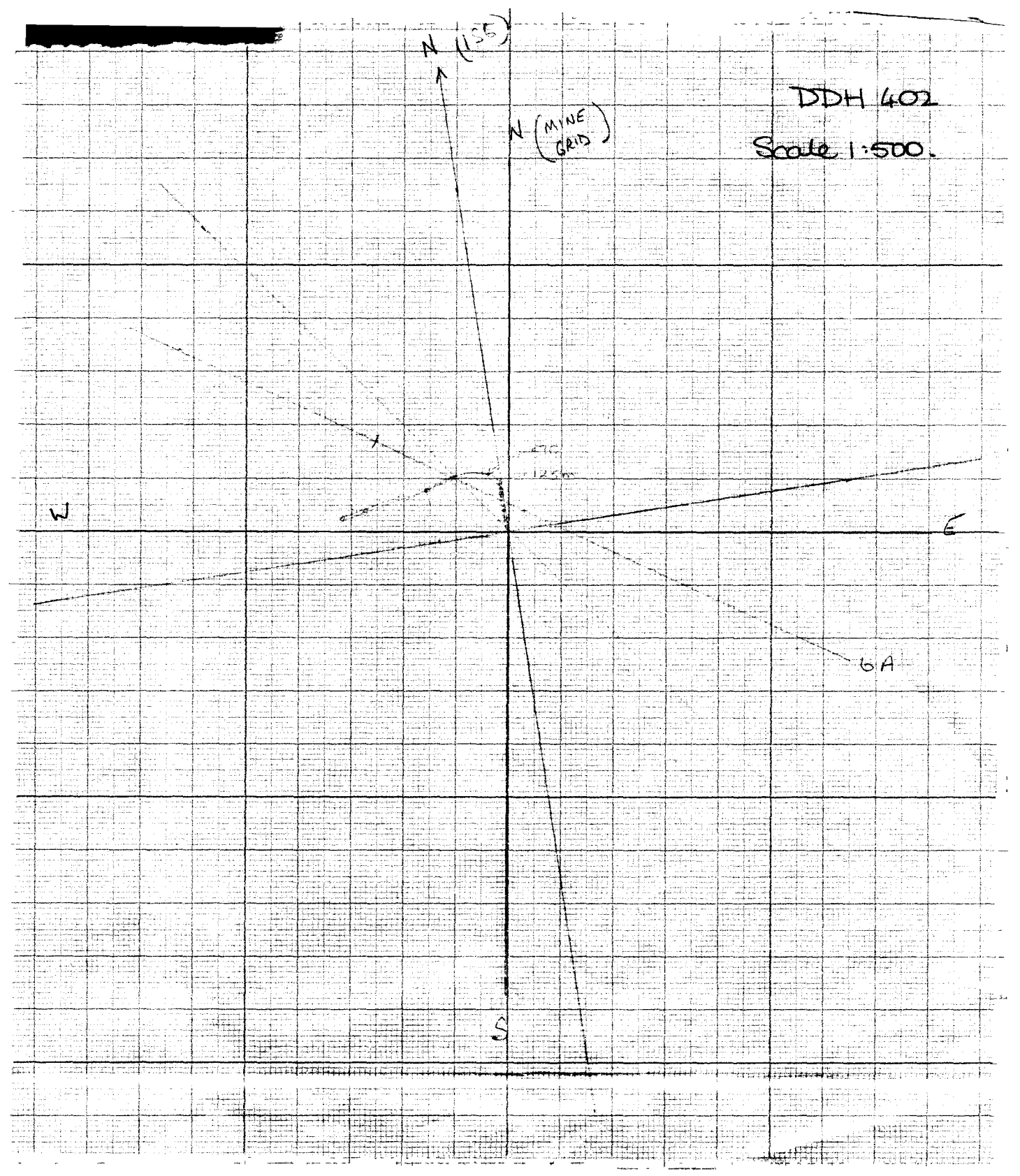
EASTMAN - KODAK MULTISHOT CAMERA

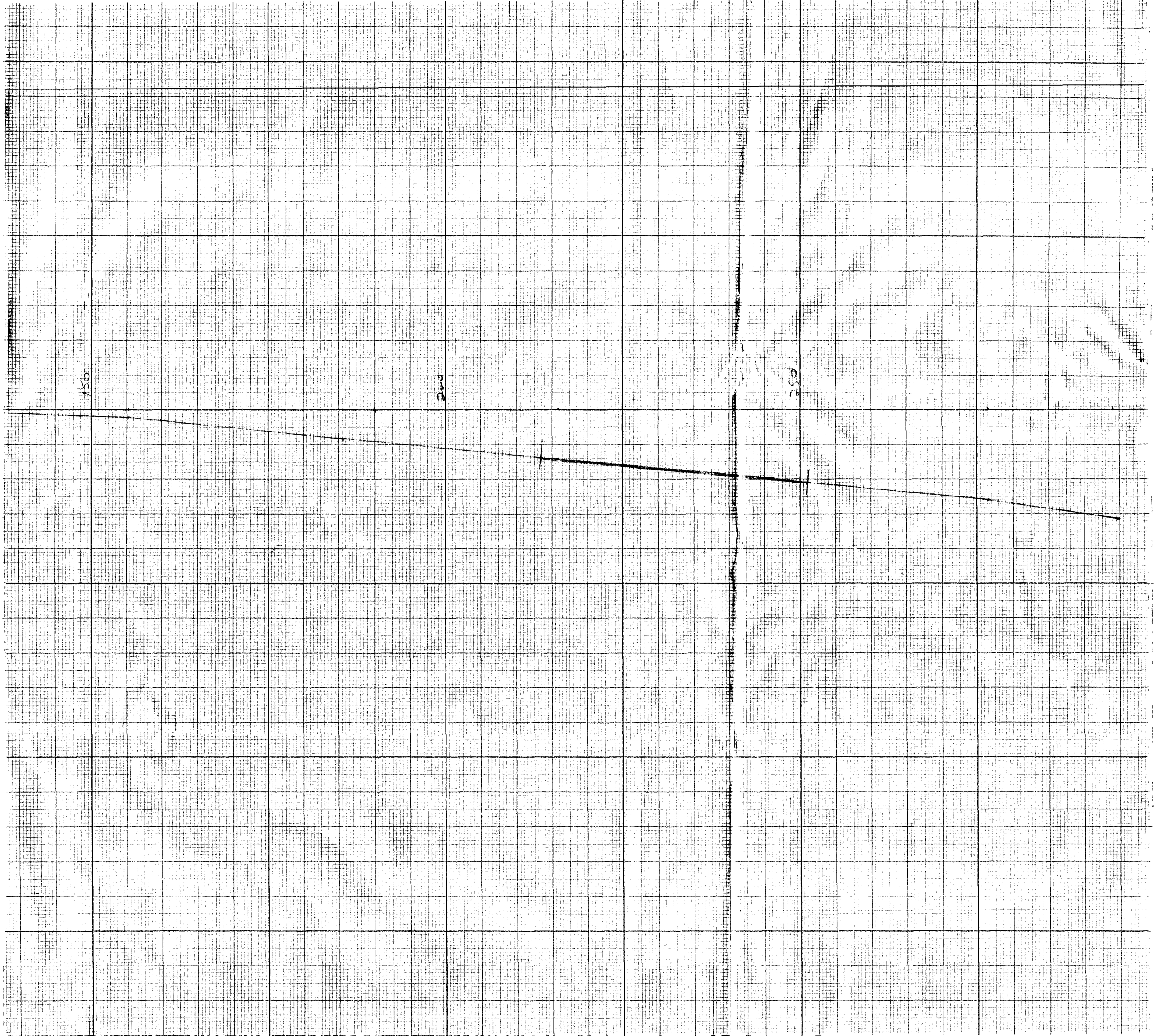
D.D.H. No. 402 Date Surveyed 6. 4. 71

Total Depth 976 Depth Surveyed To 970

Casing Depth 395 Surveyed By PHF MJD.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
870	6	6	9945/1045	19.89	867.68 / 264.4	2.09	S 69 W / 68	S 68W	3746/9272	.78	1.94	8.68	40.9
890	6 115 / 6 30	6 22	9938/1105	19.87	887.53 / 270.5 / 907.39	2.21	68 / 85	S 68 W	3746/9272	.82	2.05	7.86	43.0
910	6 30 / 6 145	6 37	9934/1155	19.86	276.59	2.31	66 / 71	68	3746/9272	.86	2.14	7.0 / 2.1	45.1 / 13.7
930	6 130 / 6 30	6 30	9936/1132	19.87	927.26 / 282.6	2.26	69 / 72	69	3584/9336	.81	2.11	6.19	47.2
950	7 / 6 145	6 52	9928/1197	19.85	947.11 / 288.67	2.39	72 / 72	72	3090/9511	.74	2.27	5.45	49.5
970	6 145 / 6 145	6 45	9931/1175	19.86	966.97 / 294.7	2.35	71 / 71	71	3256/9455	.76	2.22	4.69 / 1.4	51.7 / 15.7


N (135)
N (MINE GRID)
DDH 402
Scale 1:500.
W
E
S
6A


150
200
250

E — W SECTION ON T. S. G.

DDH 402

Scale 1:500.

W

E

401

N° 2 OREBODY

563994·5 N . 220294·8 E

+ 5·03 metres.

27 - 11 · 70

12 · 3 · 71

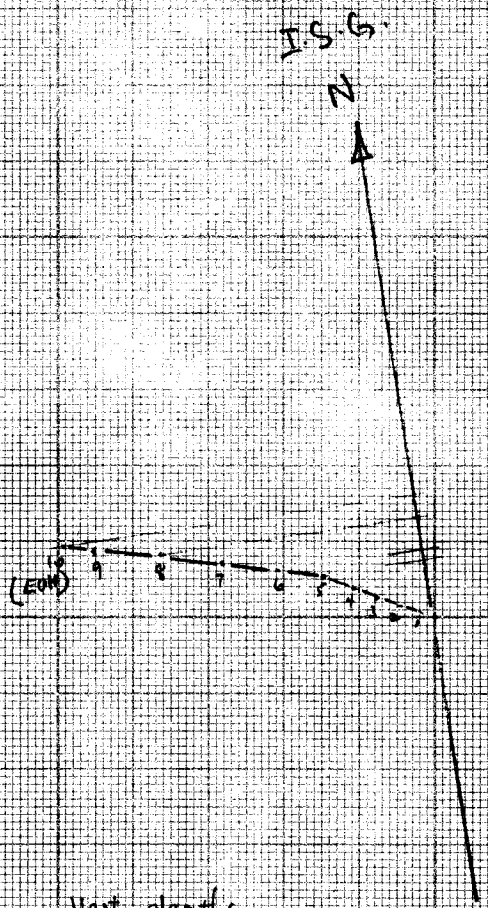
289·56 metres.

12 · 3 · 71.

P. H. Fee.

Inclination. Vertical

DDH. 401



Vert. depths.

1	30.46 m
2	60.90
3	91.35
4	121.78
5	152.17
6	182.5
7	212.76
8	242.97
9	273.14
(EOH) 10	288.22 m.

Core [illegible] recoveries

24.1m	24.7m	0.6m	0.5m
24.7m	25.6m	0.9m	0.7m
25.6m	26,8m	12m	9.8m
26.8m	27.4m	0.6m	-
27.4m	29.0m	1.6m	-
29.0m	31.5m		
31.5m	32.2m	0.7m	0.4m
34.4m	35.4m	1.0m	0.4m
50.7m	52.4m	1.7m	1.5m
52.4m	52.9m	0.5m	0.1m
54.4m	55.0m	0.6m	0.4m
82.3m	84.9m	2.6m	1.6m
92.2m	100.6m	8.2m	5.2m

No Core
0-24.1 metres.

Predrilled to 24.1 metres.

VOLCANICS
24.1 — 162.7 metres

Volcanics Fine to medium grained green often porphyritic rock containing large mica porphyroblasts

Abundant core loss.

Rock very well jointed, joints being chlorite and clay coated - open. 45° 0-10°

Rock highly fractured and from 33.6 to 34 m. 15-20° 60

breccia type shear zone with little core loss.

From 29m to 33m joints shallow Below 33.8 m 0°, 15°, 40

rock still porphyritic.

Joints in the main chlorite with minor calcite 75°, 55°, 20°
and clay.

From 44.3m to 45m breccia of fine grained volcanics with clorite and calcite filling 0-30°

Rock less porphyritic and more even grained below 99m 20°, 40

separate words.

From 55m onwards the rock is highly jointed and fractured. 55° to 60

Rock appears to exhibit fine banding. 20°, 30°, 70°

From 68 to 85m the rock becomes extremely fine grained and competent with few joints.

Calcite veins 68.9m at 50°

Calcite veins 68.5m at 50°

Numerous quartz veins 70.8m at 50°

From 76.8m to 82.3m the rock is fine grained and green but not porphyritic.

Numerous quartz veins cut the rock.

From 82.3m to 84.9m the rock becomes medium grained and porphyritic.

Joints variable with calcite and chlorite filling 10° to 50

From 84.9m to 113m the rock becomes highly broken and well jointed. 10° 30° 60°

Joints tend to be consistent 50°

From 92.2 to 100.6 much core loss

Core highly broken with chlorite predominately as joint and fracture filling.

Breccia from 94m to 96m.

Due to high to intense fracture difficult to locate positions in hole.

From 106.4m to 109m Breccia

From 111m to 111.3m Breccia

Core less broken below 113m

From 113m to 119 m rock becomes highly porphyritic

GEOPEKO LIMITED, KING ISLAND.

DIAMOND DR

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	ASSAYS
	119.32	120.0	0.68	0.68	
	120	124.1	4.1	1.45	
	124.1	137.95	13.85	13.85	
	137.95	145.69	7.74	7.74	
	145.69	162.7	17.01	17.01	
	162.7	174.72	12.02	12.02	

Shift these up 4 lines each

leave the 3rd line where it is.

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
	and fine to medium grained	
	At 119 to 119.7 breccia calcite filled.	10° 30° 60°
	Fine grained grey-green, chlorite rich rock, mottled appearance	
	Thoroughly brecciated material. Clay abundant.	
	Fine grained grey-green rock very chlorite rich. Much evidence for shear in this section of core. Rock is of a highly fragmented nature - most fragments aligned with long axes parallel to shear planes. Streaked out chloritic bands dominate the texture. Inclusions of accretionary quartz with sulphide cores occur frequently. Thin veins of pyrite occur both along and transgressing the shear planes. Large quartzo-felspathic porphyroblasts with highly crenulated and diffuse margins occur noteably at 129, and 129.6m. Rock is very competent with no core loss. Joints well developed, some quartz filled, occasionally pyrite coated- usually parallel to shear.	
	A fine grained blue-grey rock much less fragmental than previous section. Streaked out chloritic bands still abundant. Silica rich bands up to 20 cm thick occur - boundaries diffuse. Joint set remains parallel to shear and irregular fracture much more dominant. Small breccia zone at 140.9 - 141.1 metres.	
	Similar rock type to above, now highly fractured but becoming more competent after 151m. Some weathering evident along shear planes, still dipping at 60°. Accretionary quartz voids frequent and rock texture is porphyroid in places. Minor scheelite at 150.9 - 151m and 152 - 152.4m. Zones of high fracture at 153.7 - 154.5, 155-156, 156.8-160m but core broken only along joints.	
BIOTITE HORNFELS 1621 — 1472	Homogenous, fine grained, biotite hornfels with occasional streaked pyroxene-rich bands (diffuse boundaries) Joint planes well	

GEOPEKO LIMITED, KING ISLAND. DIAMOND DR

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	WO_3 % ~~WO3~~	Mo % ASSAYS ~~Mo~~
4374	173.72	174.22	0.5	0.5	0.05	0.01
4373	174.22	174.72	0.5	0.5	0.05	0.01
4372	174.72	175.22	0.5	~~4.0~~ 0.4	0.20	0.01
4371	175.22	175.72	0.5	0.5	0.08	0.01
4351	175.72	176.22	0.5	0.5	0.10	0.01
4352	176.22	176.72	0.5	0.5	0.10	0.01
4353	176.72	177.22	0.5	0.5	0.31	0.01
4354	177.22	177.72	0.5	0.5	0.07	0.01
4355	177.72	178.22	0.5	0.5	0.09	0.01
4356	178.22	178.72	0.5	0.5	0.08	0.01
4357	178.72	179.0	0.28	0.28	0.51	0.01
4358	179.0	179.5	0.5	0.5	1.75	0.04
4359	179.5	180.0	0.5	0.5	1.68	0.03
4360	180.0	180.5	0.5	0.5	2.72	0.04
4361	180.5	181.0	015	0.5	2.25	0.03
4362	181.0	181.5	0.5	0.5	2.70	0.03
4363	181.5	182.0	0.5	0.5	2.08	0.03
4364	182.0	182.5	0.5	0.5	2.30	0.05
4365	182.5	183.0	0.5	0.5	2.16	0.05
4366	183.0	183.5	0.5	0.5	1.30	0.04
4367	183.5	184.0	0.5	0.5	2.50	0.06
4368	184.0	184.5	0.5	0.5	2.62	0.07
4369	184.5	185.0	0.5	0.5	2.12	0.06
4370	185.0	185.5	0.5	0.5	1.15	0.03
4375	185.5	186.0	0.5	0.5	1.48	0.03
4376	186.0	186.5	0.5	0.5	2.30	0.06
4377	186.5	187.0	0.5	0.5	1.37	0.04
4378	187.0	187.5	0.5	0.5	0.94	0.03
4379	187.5	188.0	0.5	0.5	0.73	0.03
4380	188.0	188.5	0.5	0.5	0.76	0.03
4381	188.5	189.0	0.5	0.5	1.18	0.04
4382	189.0	189.5	0.5	0.5	1.54	0.04
4383	189.5	190.0	0.5	0.5	1.53	0.04
4384	190.0	190.5	0.5	0.5	1.76	0.05
4385	190.5	191.0	0.5	0.5	1.13	0.03
4386	191.0	191.5	0.5	0.5	5.60	0.12
4387	191.5	192.0	0.5	0.5	11.50	0.23
4388	192.0	192.5	0.5	0.5	2.18	0.03
4389	192.5	193.0	0.5	0.5	1.06	0.03
4390	193.0	193.5	0.5	0.5	1.17	0.03
4391	193.5	194.0	0.5	0.5	0.81	0.03
4392	194.0	194.5	0.5	0.5	0.29	0.01

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
	~~developed. Irregular fracture slight Aplite veins at 168.65 and 169.95 metres.~~	
PYROXENE-GARNET-HORNFELS 114.12 ? 118.12 metres	~~Boundary with preceeding unit is gradational - distinct, enrichment in pyroxene.~~ Grossularite ~~ovoids appear at 175.5m. Ovoids~~ of calcite and quartz appear at 176.3m. Joints poorly developed and irregular, fracture predominates.	
GARNET SKARN 118.12 – 1960 metres	Skarn Medium grained andradite ~~skarn~~, rich in very fine ~~disseminated scheelite. Calcite, quartz and~~ pyroxene abundant. Rock very competent particularly after 190m. Joints not well developed and fracture is predominantly irregular.	

GEORGE LIMITED, KING ISLAND.

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	WO_3 %	Mo %
4393	194.5	195.0	0.5	0.5	1.18	0.02
4394	195.0	195.5	0.5	0.5	1.24	0.02
4395	195.5	196.0	0.5	0.5	0.73	0.02
4396	196.0	196.5	0.5	0.5	0.26	0.01
4397	196.5	197.0	0.5	0.5	0.10	0.02
4398	197.0	197.5	0.5	0.5	0.12	0.02
	197.5	198.0	0.5	0.5		
	198.0	198.56	0.56	0.28		
	198.56	200.5	1.94	1.94		
	200.25	[illegible]	5.25	5.25		
	205.25	207.7	2.45	2.45		
	207.7	208.2				
	208.2	211.0	1.8	1.8		
4399	211.0	211.5	0.5	0.5	0.05	0.01
4400	211.5	212.0	0.5	0.5	0.04	0.01
4401	212.0	212.5	0.5	0.5	1.15	0.03
4402	212.5	213.0	0.5	0.5	1.24	0.04
4432	213.0	213.5	0.5	0.5	0.91	0.03
4403	213.5	214.0	0.5	0.5	0.96	0.04
4404	214.0	214.5	0.5	0.5	0.29	0.01
4405	214.5	215.0	0.5	0.5	0.81	0.03
4406	215.0	215.5	0.5	0.5	0.46	0.02
4407	215.5	216.0	0.5	0.5	1.20	0.04
4408	216.0	216.5	0.5	0.5	1.06	0.03
4409	216.5	217.0	0.5	0.5	0.28	0.01
4410	217.0	217.5	0.5	0.5	0.30	0.01

GEOLOGICAL DESCRIPTION

GARNET SKARN CONT.

HORNFELS
CALCITE
196.0 — 200.25 metres.

Pyroxene rich marble, well jointed, joints frequently chlorite crated very minor scheelite.

Fault largely brecciated marble in a loose clay rich matrix. Abundant chlorite

Calcite Hornfels Impure banded marble, highly fractured.

BANDED BIOTITE PYROXENE CALCITE HORNFELS

Clearly banded hornfels with occasional layers rich in grossularite. Well jointed usually along bedding direction.

BANDED FOOTWALL BEDS
200.25 — 23[illegible]

Garnet Hornfels Medium grained garnet skarn somewhat banded. Pyroxene layers at frequent intervals. Minor disseminated scheelite, with calcite and quartz.

Fault Core highly fractured slickensided fragments coated with chlorite.

Banded Ch/Ph/Gh with occasional thin biotite hornfels bands. Banding clearly defined at 55° to core axis. Fracture/jointing usually along biotite planes

Banded Gh/Bh/Ph Garnet bands a medium grained andradite skarn. Banding clearly defined by the biotite Hf and pyroxene Hf bands. Disseminated scheelite mineralisation in varying degrees throughout the skarns. No coarse scheelite observed. Bedding consistent at 55°.
Fault zone at 227.1 - 227.4m. Rock brecciated abundant fragments of biotite hornfels.

SAMPLE No.	DISTANCE FROM	DISTANCE TO	WIDTH OF SAMPLE	CORRECTED WIDTH	WO_3 %	MoO_2 %
4411	217.5	218.0	0.5	0.5	0.07	0.01
4412	218.0	218.5	0.5	0.5	0.30	0.03
4413	218.5	219.0	0.5	0.5	0.10	0.01
4414	219.0	219.5	0.5	0.5	0.23	0.01
4415	219.5	220.0	0.5	0.5	0.53	0.01
4416	220.0	220.5	0.5	0.5	0.38	0.02
4417	220.5	221.0	0.5	0.5	0.47	0.01
4418	221.0	221.5	0.5	0.5	0.46	0.02
4419	221.5	222.0	0.5	0.5	0.41	0.02
4420	222.0	222.5	0.5	0.5	0.32	0.01
4421	222.5	223.0	0.5	0.5	0.96	0.05
4422	223.0	223.5	0.5	0.5	0.38	0.02
4423	223.5	224.0	0.5	0.5	0.98	0.04
4424	224.0	224.5	0.5	0.5	0.15	0.01
4425	224.5	225.0	0.5	0.5	0.38	0.02
4426	225.0	225.5	0.5	0.5	1.28	0.05
4427	225.5	226.0	0.5	0.5	1.48	0.06
4428	226.0	226.5	0.5	0.5	0.86	0.03
4429	226.5	227.0	0.5	0.5	1.12	0.03
4430	227.0	227.5	0.5	0.28	0.51	0.02
4431	227.5	228.0	0.5	0.40	0.04	0.01
4433	228.0	228.5	0.5	0.46	0.05	0.01
4434	228.5	229.0	[illegible]		0.40	0.02
4435	229.0	229.5			1.60	0.07
4436	229.5	230.0			0.10	0.01
4437	230.0	230.5			0.18	0.01
4438	230.5	231.0	0.5	0.46	0102	0.01
4439	231.0	231.5	0.5	0.46	0.02	0.01
	231.5	235	33.5	3.5		
	235	239	4.0	4.0		
	239	242.46	3.46	3.46		
	242.46	248.45	5.99	5.99		
	248.45	249.10	0.65	0.65		

GEOLOGICAL DESCRIPTION

VOLCANICS
235.0 – 242.46 metres.

Medium grained mottled, greenish-grey rock. Chloritic. Highly competent. Joints usually quartz filled. Fracture along these is rare.

~~Volcanics~~ Rock becoming more biotite rich. Joints now chlorite coated. Fracture incidence markedly increased.

BANDED BIOTITE? PYROXNE HORNFELS
242.46 – 248.45

Clearly banded rock with rare garnetiferous horizons (unmineralised). Joints chlorite coated, and well developed both along and across the bedding.

Aplite Medium grained, potassium feldspar rich rock, pink.

GEOPEKO LIMITED, KING ISLAND.

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RECD	ASSAY
	~~249.10~~	~~264.3~~	~~13.2~~	~~13.2~~	
	264.3	289.56	25.26	25.26	

DRILL HOLE NO. 401

GEOLOGICAL DESCRIPTION

Banded ~~Bh/Ph~~ cont, Some garnet rich bands. 15 cm. skarn at 255.2 mineralised with disseminated scheelite and coarse crystals. Core highly fractured along joints - irregular fracture rare. Small shear zones occur at 255.85 - 258.90, 259.28 - 260.1, and 263.45 - 263.5.

GRANITE

264.3m — E.O.H.

~~Granitex~~ Medium grained, ~~leucocratic~~ leucocratic, pink granite. Distinct mottled texture, very rich in orthoclase felspar.

END OF HOLE 289.56 m.

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 401

Logged By: PHF

	Sample No.	~~FOOTAGES~~ Metres			ASSAYS		L X A	REMARKS
		From	To	Length	WO_3	Mo		
	A 4351	175.5	176.22	0.10 approx	0.10	0.01		
	2	176.22	176.72		0.10	0.01		
	3	176.72	177.22	0.19	0.31	0.01		
	4	177.22	177.72		0.07	0.01		
	5	177.72	178.22		0.09	0.01		
	6	178.22	178.72	.20	0.08	0.01		
	7	178.72	179	.28	0.51	0.01		
	8	179	179.5	.5 1.71	1.75	0.04		
	9	179.5	180	.5	1.68	0.03		
	60	180	18015	.5 2.48	2.72	0.04		
	1	180.5	181		2.25	0.03		
	2	181	181.5	2.39	2.70	0.03		
	3	181.5	182		2.08	0.03		
	4	182	182.5	2.23	2.30	0.05		
	5	182.5	183		2.16	0.05		
	6	183	183.5	1.90	1.30	0.04		
	7	183.5	184		2,50	0.06		
	8	184	184.5	2.37	2.62	0.07		
	9	184.5	185		2.12	0.06		17.8 metres at 1.898% WO_3
	70	185	185.5		1.15	0.03		
	1	175.22	174.72	out of order	0.08	0.01		
	2	174.72	175.22		0.20	0.01		
	3	174.22	174.72		0.05	0.01		17.0 m at 1.726% WO_3
	4	173.72	174.22		0.05	0.01		
	5	185.5	186	1.32	1.48	0.03		
	6	186	186.5	1.83	2.30	0.06		
	7	186.5	187		1.37	0.04		
	8	187	187.5	0.83	0.94	0.03		
	9	187.5	188		0.73	0.03		
	80	188	188.5	0.97	0.76	0.03		
	1	188.5	189		1.18	0.04		
	2	189	189.5	1.54	1.54	0.04		
	3	189.5	190		1.53	0.04		
	4	190	190.5	1.45	1.76	0.05		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 801

Logged By: PHE

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4385	190.5	191		1.13	0.03		
6	191	191.5	4.00	5.6	0.12		
7	191.5	192		11.5	0.23		
8	192	192.5	1.62	2.18	0.03		
9	192.5	193		1.06	0.03		
90	193	193.5	0.99	1.17	0.03		
1	193.5	194		0.81	0.03		
2	194	194.5	0.74	0.29	0.01		
3	194.5	195		1.18	0.02		
4	195	195.5	0.79	1.24	0.02		
5	195.59	196		0.73	0.02		
6	196	196.5	0.18 (29.35)	0.26	0.01		
7	196.5	197		0.10	0.02		
8	197	197.5		0.12	0.02		
9	211	211.5	0.04	0.05	0.01		
A 4400	211.5	212		0.04	0.01		
1	212	212.5	1.20	1.15	0.03		
2	212.5	213		1.24	0.04		
3	213 (213.5)	214	0.93	0.96 (0.91)	0.04 (0.03)		
4	214	214.5	0.55	0.29	0.01		
5	214.5	215		0.81	0.03		
6	215	215.5	0.83	0.46	0.02		
7	215.5	216		1.20	0.04		
8	216	216.5	0.67	1.06	0.03		17.5 ~~15.5~~ metres at ~~0.602%~~ WO_3 0.646
9	216.5	217		0.28	0.01		
10	217	217.5	0.19	0.30	0.01		
1	217.5	218		0.07	0.01		
2	218	218.5	0.45	0.80	0.03		
3	218.5	219		0.10	0.01		
4	219	219.5	0.38	0.23	0.01		
5	219.5	220		0.53	0.01		
6	220	220.5	0.43	0.38	0.02		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 401

Logged By: PHF

Sample No.	~~FOOTAGES~~ Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4417	220.5	221		0.47	0.01		
8	221	221.5	0.93	0.46	0.02		
9	221.5	222		0.41	0.02		
20	222	222.5	0.64	0.632	0.01		18 m at 0.632% WO_3
1	222.5	223		0.96	0.05		
2	223	223.5	0.64	0.38	0.02		
3	223.5	224		0.98	0.04		
4	224	224.5	0.27	0.15	0.01		
5	224.5	225		0.38	0.02		
6	225	225.5	1.37	1.28	0.05		
7	225.5	226		1.48	0.06		
8	226	226.5	0.99	0.96	0.03		
9	226.5	227		1.12	0.03		
30	227	227.5	0.28	0.51	0.02		
1	227.5	228		0.04	0.01		
~~2~~	~~213~~	~~213.5~~	-	~~0.91~~	~~0.03~~		
3	228	228.5	0.23	0.05	0.01		
4	228.5	229		0.40	0.02		
5	229	229.5	0.85	1.60	0.07		
6	229.5	230		0.10	0.01		
7	230	230.5	11.38 0.10	0.18	0.01		
8	230.5	231		0.02	0.01		
A 4439	231	231.5		0.02	0.01		

CEDESKO LIMITED, KING ISLAND. DIAMOND DR

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	ASSAYS WO. %	ASSAYS M. %
70	171.0	171.5	0.5		0.21	0.01
1	171.5	172.0	0.5		0.10	0.02
2	172.0	172.5	0.5		0.55	0.03
E.8973	172.5	173.0	0.5		0.53	0.02
	173.0	192.0	19.0			
	192.0	194.0	2.0			
	194.0	209.0	15.0			
A4451	208.25	208.75	0.5		0.05	0.02
2	208.75	209.25	0.5		0.04	0.01
3	209.25	209.75	0.5		13.6	0.17
4	209.75	210.25	0.5		0.77	0.02
5	210.0	210.5	0.5		0.89	0.02
6	210.5	211.0	0.5		1.63	0.05
7	211.0	211.5	0.5		1.34	0.02
8	211.5	212.0	0.5		3.24	0.04
9	212.0	212.5	0.5		1.46	0.03
80	212.5	213.0	0.5		2.68	0.03
1	213.0	213.5	0.5		1.58	0.01
2	213.5	214.0	0.5		1.51	0.01
3	214.0	214.5	0.5		1.65	0.02
4	214.5	215.0	0.5		2.0	0.03
5	215.0	215.5	0.5		8	0.0
6	215.5	216.0	0.5		3.6	0.04
7	216.0	216.5	0.5		2.23	0.03
8	216.5	217.0	0.5			0.0
9	217.0	217.5	0.5			0.0
90		218.0	0.5			
1		218.5	0.5			

SHEET No. [illegible]

DRILL HOLE No. [illegible]

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
MARBLE 173.0-192.0	Fine to medium grained grey competent marble. Some banding at 15, 45 and 60°. Minor calcite veining.	15, 45, 60°
ACTINOLITE DIOPSIDE HORNFELS 192.0-194.0	Olive green, fragmental rock, some carbonate veining at 60° also some chlorite filled veins.	
BIOTITE/PYROXENE HORNFELS 194.0-209.0 m	Interbedded biotite and pyroxene hornfels with occasional bands of a very siliceous green material. Banding at 50, 60°. Abundant evidence of flow shearing, often fragmental with fragments contorted in the direction of the shear. Some carbonate veining 204.5m. Breccia 50 cm.	50° 60°
PYROXENE/GARNET HORNFELS 209.0-210.5m	A fine grained green to black rock with occasional ovoides of calcite. Finely disseminated scheelite. Pgh grades into garnet skarn at 210.5 m approx.	
GARNET SKARN 210.5-225.5m	Medium grained brown white and occasionally green rock. Generally a competent rock with few fractures and joints. Any joints are usually tight and chlorite or calcite filled. Rich in finely disseminated scheelite.	

GEOPEKO LIMITED, KING ISLAND.

DIAMON

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	ASSAYS WO3%	ASSAYS Mo%
2	218.5	219.0	0.5		0.92	0.03
3	219.0	219.5	0.5		0.95	0.04
4	219.5	220.0	0.5		0.79	0.02
5	220.0	220.5	0.5		1.0	0.04
6	220.5	221.0	0.5		0.71	0.03
7	221.0	221.5	0.5		0.32	0.02
8	221.5	222.0	0.5		0.94	0.03
9	222.0	222.5	0.5		1.35	0.04
80	222.5	223.0	0.5		1.36	0.04
1	223.0	223.5	0.5		1.21	0.03
2	223.5	224.0	0.5		1.25	0.04
3	224.0	224.5	0.5		1.65	0.06
4	224.5	225.0	0.5		1.10	0.03
A4486	225.0	225.5	0.5		0.94	0.03
6	225.5	226.0	0.5		0.09	0.02
7	226.0	226.5	0.5		0.05	0.02
8	226.5	227.0	0.5		0.07	0.02
9	227.0	227.5	0.5		0.2	0.02
90	227.5	228.0	0.5		0.3	0.02
1	228.0	228.5	0.5		0.0	0.02
2	228.5	229.0	0.5		0.1	0.02
3	229.0	229.5	0.5		0.3	0.02
4	229.5	230.0	0.5		0.8	0.04
5	230.0	230.5	0.5		0.4	0.03
6	230.5	231.0	0.5		0.9	0.04
7	231.0	231.5	0.5		1.0	0.08
8	231.5	232.0	0.5		1.3	0.04
9	232.0	232.5	0.5		1.2	0.04
A4500	232.5	233.0	0.5		1.03	0.03
F3902	233.0	233.5	0.5		0.7	0.02
3	233.5	234.0	0.5		3.0	0.05
4	234.0	234.5	0.5		0.9	0.03
5	234.5	235.0	0.5		0.49	0.01
6	235.0	235.5	0.5		2.14	0.05
7	235.5	236.0	0.5		1.27	0.04
8	236.0	236.5	0.5		2.13	0.05
9	236.5	237.0	0.5		1.50	0.04
10	237.0	237.5	0.5		0.31	0.01
1	237.5	238.0	0.5		2.80	0.04
2	238.0	238.5	0.5		1.00	0.03

SHEET No. ..4.. of...5. (0)

ONE DRILL LOG

DRILL HOLE No. 402

UNIT	GEOLOGICAL DESCRIPTION	FRACTUR
BANDED BIOTITE PYROXENE HORNFELS 225.5-227.0m	~~Banded greenish balck rock. Fine to medium grained with bedding at 40-45°~~	~~40-45~~
GARNET SKARN 227.0 247.0m	~~Garnet skarn as above~~	
BANDED BIOTITE PYROXENE CALCITE HORNFELS 247.0-259.0m	Banded footwal beds. Banding at 4 -50° Generally a competent rock with ma or fracturing being along bedding plans. A medium to fine grained green brown and wh te rock with bands of grossularite granite garnets well developed. Minor very finely disseminated.	

GEOPEKO LIMITED, KING ISLAND. DIAMOND DR

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D.	ASSAYS	
3	238.5	239.0	0.5		1.83	0.04
4	239.0	239.5	0.5		3.68	0.06
5	239.5	240.0	0.5		1.49	0.04
6	240.0	240.5	0.5		1.55	0.05
7	240.5	241.0	0.5		0.23	0.02
8	241.0	241.5	0.5		1.74	0.04
9	241.5	242.0	0.5		2.02	0.04
20	242.0	242.5	0.5		1.76	0.03
1	242.5	243.0	0.5		1.78	0.03
2	243.0	243.5	0.5		0.73	0.03
F3923	243.5	244.0	0.5		0.72	0.03
4	244.0	244.5	0.5		0.74	0.03
5	244.5	245.0	0.5		0.22	0.02
6	245.0	245.5	0.5		1.89	0.04
7	245.5	246.0	0.5		2.65	0.04
8	246.0	246.5	0.5		1.34	0.04
9	246.5	247.0	0.5		0.87	0.02
30	247.0	247.5	0.5		0.66	0.02
1	247.5	24800	0.5		0.18	0.01
2	248.0	248.5	0.5		0.01	0.01
3	248.5	249.0	0.5		0.01	0.01
5	249.0	249.5	0.5		0.01	0.01
6	249.5	250.0	0.5		0.28	0.01
7	250.0	250.5	0.5		0.13	0.01
8	250.5	251.0	0.5		0.01	0.01
9	251.0	252.5	0.5		0.03	0.01
40	251.5	252.0	0.5		0.06	0.01
1	252.0	252.5	0.5		0.04	0.01
2	252.5	253.0	0.5		0.08	0.01
3	253.0	253.5	0.5		0.18	0.01
4	253.5	254.0	0.5		0.07	0.01
5	254.0	254.5	0.5		0.06	0.01
6	255.0	255.5	0.5		0.05	0.01
7	255.5	256.0	0.5		1.27	0.04
8	256.0	256.5	0.5		0.20	0.03
9	256.5	257.0	0.5		0.21	0.01
50	257.0	257.5	0.5		0.50	0.02
1	257.5	258.0	0.5		0.05	0.01
2	258.0	258.5	0.5		0.01	0.01
F3953	258.5	259.0	0.5		0.04	0.01

DRILL LOG

DRILL HOLE No. 102

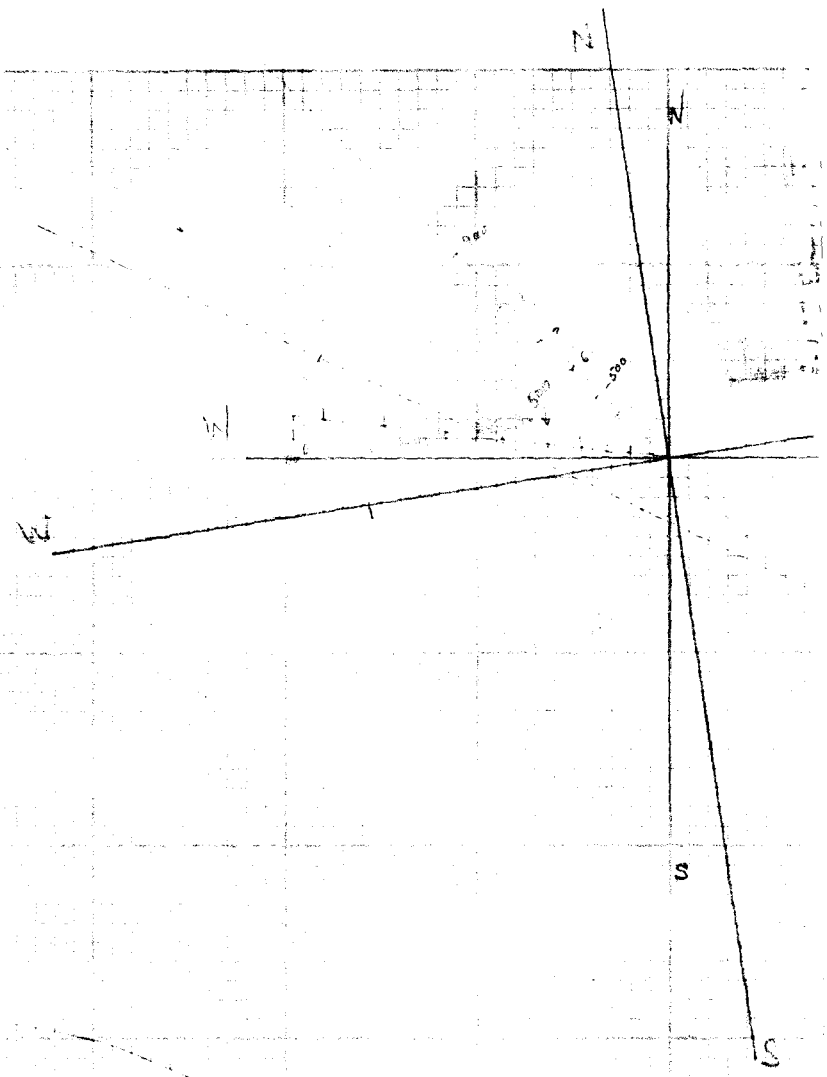
UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
VOLCANICS 259.0-264.0	Fine to medium grained dark greenish grey rock - basaltic in appearance. Slightly porphyritic with mica phenocrysts. Mn. or carbonate veining, some veins have chlorite rims. More competent rocks than upper volcanics. Minor shearing.	
BIOTITE PYROXENE HORNFELS 264.0-269.5m	Barded dark green and grey rock Banding at 65-70° with slight intermixing between pyroxene and biotite bands.	65-70
APLITE 269.5-271.0	Fine grained white to pink rock of granitic composition. Mainly quartz and feldspar with less than 10% ferro-magnesian minerals	
BIOTITE PYROXENE HORNFELS 271.0-278.6m	Banding contorted at upper contact with aplite Some silification and quartz veining.	65-70
GRANITE 278.6-297.48m	Medium grained, occasionally porphyritic white pink granite. Rich in orthoclase with minor ferro magnesian minerals.	

HOLE COMPLETED 297.48 metres

DDH 401

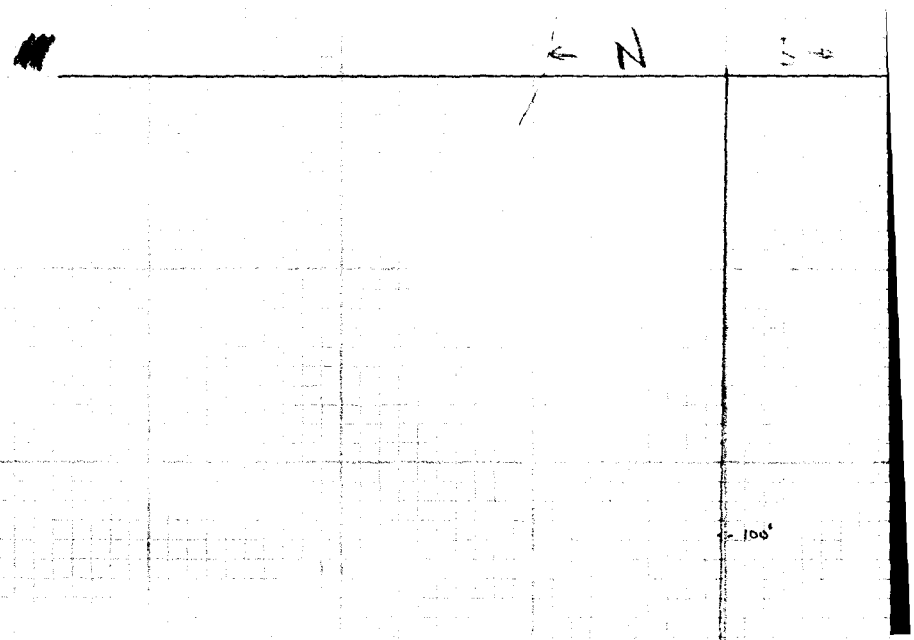
SURVEYED TO 940'

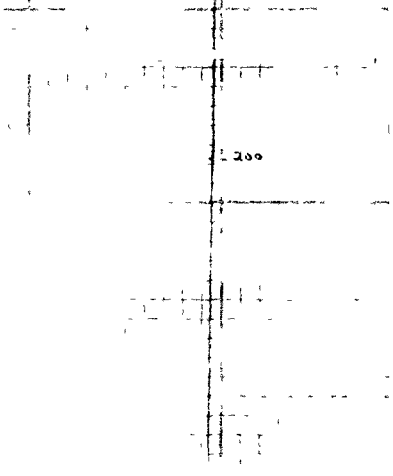
Scale 1:500

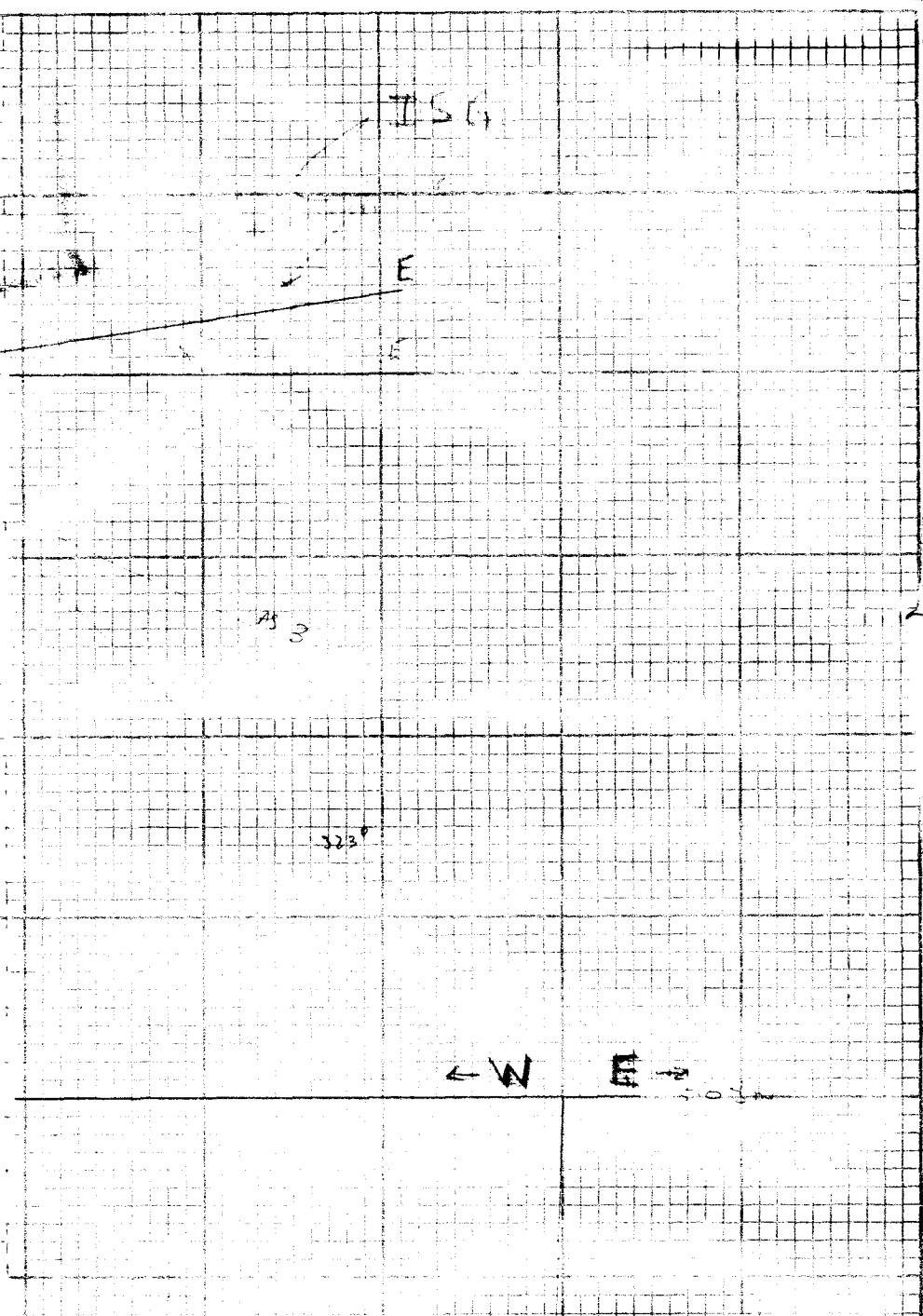


DDH 401.

Total depth: 950'
SURVEYED TO: 940'
CASING 405'
DATE 11-3-71.






E
323°
W
E

$\frac{dy}{dx} = \frac{1}{2}\sqrt{\frac{x}{1-x}}$

401

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 401 Date Surveyed 11/3/71

Total Depth Depth Surveyed To 940

Casing Depth 410 Surveyed By MD.PF

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
1	00	0			23	22	280	2°45'	03°SE	
2	1	0			24	23	300	3°	70°SE	
3	2	m			25	24	320	3°	78°NW	
4	3	m			26	25	340	3°	46°SW	
5	4	M			27	26	360	3°	74°SW	
6	5	10	2°	50°SW	28	27	380	3°30'	04°SW	
7	6	10	m		29	28	400	3°30'	81°NW	
8	7	20	1°45'	18°SE	30	29	420	3°45'	22°NE	
9	8	20	1°45'	20°SE	31	30	440	4°	58°NW	
10	9	[illegible]	m		32	31	460	3°30'	70°NW	
11	10	40	1°45'		33	32	480	4°	67°NW	
12	11	60	m		34	33	500	4°45'	72°NW	
13	12	80	2°15'	30°SW	35	34	500	5°	72°NW	500 5°15' 81°NW
14	13	100	2°15'	44°NW	36	35	520	5°	72°NW	
15	14	120	2°15'	18°NW	37	36	540	5°45'	82°NW	
16	15	140	3°	04°SE	38	37	560	6°	83°NW	
17	16	160	3°	03 NE	39	38	580	6°15'	83°NW	
18	17	180	2°45	17°SE	40	39	600	6°15'	82°NW	
19	18	200	2°45'	01°NW	41	40	620	6°30'	83°NW	
20	19	220	2°45'	01°SW	42	41	640	6°45'	82°NW	
21	20	240	2°30'	75°SW	43	42	660	7°	81°NW	
22	21	260	2°45'	-	44	43	680	7°	84°NW	

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No.	401	Date Surveyed	11-3-71
Total Depth	950	Depth Surveyed To	940
Casing Depth	405	Surveyed By	PHF. MJD.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
45	44	700	7°15'	84° NW	67	66	900	8°30'	82° NW
46	45	700	7°15'	83° NW	68	67	880	8°30'	86° NW
47	46	720	7°15'	83° NW	69	68	860	8°15'	87° NW
48	47	740	7°30'	87° NW	70	69	840	8°	84° NW
49	48	760	7°30'	84° NW	71	70	820	8°	82° NW
50	49	780	7°30'	84° NW	72	71	800	8°	81° NW
51	50	800	7°45'	83° "	73	72	780	8°	81° "
52	51	820	8°	85° "	74	73	760	8°	82° "
53	52	840	8°15'	84° "	75	74	740	8°	84° "
54	53	860	8°	86° "	76	75	720	7°45'	86° "
55	54	880	8°	84° "	77	76	700	7°15'	87° "
56	55	900	8°15'	84° "	78	77	680	7°	82° "
57	56	920	8°15'	84° "	79	78	660	7°15'	81° "
58	57	940	8°15'	85° "	80	79	640	7°	82° "
59	58	940	8°15'	85°	81	80	620	6°45'	84° "
60	59	940	8°15'	86°	82	81	600	6°30'	84° "
61	60	940	"	"	83	82	580	6°	89 SW
62	61	940	"	"	84	83	560	5°45'	89 SW
63	62	940	"	"	85	84	540	5°15'	85° NW
64	63	940	"	"	86	85	520	4°45'	88° NW
65	64	940	8°15'	84° NW	87	86	500	4°45'	76° NW
66	65	920	8°30'	82° "	88	87	480	4°45'	72° NW

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 401 Date Surveyed 11 3 71

Total Depth 950' Depth Surveyed To 940

Casing Depth 405' Surveyed By PHF MJD

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
89	88	460	4°30'	70°NW						
90	89	440	4°15'	63°NW						
91	90	420	3°45'	58°NW						
92	91	40	3°30'	31°NW						
93	92		3°45'	79°NW						
92	93		3°45'	50°NE						
93	94		M							
94	95									
95	96									
96	97									
97	98									
98	99									
99	100									
	115									
	116	0								
	END									

CASING

REMARKS:-

DIAMOND DRILL HOLE SURVEY

EASTMEN - KODAK MULTISHOT CAMERA

D.D.H. No: D 401 Date Surveyed _____

Total Depth _____ Depth Surveyed to _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc. assume	Mean Drift Direc. N W	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of CO-Ords. N/S	Sum of CO-Ords. E/W
~~240~~	1 45	1.45	.9995 / .0305	19.99	19.99	.61		70	.3420 / .9397	.21	.57	.21	.57
40	1 45	1.45	—	19.99	39.98	.61			—	.21	.57	.42	1.14
60		2.0	.9994 / .0349	19.99	59.97	.70			—	.24	.66	.66	1.8
80	2 15	2.15	.9992 / .0394	19.98	79.95	.79			—	.27	.74	.93	2.54
100	2 15	2.15	—	19.98	99.93 (30.46)	.79			—	.27	.74	1.2 (.36)	3.28 (1.0)
120	2 15	2.15	—	19.98	119.91	.79			—	.27	.74	1.47	4.02
140	3	3	.9986 / .0523	19.97	139.88	1.05			—	.36	.99	1.83	5.01
160	3	3	—	19.97	159.85	1.05			—	.36	.99	2.19	6
180	2 45	2.45	.9988 / .0480	19.98	179.83	.96			—	.33	.90	2.52	6.9
200	2 45	2.45	—	19.98	199.81 (60.90)	.96			—	.33	.90	2.85 (.87)	7.8 (2.38)
220	2 45	2.45	—	19.98	219.79	.96			—	.33	.90	3.18	8.7
240	2 30	2.30	.9990 / .0436	19.98	239.77	.87			—	.30	.82	3.48	9.52
260	2 45	2.45	.9988 / .0480	19.98	259.75	.96			—	.33	.90	3.81	10.42
280	2 45	2.45	—	19.98	279.73	.96			—	.33	.90	4.14	11.32
300	3	3	.9986 / .0523	19.97	299.70 (91.35)	1.05			—	.36	.99	4.5 (1.39)	12.31 (3.75)

07 = .12

22 = .37

Sheet No..... of.....

DIAMOND DRILL HOLE SURVEY

52 = .87

EASTMEN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed to _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of CO-Ords. N/S	Sum of CO-Ords. E/W
320	3	3	——	19.99	319.67	1.05			——	.36	.99	4.86	13.3
			——						——				
340	3	3	——	19.99	339.64	1.05			——	.36	.99	5.22	14.29
			——						——				
360	3	3	——	19.99	359.61	1.05			——	.36	.99	5.58	15.28
			——						——				
380	3 30	3.30	.9981 / .0610	19.96	379.57	1.22			——	.42	1.15	6	16.43
			——		121.98				——			1.96	5.36
400	3 30	3.30	——	19.96	399.53	1.22			——	.42	1.15	6.42	17.58
			——						——				
420	3 45	3.45	.9978 / .0654	19.96	419.49	1.31			——	.45	1.23	6.87	18.81
	3 45		——						——				
440	4	4.07	.9974 / .0718	19.95	439.44	1.44	N 58 W	N 60½ W	.4924 / .8703	.71	1.25	7.58	20.06
	4 15		——				63		——				
460	3 30	4	.9976 / .0698	19.95	459.39	1.40	70	70	.3420 / .9397	.48	1.32	8.06	21.38
	4 30		——				70		——				
480	4	4.22	.9971 / .0762	19.94	479.33	1.52	67	69½	.3502 / .9367	.53	1.42	8.59	22.8
	4 45		——				72		——			2.26	7.43
500	4 45	4.45	.9966 / .0828	19.93	499.26	1.66	72	74	.2756 / .9612	.46	1.59	9.05	24.39
	4 45		——		152.19		76		——				
520	5	4.52	.9964 / .0788	19.93	519.19	1.58	72	75	.2588 / .9659	.41	1.53	9.46	25.92
	4 45		——				78		——				
540	5 45	5.30	.9953 / .0958	19.91	539.1	1.92	82	83½	.1132 / .9936	.22	1.91	9.68	27.83
	5 15		——				85		——				
560	6	5.52	.9948 / .1023	19.90	559.0	2.05	83	86	.0698 / .9976	.14	2.04	9.82	29.87
	5 45		——				89		——				
580	6 15	6.07	.9943 / .1068	19.89	578.89	2.14	83	86	.0698 / .9976	.15	2.13	9.97	32
	6		——		182.5		89		——			3.12	10.42
600	6 15	6.22	.9938 / .1109	19.88	598.77	2.22	82	83	.1219 / .9925	.27	2.20	10.24	34.2
	6 30						84						

DIAMOND DRILL HOLE SURVEY

EASTMEN - KODAK MULTISHOT CAMERA

D.D.H. No. _____ Date Surveyed _____

Total Depth _____ Depth Surveyed to _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of CO-Ords. N/S	Sum of CO-Ords. E/W
620	6 30	6.37	.9933 / .1153	19.87	~~2.21~~ 618.64	2.31	83	83½	.1132 / .9936	.26	2.29	10.5	36.49
	6 45		——				84		——				
640	6 45	6.52	.9928 / .1196	19.86	~~2.39~~ 638.5	2.39	82	82	.1392 / .9903	.33	2.37	10.83	38.86
	7		——				82		——				
660	7	7.07	.9923 / .1241	19.85	~~2.48~~ 658.35	2.48	81	81	.1564 / .9877	.39	2.45	11.22	41.31
	7 15		——				81		——				
680	7	7	.9925 / .1219	19.85	~~2.44~~ 678.2	2.44	84	83	.1219 / .9925	.30	2.42	11.52	43.73
	7		——				82		——				
700	7 15	7.15	.9920 / .1262	19.84	~~2.12.26~~ ~~2.52~~ 698.04	2.52	84	85½	.0784 / .9969	.20	2.51	3.57 11.72	14.09 46.24
	~~7 15~~		——				87		——				
720	7 15	7.30	.9914 / .1305	19.83	~~2.61~~ 717.87	2.61	83	84½	.0958 / .9953	.25	2.60	11.97	48.84
	7 45		——				86		——				
740	7 30	7.45	.9909 / .1348	19.82	~~2.40~~ 737.69	2.70	87	85½	.0784 / .9969	.21	2.69	12.18	51.53
	8		——				84		——				
760	7 30	7.45	——	19.82	~~2.40~~ 757.51	2.70	84	83	.1219 / .9925	.33	2.68	12.51	54.21
	8		——				82		——				
780	7 30	7.45	——	19.82	~~2.40~~ 777.33	2.70	84	82½	.1305 / .9914	.35	2.68	12.86	56.89
	8		——				81		——				
800	7 45	7.52	.9906 / .1369	19.81	2.42.97 ~~2.90~~ 797.14	2.74	83	82	.1392 / .9903	.38	2.71	4.03 13.24	14.17 59.60
	8		——				81		——				
820	8	8	.9903 / .1392	19.81	~~2.88~~ 816.95	2.78	85	83½	.1132 / .9936	.31	2.76	13.55	62.36
	8		——				82		——				
840	8 15	8.07	.9899 / .1414	19.80	~~2.83~~ 836.75	2.83	84	84	.1045 / .9945	.30	2.81	13.85	65.17
	8		——				84		——				
860	8	8.07	——	19.80	~~2.83~~ 856.55	2.83	86	86½	.0610 / .9981	.17	2.82	14.02	67.99
	8 15		——				87		——				
880	8	8.15	.9896 / .1434	19.79	~~2.89~~ 876.34	2.87	84	85	.0871 / .9962	.25	2.86	14.27	70.85
	8 30		——				86		——				
900	8 15 8 30	8.22	.9893 / .1456	19.79	2.13.14 ~~2.91~~ 896.13	2.91	84 82	83	.1219 / .9925	.35	2.89	4.46 14.62	22.47 73.74

Sheet No..... of.....

DIAMOND DRILL HOLE SURVEY

EASTMEN - KODAK MULTISHOT CAMERA

D.D.H. No. D 401 Date Surveyed _____

Total Depth _____ Depth Surveyed to _____

Casing Depth _____ Surveyed By _____

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc. N W	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of CO-Ords. N/S	Sum of CO-Ords. E/W
920	8 15	8.22	—	19.19	915.92	2.91	84	83	.1219 / .9925	.35	2.89	14.97	76.63
	8 30		—				82		—				
940	8 15	8.15	.9896 / .1434	19.19	935.71	2.91	86	86	.0698 / .9976	.20	2.90	15.17	79.53
	8 15		—				86		—				
	8 15		—				86		—				
	etc.		—				etc		—				
			—						—				
950 estimate		8.15	.9896 / .1434	9.90	288.22 945.61	1.43	86	86	.0698 / .9976	.10	1.43	4.65 15.27	24.68 80.96

DIAMOND DRILL HOLE No. 400

LOCATION -	No. 2 Orebody
CO-ORDINATES -	99,701.1N:102,306.4E
R.L. -	15.9'A ~~4.21m~~ 4.8m
DATE COMMENCED -	27th August, 1970
DATE COMPLETED -	11th November, 1970
FINAL DEPTH -	312.4 meters
DATE SURVEYED -	November 19, 1970
LOGGED -	N. R. Kinnane.

I.S.G Coords: 564017.7N
220,331.3 E
R.L. = ~~82.2m~~ 8.1m

Ron Cole
(Maunsell & Partners)

From -

August 24, 1970.

SUBJECT:- D.D.H. 400 - No. 2 Area

The Watermore churn drill has now completed pre-collaring the first drill hole in No. 2 Area. This hole is to be designated as D.D.H. 400.

The results of this preliminary drilling is summarised below in the Driller's Log.

0	to	7.925m	Rubble and Filling
0	to	26'	
7.925m	to	14.935m	Grey Sand
26'	to	49'	
14.935m	to	15.088m	Large Gravel
49'	to	49.5'	
15.088m	to	20.726m	Grey Sand
49.5'	to	68'	
20.726m	to	23.774m	Decomposed clay and brown coal
68'	to	78'	
23.774m	to	27.432m	Decomposed rock
78'	to	90'	
27.432m	to	30.480m	Bedrock
90'	to	100'	
			Precollaring completed at 100'.

Please note that all work on No. 2 Area is to be done in metric measurements, English equivalents will be placed below metrics for convenience for the time being.

A sample of rock and clay has been taken for your use.

N. R. Kinnane,
GEOLOGIST

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
RUBBLE & FILLING 0m to 7.9m	RUBBLE & FILLING - dump material.	
GREY SAND 7.9m - 14.9m	GREY SAND - fine to medium grained grey unconsolidated sand.	
GRAVEL 14.9m to 15.0m	GRAVEL - coarse gravel layer.	
GREY SAND 15.0m to 20.7m	GREY SAND - fine to medium grained grey unconsolidated sand.	
CLAY 20.7m to 27.4m	CLAY - green highly chloritic clay with fragments of volcanics dispersed throughout. From 20.726m to 23.774m clay contains coal seams - recent lignite type deposits.	
VOLCANICS 27.4m to 30.5m	VOLCANICS - medium grained green porphyritic rock. At a depth of 30.480m the pre-collar rig was stopped and the Diamond Drill was set up over the site.	
VOLCANICS 36m to 144.8m	VOLCANICS - medium grained green rock rather basaltic in appearance, well jointed and fractured. Joints chlorite coated. Quartz vein - 37.8m to 38.2m. Porphyroblasts appear in rock, rather mica rich. From 38.2m to 39.5m rock friable in nature. Rock highly fractured throughout. 36m to 46.3 fine grained basaltic rock. 46.3m to 48.6m medium grained green black porphyritic rock. 48.6m to 56m, fragmental volcanic - large angular and wispy fragments set in a fine matrix. In some places injection like structures appear to occur, plastic deformation may have occurred. Calcite veins common. Joints commonly calcite filled with some alteration along veins. 56m to 68.3m still porphyritic but not fragmental. Rock medium grained green. 68.3m to 79.5m, dark green strongly porphyritic rock with large mica rich porphyroblasts. 79.5m to 89.3m, dark green porphyritic rock lacking large mica porphyroblasts. Core badly broken - brecciated at 77.5m, 78.5m and 79m. Joints increase in frequency below 77.3m.	0° 20° 40° 75°

GEOPEKO LIMITED, KING ISLAND — DIAMOND DRILL

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D	ASSAYS WO_3	ASSAYS Mo	ASSAYS	ASSAYS
	0 meters	7.9 m	7.9m					
	7.9 m	14.9m	7.0m					
P	14.9m	15.0m	0.1m					
R								
E	15m	20.7m	5.7m					
-								
C								
O	20.7m	27.4m						
L								
L								
A								
R								
	27.4m	30.5m						
D	30.5m	36.0m	5.5m	0.0m				
I								
A								
M								
O								
N								
D								
D								
R								
I								
L								
L								

UNIT	GEOLOGICAL DESCRIPTION	FRACTURIN
	Joints predominantly 0^{o}, 40^{o} to 50^{o} and 20^{o}.	$0^{o}40^{o}20^{o}$
	Joints commonly calcite & chlorite filled,	
	the latter more common. 50% of joints are	
	tight. From 83.5m to 86.4m FAULT Strongly	
	brecciated rock with fragments of volcanics	
	set in a chloritic and calcite groundmass,	
	the latter is not very common. Fracturing is	
	intense.	
	From 86.45m to 90.5m the rock is fine grained	
	and dark green with some mica porphyroblasts.	
	Strongly jointed at 10^{o}. From 90.5 to 91m	
	FAULT brecciated volcanics with calcite and	
	chlorite.	
	FAULT 92.2m to 93.6m.	
	From 93.6m to 95.5m fine grained green vol-	Joints 20
	canic rock, porphyritic in patches, mica	and 40^{o}
	porphyroblasts.	
	From 95.5m to 100m, FAULT intense fracturing	
	and jointing with abundant chloritic material	
	fragments of volcanics and what appears to be	
	garnet. From 100m to 103.2m fine grained green	
	porphyritic volcanic. 103.2 to 105m brecciated	
	and highly jointed zone. 105m to 112.55 vol-	
	canics - numerous calcite filled joints - tight.	
	Fine grained to medium grained porphyritic rock	
	large mica porphyroblasts. From 112.55 to 115m	0^{o},30
	broken and sheared ground probably brecciated,	50^{o},70
	abundant chlorite. Joints chlaite coated with	
	some calcite infilling. Rock appears somewhat	
	banded in part, porphyroblasts, exhibits some	
	banding and grouping. From 115m to 118.5m fine	
	grained green rock with prominant joints,	30^{o},50
	calcite filled and chlorite coated.	70
	122.25m to 123.5m solid core. 118.5m to 122.25	
	breccia - fragments of volcanics set in a	
	clayey chloritic matrix. Shears and joints	20^{o},70^{o}
	common. Less calcite in this zone, more	50^{o}
	abundant from 120m to 122m. 123.5m to 125m,	
	Fault Zone. 125m to 131.6m solid fine grained	
	volcanics fewer spotty porphyroblasts. Minor	
	shears and breccia zones - see fracture log.	
	129.5m abundant mica porphyroblasts.	
	131.5m to 131.75m calcite filled breccia zone	
	133.5m to 133.6m " " "	

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D	ASSAYS WO_3	ASSAYS Mo		
	144.8m	165.5m						
A4110	165m	165.5m	0.5m	0.5m	0.06	(0.01		
A4111	165.5m	166	0.5	0.5	0.58	0.026		
A4112	166m	166.5	0.5	0.5	0.77	0.025		
A4113	166.5	167	0.5	0.5	0.50	0.020		
A4114	167m	167.5m	0.5m	0.5m	0.07	(0.01		
A4115	167.5	168	0.5	0.5	0.03	(0.01		
A4116	168	168.5	0.5	0.5	0.04	(0.01		
A4117	168.5	169	0.5	0.5	0.05	(0.01		
A4118	169	169.5	0.5	0.5	0.05	(0.01		
A4119	169.5	170	0.5	0.5	0.07	(0.01		
A4120	170	170.5	0.5	0.5	0.03	(0.01		
A4121	170.5	171	0.5	0.5	0.07	(0.01		
A4122	171	171.5	0.5	0.5	0.06	(0.01		
A4123	171.5	172	0.5	0.5	0.05	(0.01		

DRILL LOG DRILL HOLE No. 400

UNIT	GEOLOGICAL DESCRIPTION	FRACTURI
	134m to 135.2 calcite filled breccia zone.	
	138.8m to 140.7m fault, calcite filled	
	chlorite and calcite some clay. Biotite rich	
	rock slightly schistose in places. From	
	141.5 highly pyroxene rich rock zone with	
	some evidence of biotite schistocity. From	
	144m distinct sedimentary beds. Trend of beds Trend	
	40 to 45°. Quartz veins common.	
BIOTITE HORNFELS/ VOLCANICS 144.8m to 165.5m	BIOTITE HORNFELS/VOLCANICS, an interbedded	
	sequence of fine grained schistose biotite	
	rich rock and fine grained green volcanics	
	often porphyritic. Breccia 144.5m to 146.6m.	
	152.0m to 156.7m highly fractured ground	
	fragments of both Bh and Volc appear. Shearing	
	and jointing rather than brecciation the	
	reason for fracture. Rock becomes somewhat	
	schistose below 156.7m - bedding at 45°. At	
	160m rock becomes silica rich and schistose	
	in appearance. Banding still between 60 and 70°.	
	At 162m to 162.2m aplite dyke - fine grained	20°, 70° 45°
	pink rock with some biotite. From 165m to	
	165.5m breccia zone with calcite and garnet	
	fragments. Minor blue fluorescing scheelite	
	occurs in veins at 164m to 165m.	
GARNET/PYROXENE SKARN. 165.5 to 167.1m	GARNET PYROXENE SKARN - highly altered and	
	strongly jointed impure andradite rich	
	pyroxene skarn. Very good finely disseminated	
	scheelite is scattered throughout and some	
	scheelite occurs as coarse vein fillings. At	15°-20°
	about 166m vein of coarse scheelite cuts core	45° & 80°
	at 40°. Joints calcite filled and more rarely	
	chlorite coated. Indistinct bedding 40° & 45°.	
MARBLE 167.1m to 175.6m	MARBLE, fine grained to medium grained grey	
	marble well bedded with distinct upper bedded	
	contact at 43°. Joints calcite filled. Some	15°, 45°
	breccia occurs particularly associated with	70°
	jointed area from 167.1m to 167.4m. Minor	
	movement appears to occur on 15° joint set.	
	Limestone becomes very distinctly bedded with	
	fine interbedded shaley layers. Distinct	
	breccia zone from 170.7m to 171m, from 171.6m	
	to 172m and from 167.9m to 168.5m.	

GEOPEKO LIMITED, KING ISLAND — DIAMOND

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D	ASSAYS WO_3	ASSAYS Mo
A4124	172m	172.5	0.5	0.5	0.05	(0.01
A4125	172.5	173	0.5	0.5	0.05	(0.01
A4126	173	173.5	0.5	0.5	0.04	(0.01
A4127	173.5	174	0.5	0.5	0.04	(0.01
A4128	174	174.5	0.5	0.5	0.05	(0.01
A4129	174.5	175	0.5	0.5	0.04	(0.01
A4130	175	175.5	0.5	0.5	0.06	(0.01
A4131	175.5	176	0.5	0.5	0.17	0.012
A4132	176	176.5	0.5	0.5	0.62	0.021
A4133	176.5	177.0	0.5	0.5	1.0	0.031
A4134	177	177.5	0.5	0.5	0.39	0.024
A4135	177.5	178	0.5	0.5	0.10	(0.01
A4136	178	178.5	0.5	0.5	0.29	0.017
A4137	178.5	179.0	0.5	0.5	0.51	0.020
A4138	179	179.5	0.5	0.5	0.59	0.019
A4139	179.5	180	0.5	0.5	0.64	0.020
A4140	180	180.5	0.5	0.5	0.77	0.019
A4141	180.5	181	0.5	0.5	2.10	0.097
A4142	181	181.5	0.5	0.5	2.70	0.014
A4143	181.5	182	0.5	0.5	1.70	0.058
A4144	182	182.5	0.5	0.5	1.40	0.082
A4145	182.5	183	0.5	0.5	2.50	0.108
A4146	183	183.5	0.5	0.5	3.70	0.113
A4147	183.5	184	0.5	0.5	1.28	0.037
A4148	184	184.5	0.5	0.5	3.70	0.110
A4149	184.5	185	0.5	0.5	2.20	0.088
A4150	185	185.5	0.5	0.5	3.10	0.058
A4097	185.5	186	0.5	0.5	2.00	0.039
A4098	186	186.5	0.5	0.5	0.01	(0.01
	186.2	201.2				

DRILL LOG

DRILL HOLE No. 400

UNIT	GEOLOGICAL DESCRIPTION	FRACTUR
	Very fine disseminated scheelite occurs throughout, grade is difficult to determine. Bedding at 30° to 45° and appears to gradually steepen, jointing pronounced often exhibiting movement and faulting of limy beds. Set at 45° at right angles to the bedding. Joints tight, some open.	30°,45° 28°
GARNET-PYROXENE SKARN 175.6m to 186.2	GARNET-PYROXENE SKARN - massive medium to coarse grained brown and green brown andradite rich skarn. It is well bedded and banded in the upper part and well jointed and fractured. Bedding at 40°. The rock type changes from a pure garnet-pyroxene rich skarn to a garnet skarn and pyroxene skarn. This change is irregular and appears to be unrelated to bedding. Veins of coarse scheelite often occur as filling in wide calcite filled joints. Joints calcite and clay filled, minor chlorite also occurs, some are right, the majority are open. Very good disseminated scheelite throughout.	20°,40°-45°
BIOTITE HORNFELS 186.2 to 201.2	BIOTITE HORNFELS - fine grained banded highly siliceous, often schistose and well bedded. From 186.5 to 189.3m, 1 meter lost core. Core highly fractured and jointed, rock often porous due to unfilled and open joints. At 199.2m the rock grades into a distinct breccia zone with fragments of the Pyroxene Garnet Hornfels and banded biotite rock	25° & 45° 45°

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D	ASSAYS WO_3	ASSAYS Mo
A4099	200.5	200.7	0.2	-	0.43	0.016
A4100	200.7	201.2	0.5		0.07	0.010
A4151	201.2	201.5	0.3	0.3	0.45	0.010
A4152	201.5	202	0.5	0.5	0.06	(0.01
A4153	202	202.5	0.5	0.5	4.90	0.062
A41 54	202.5	203	0.5	0.5	0.51	0.011
A4155	203	203.5	0.5	0.5	0.22	0.011
A4156	203.5	204	0.5	0.5	1.40	0.038
A4157	204	204.5	0.5	0.5	0.44	0.017
A4158	204.5	205	0.5	0.5	0.28	0.014
A4159	205	205.5	0.5	0.5	0.67	0.016
A4160	205.5	206	0.5	0.5	0.48	0.020
A4161	206	206.5	0.5	0.5	0.10	0.010
A4162	206.5	207	0.5	0.5	0.06	(0.01
A4163	207	207.5	0.5	0.5	0.06	0.010
A4164	207.5	208	0.5	0.5	3.10	0.046
A4165	208	208.5	0.5	0.5	0.10	(0.01
A4166	208.5	209	0.5	0.5	0.06	(0.01
A4167	2090	209.5	0.5	0.5	2.80	0.052
A4168	209.5	210	0.5	0.5	0.06	(0.01
A4169	210	210.5	0.5	0.5	2.82	0.051
A4170	210.5	211	0.5	0.45	4.0	0.075
A4171	211	211.5	0.5	0.5	2.48	0.075
A4172	211.5	212	0.5	0.5	0.57	0.011
A4173	212	212.5	0.5	0.5	0.22	(0.01
A4174	212.5	213	0.5	0.5	1.96	0.033
A4175	213	213.5	0.5	0.5	12.0	0.180
A4176	213.5	214	0.5	0.5	6.90	0.160
A4177	214	214.5	0.5	0.5	2.30	0.028
A4178	214.5	215	0.5	0.5	3.0	0.048
A4179	215	215.5	0.5	0.5	2.0	0.028
A4180	215.5	216	0.5	0.5	1.90	0.021
A4181	216	216.5	0.5	0.5	2.40	0.046
A4182	216.5	217	0.5	0.5	3.20	0.062
A4183	217	217.5	0.5	0.5	1.65	0.044
A4184	217.5	218	0.5	0.5	2.0	0.051
A4185	218 0	218.5	0.5	0.5	1.80	0.041
A4186	218.5	219	0.5	0.5	4.50	0.091
A4187	219	219.5	0.5	0.5	1.40	0.026
A4188	219.5	220	0.5	0.5	2.80	0.062

DRILL LOG

DRILL HOLE No. 400

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
	From 220.7m to 201.2m 0.4m lost core.	
	0.5m lost core between 193.9m to 196.1m.	
	Breccia from 199.2m to 201.2m minor scheelite occurs in the breccia.	
PYROXENE GARNET HORNFELS 201.2 to 212.8m	PYROXENE GARNET HORNFELS - in the main a fine grained green to black rock containing abundant coarse grained ovoids of calcite surrounded by garnet rims. This slowly grades into a skarn like rock towards 212m. Joints calcite filled with minor chlorite. Scheelite occurs throughout the sequence as fine grains or coarse crystals. Coarse veins of scheelite at 210.3m and 210.8m.	20 - 30°, 45°, 70°
GARNET SKARN 212.8 to 225.5m	GARNET SKARN, medium to coarse grained brown and brown green andradite skarn. Rock in general fairly competent with predominantly few and mainly tight joints. Joints both chlorite but mainly calcite filled. Very good disseminated scheelite throughout. Some minor textural and compositional banding but not distinct or regular, no visible bedding. From 213.1 to 213.3m a series of coarse scheelite veins containing some molybdenite. One veins is 0.15cm wide. Joints more abundant below 223.5m. Joints still ≈ 45°. Minor traces of bedding appear at 224.5m to 225m being between 40 and 45°.	30, 40 & 45°

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D	ASSAYS WO_3	ASSAYS Mo
A4189	220	220.5	0.5	0.5	3.0	0.089
A4190	220.5	221	0.5	0.5	1.62	0.035
A4191	221	221.5	0.5	0.5	1.35	0.018
A4192	221.5	222	0.5	0.5	1.56	0.032
A4193	222	222.5	0.5	0.5	1.83	0.055
A4194	222.5	223	0.5	0.5	3.62	0.078
A4195	223	223.5	0.5	0.5	227	0.040
A4196	223.5	224	0.5	0.5	1.81	0.03
A4197	224	224.5	0.5	0.5	0.91	0.014
A4198	224.5	225	0.5	0.5	0.90	0.012
A4199	225	225.5	0.5	0.5	0.29	0.013
A4200	225.5	226	0.5	0.5	0.77	0.011
A4201	226	226.5	0.5	0.5	0.78	0.021
A4202	226.5	227	0.5	0.5	2.34	0.055
A4203	227	227.5	0.5	0.5	1.12	0.016
A4204	227.5	228	0.5	0.5	0.08	0.010
A4205	228	228.5	0.5	0.5	0.17	0.011
A4206	228.5	229	0.5	0.5	0.21	0.010
A4207	229	229.5	0.5	0.5	1.35	0.035
A4208	229	230	1	1	0.55	0.011
A4209	230	230.5	0.5	0.5	0.64	0.021
A4210	230.5	231	0.5	0.5	0.12	(0.01
A4211	231	231.5	0.5	0.5	1.14	0.031
A4212	231.5	232	0.5	0.5	0.99	0.022
A4213	232	232.5	0.5	0.5	0.91	0.034
A4214	232.5	233	0.5	0.5	0.92	0.026
A4215	233	233.5	0.5	0.5	0.76	0.035
A4216	233.5	234	0.5	0.5	1.98	0.047
A4217	234	234.5	0.5	0.5	0.78	0.020
A4218	234.5	235	0.5	0.5	0.29	0.011
A4219	235	235.5	0.5	0.5	1.36	0.033
A4220	235.5	236	0.5	0.5	0.38	0.010
A4221	236	236.5	0.5	015	3.45	0.063
A4222	236.5	237	0.5	0.5	1.45	0.03
A4223	237	237.5	0.5	0.5	2.26	0.045
A4224	237.5	238	0.5	0.5	1.40	0.029
A4225	238	238.5	0.5	0.5	0.67	0.017
A4226	238.5	239	0.5	0.5	1.44	0.033
A4227	239	239.5	0.5	0.5	0.73	0.018
A4228	239.5	240	0.5	0.5	1.94	0.054
A4229	240	240.5	0.5	0.5	1.34	0.036
A4230	240.5	241	0.5	0.5	1.66	0.031
A4231	241	241.5	0.5	0.5	2.05	0.045

D DRILL LOG

DRILL HOLE No. 400

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
PYROXENE/BIOTITE/ GARNET-PYROXENE HORNFELS 225.5 to 230.9m	PYROXENE/BIOTITE/GARNET-PYROXENE SKARN, well banded and bedded rock sequence, being predominantly pyroxene and biotite hornfels with some bands of garnet and garnet-pyroxene skarn (minor marble bands). Bedding at 40 to 45°. Some areas appear almost like pyroxene garnet hornfels, with coarse calcite blebs. good disseminated scheelite occurs to 228.1m, from 228.1m to 228.6m no scheelite visible. Below this zone good scheelite exists. Rock less competant with numerous joint sets appearing, Joints chlorite filled. Breccia A biotite hornfels and marble sequence from 230.5m to 230.9m. Bedding at 50°.	40 - 45°
GARNET PYROXENE HORNFELS 230.9m to 234.1m	GARNET PYROXENE HORNFELS, medium to coarse grained banded and slightly bedded garnet skarn rich in pyroxene. Bedding 40 to 45°. Good disseminated scheelite.	
GARNET/GARNET-PYROXENE/BIOTITE/PYROXENE/CALCITE HORNFELS 234.1m to 252m	GARNET/GARNET PYROXENE/BIOTITE/PYROXENE/CALCITE HORNFELS - a well bedded and banded rock predomintly skarn with interbeds of fine grained hornfelsic rocks and marble. Bedding at 45°. Much of the marble is strongly banded. Very good disseminated scheelite thoughout the sequence. Joints show minor variations.	20°, 30° 45°

GEOPEKO LIMITED, KING ISLAND — DIAMONI

SAMPLE No.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REC'D	ASSAYS WO_3	ASSAYS Mo		
A4232	241.5	242	0.5	0.5	0.66	0.014		
A4233	242	242.5	0.5	0.5	0.55	0.017		
A4234	242.5	243	0.5	0.5	1.30	0.026		
A4235	243	243.5	0.5	0.5	1.07	0.025		
A4236	243.5	244	0.5	0.5	1.13	0.026		
A4237	244	244.5	0.5	0.5	1.10	0.041		
A4238	244.5	245	0.5	0.5	1.13	0.035		
A4239	245	245.5	0.5	0.5	0.74	0.026		
A4240	245.5	246	0.5	0.5	0.59	0.012		
A4241	246	246.5	0.5	0.5	0.45	0.01		
A4242	246.5	247	0.5	0.5	1.30	0.027		
A4243	247	247.5	0.5	0.5	1.03	0.01		
A4244	247.5	248	0.5	0.5	0.21	(0.01		
A4245	248	248.5	0.5	0.5	0.03	(0.01		
A4246	248.5	249	0.5	0.5	0.02	(0.01		
A4247	249	249.5	0.5	0.5	0.01	(0.01		
A4248	249.5	250	0.5	0.5	2.06	0.051		
A4249	250	250.5	0.5	0.5	4.13	0.093		
A4250	250.5	251	0.5	0.5	2.28	0.045		
A4251	251	251.5	0.5	0.5	1.39	0.029		
A4252	251.5	252	0.5	0.5	0.31	0.014		
A4253	252	252.5	0.5	0.5	0.07	0.011		
A4254	252.5	253	0.5	0.5	0.09	0.019		
A4255	253	253.5	0.5	0.5	0.07	0.014		
A4256	253.5	254	0.5	0.5	0.06	0.025		
A4257	254	254.5	0.5	0.5	0.07	0.023		
A4258	254.5	255	0.5	0.5	1.43	0.035		
A4259	255	255.5	0.5	0.5	0.58	0.020		
A4260	255.5	256	0.5	0.5	0.07	0.020		
A4261	256	256.5	0.5	0.5	0.07	0.017		
A4262	256.5	257	0.5	0.5	0.51	0.020		
A4263	257	257.5	0.5	0.5	0.58	0.012		
A4264	257.5	258	0.5	0.5	0.07	0.014		
A4265	258	258.5	0.5	0.5	0.06	0.019		
A4266	258.5	259	0.5	0.5	0.06	0.013		
A4267	259	259.5	0.5	0.5	1.96	0.042		
A4268	259.5m	260	0.5	015	0.08	(0.01		
A4269	260	260.5	0.5	0.5	0.06	(0.01		

DRILL LOG

DRILL HOLE No. 400

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
	Calcite, chlorite and clay infilling occurs on most joints. Bedding tends to vary between 40 and 50°. Below 245 m the rock becomes more distinctly bedded and banded with calcite/ marble bands developing at the expense of garnet and garnet-pyroxene skarn bands. These garnet beds tend to become more coarse and pyroxene rich . Bedding steepens to 60° at 248 m.	40° to 60° -10°, 30°
OTITE/PYROXENE RNFELS .0m to 259.7m	BIOTITE/PYROXENE HORNFELS fine grained black and green hornfels with zones of marble, garnet and garnet-pyroxene skarns. These garnet bands contain very good disseminated scheelite. Bedding 50 to 60° variable. Joints steepen below 257m.	50°, 20°
VOLCANICS .5m to 267.4m	OLD VOLCANICS, highly variable light to dark green rock, the main strongly porphyritic. From 259.5m to 264.6m fine grained green slightly porphyritic tuff like rock. Joints calcite and chlorite filled. Some joints approach shear planes. Many of the porphyroblasts felspathic. From 264.6m to 267.4m med medium grained highly porphyritic rock with what appears to be mica porphyroblasts.	0°, 20° 40°, 80°.

GEOPEKO LIMITED, KING ISLAND.

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SAMPLE No.	DISTANCE		LENGTH SAMPLED	LENGTH REC'D	ASSAYS	
	FROM	TO			WO_3	Mo
	267.4	279.7				
	279.7	312.4				

WOND DRILL LOG

DRILL HOLE No. 400

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
BIOTITE/PYROXENE HORNFELS 267.4m to 279.7m	BIOTITE/PYROXENE HORNFELS, fine grained banded and well bedded rock sequence comprising fine grained black biotite hornfels and fine grained green pyroxene hornfels. Bedding 50 to 60°. 268.5m to 269.6m fine grained pink aplite. Below 272m some calcite and minor garnet bands appear. Bedding 60°. Aplite 274.3m to 274.4m, aplite parallels bedding. At 273.5m minor sporadic scheelite occurs.	30°, 50°, 80°
GRANITE 279.7m to 312.4m	GRANITE, fine grained to coarse grained porphyritic white granite with veins and dykes of aplite, quartz and pegmatite. From 282.7m onwards coarse grained rock. Jointing variable and usually light and when open clay filled.	5°, 40°, 30°.

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 400 (Dolphin)

Logged By : -

Sample No.	FOOTAGES			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
B 1701	202.0	202.1	0.10	0.15	< 0.01		
2	202.1	202.2	"	0.06	< 0.01		
3	202.2	202.3	"	0.52	0.02		
4	202.3	202.4	"	13.20	0.26		
5	202.4	202.5	"	5.30	0.11		
6	202.5	202.6	"	0.05	0.01		
7	202.6	202.7	"	0.05	0.01		
8	202.7	202.8	"	0.09	0.01		
9	202.8	202.9	"	0.03	0.01		
10	202.9	203.0	"	0.04	0.01		
1	203.0	203.1	"	0.31	0.02		
2	203.1	203.2	"	0.10	0.01		
3	203.2	203.3	"	0.04	0.01		
4	203.3	203.4	"	0.05	0.01		
5	203.4	203.5	"	2.00	0.06		Rock type is
6	203.5	203.6	"	2.75	0.07		Pyroxene Garnet
7	203.6	203.7	"	0.15	0.01		Hornfels
8	203.7	203.8	"	0.05	0.01		
9	203.8	203.9	"	0.25	0.02		
20	203.9	204.0	"	0.03	< 0.01		
1	204.0	204.1	"	0.02	< 0.01		
2	204.1	204.2	"	0.05	0.01		
3	204.2	204.3	"	0.04	0.02		
4	204.3	204.4	"	3.60	0.09		
5	204.4	204.5	"	0.09	< 0.01		
6	204.5	204.6	"	0.09	0.02		
7	204.6	204.7	"	0.28	0.01		
8	204.7	204.8	"	0.07	0.01		
9	204.8	204.9	"	0.05	0.01		
B 1730	204.9	205.0	"	0.63	0.01		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 400

Logged By: NRK

	Sample No.	~~FOOTAGE~~ Metres			ASSAYS		L X A	REMARKS
		From	To	Length	WO_3	Mo		
	A 4110	165	165.5	0.5	0.06	0.01	0.03	
	1	165.5	166	0.5 (0.32)	0.58	0.026	0.29	1.5 metres
	2	166	166.5	0.5	0.77	0.25	0.39	at
	3	166.5	167	0.5 (0.63)	0.50	0.020	0.25	0.619% WO_3

127

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 400

Logged By: NRK

Sample No.	FOOTAGES Metres From	To	Length	ASSAYS WO_3	Mo	L X A	REMARKS
A 4114	167	167.5	.05	0.07	0.01		
5	167.5	168		0.03	0.01		
6	168	168.5	.04	0.04	0.01		
7	168.5	169		0.05	0.01		
8	169	169.5	.06	0.05	0.01		
9	169.5	170		0.07	0.01		
20	170	170.5	.08	0.03	0.01		
1	170.5	171		0.07	0.01		
2	171	171.5	.05	0.06	0.01		
3	171.5	172		0.05	0.01		
4	172	172.5	.05	0.05	0.01		
5	172.5	173		0.05	0.01		
6	173	173,5	.04	0.04	0.01		
7	173.5	174		0.04	0.01		
8	174	174.5	.04	0.05	0.01		
9	174.5	175		0.04	0.01		
30	175	175.5	.11	0.06	0.01		
1	175.5	176		0.17	0.012		
2	176	176.5	0.81	0.62	0.021		
3	176.5	177		1.0	0.031		
4	177	177.5	0.25	0.39	0.024		
5	177.5	178		0.10	0.01		
6	178	178.5	0.40	0.29	0.017		
7	178.5	179		0.51	0.02		10 metres
8	179	179.5	0.61	0.59	0.019		at
9	179.5	180		0.64	0.02		1.56% WO_3
40	180	180.5	1.44	0.77	0.019		
1	180.5	181		2.10	0.097		
2	181	181.5	2.20	2.7	0.014		
3	181.5	182		1.7	0.058		
4	182	182.5	1.95	1.4	0.082		
5	183.5	183		2.50	0.108		
6	183	183.5	2.99	3.7	0.113		
7	183.5	184		1.28	0.037		

G.E.

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 400

Logged By: NRK

Sample No.	Feet → Metres			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
A 4148	184	184.5	2.85	3.7	0.110		
9	184.5	185		2.2	0.088		
50	185	185.5	2.55	3.10	0.058		
A 4097	185.5	186		2.00	0.039		
8	186	186.5	—	0.01	0.01		
9	200.5	200.7	0.2	0.43	0.016		↓
A 4100	200.7	201.2	0.5	0.07	0.010		
A 4151	201.2	201.5	0.3	0.45	0.010		
2	201.5	202	2.48	0.06	0.01		5.5 metres
3	202	202.5		4.90	0.062		at
4	202.5	203	0.51	0.51	0.011		
5	203	203.5		0.52	0.011		0.786% WO_3
6	203.5	204	0.92	1.40	0.038		
7	204	204.5		0.44	0.017		
8	204.5	205	0.98	0.28	0.014		
9	205	205.5		0.67	0.016		
60	205.5	206	0.29	0.48	0.02		
1	206	206.5		0.10	0.01		
2	206.5	207.	0.06	0.06	0.01		
3	207	207.5		0.06	0.010		
4	207.5	208	1.60	3.10	0.046		
5	208	208.5		0.10	0.01		
6	208.5	209	1.43	0.06	0.01		
7	209	209.5		2.80	0.052		
8	209.5	210	1.44	0.06	0.01		
9	210	210.5		2.82	0.051		
70	210.5	211	3.24	4.0	0.075		
1	211	211.5		2.48	0.075		43 metres
2	211.5	212	0.39	9.57	0.011		at
3	212	212.5		0.22	0.01		
4	212.5	213	4.0	1.96	0.033		1.620% WO_3
5	213	213.5		12.0	0.180		
6	213.5	214	4.0	6.90	0.16		
7	214	214.5		2.30	0.028		
8	214.5	215	2.5	3.0	0.048		
			15				

23.59

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 400

Logged By: NRK

Sample No.	Footage — Metres			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3.	Mo		
A 4179	215	215.5		2.0	0.028		
80	215.5	216	2.15	1.90	0.021		
1	216	216.5		2.40	0.046		
2	216.5	217	2.93	3.20	0.062		
3	217	217.5		1.65	0.044		
4	217.5	218	1.90	2.0	0.051		
5	218	218.5		1.80	0.041		
6	218.5	219	2.95	4.50	0.091		
7	219	219.5		1.40	0.026		
8	219.5	220	2.90	2.80	0.062		
9	220	220.5		3.0	0.089		
90	220.5	221	1.99	1.62	0.035		
1	221	221.5		1.35	0.018		
2	221.5	222	1.69	1.56	0.032		
3	222	222.5		1.83	0.055		
4	222.5	223	2.95	3.62	0.078		
5	223	223.5		2.27	0.04		
6	223.5	224	1.36	1.81	0.03		
7	224	224.5		0.91	0.014		
8	224.5	225	0.60	0.90	0.012		
9	225	225.5		0.29	0.013		
A 4200	225.5	226	0.75	0.77	0.011		
1	226	226.5		0.73	0.021		
2	226.5	227	1.73	2.34	0.055		
3	227	227.5		1.12	0.016		
4	227.5	228	0.12	0.08	0.010		
5	228	228.5		0.17	0.011		
6	228.5	229	0.78	0.21	0.010		
7	229	229.5		1.35	0.035		
8	229.5	230	0.62	0.55	0.011		
9	230	230.5		0.64	0.021		
10	230.5	231	0.63	0.12	0.01		
1	231	231.5		1.14	0.031		
2	231.5	232	0.95	0.99	0.022		
3	232	232.5		0.91	0.034		
4	232.5	233	0.84	0.92	0.026		
5	233	233.5		0.76	0.035		

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 400

Logged By: NRK

Sample No.	From	To	Length	WO_3	Mo	L X A	REMARKS
A4251	251	251,5		1.39	0.029		
2	251.5	252	0.19	0.31	0.014		~~349.36~~
3	252	252.5		0.07	0.011		
4	252.5	253	0.08	0.09	0.019		
5	253	253.5		0.07	0.014		
6	253.5	254	0.06	0.06	0.025		
7	254	254.5		0.07	0.023		
8	254.5	255	1.01	1.43	0.035		
9	255	255.5		0.58	0.020		
60	255.5	256	0.07	0.07	0.020		
1	256	256.5		0.07	0.017		
2	256.5	257	0.54	0.51	0.020		
3	257	257.5		0.58	0.012		
4	257.5	258	0.07	0.07	0.014		
5	258	258.5		0.06	0.019		
6	258.5	259	1.01	0.06	0.013		
7	259	259.5		1.96	0.042		
8	259.5	260	0.07	0.08	0.01		
9	260	260.5		0.06	0.01		
			76.20				
			60m.				

57m at 1.32 % WO_3

200.5 – 259.5

1.34 % Mo

57m at 0.031% Mo

15.12 ÷ .57

DIAMOND DRILL HOLE ASSAY SHEET

Hole No.: 400

Logged By: NRK

Sample No.	Footages Metres			ASSAYS		L X A	REMARKS
	From	To	Length	WO_3	Mo		
A 4216	233.5	234	1.88	1.98	0.047		
7	234	234.5		0.78	0.02		
8	234.5	235	0.83	0.29	0.011		
9	235	235.5		1.36	0.033		
20	235.5	236	1.91	0.38	0.010		
1	236	236.5		3.45	0.063		
2	236.5	237	1.86	1.45	0.03		
3	237	237.5		2.26	0.045		
4	237.5	238	1.03	1.40	0.029		
5	238	238.5		0.67	0.017		
6	238.5	239	1.09	1.44	0.033		
7	239	239.5		0.73	0.018		
8	239.5	240	1.64	1.94	0.054		
9	240	240.5		1.34	0.036		
30	240.5	241	1.86	1.66	0.031		
1	241	241.5		2.05	0.045		
2	241.5	242	0.60	0.66	0.014		
3	242	242.5		0.55	0.017		
4	242.5	243	1.18	1.30	0.026		
5	243	243.5		1.07	0.025		
6	243.5	244	1.12	1.13	0.026		
7	244	244.5		1.10	0.041		
8	244.5	245	0.94	1.13	0.035		
9	245	245.5		0.74	0.026		
40	245.5	246	0.52	0.59	0.012		
1	246	246.5		0.45	0.01		
2	246.5	247	1.16	1.30	0.027		
3	247	247.5		1.03	0.01		
4	247.5	248	0.12	0.21	0.01		
5	248	248.5		0.03	0.01		
6	248.5	249	0.02	0.02	0.01		
7	249	249.5		0.01	0.01		
8	249.5	250	3.09	2.06	0.051		
9	250	250.5		4.13	0.093		
50	250.5	251	1.84	2.28	0.045		

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 400 Date Surveyed 11/11/70

Total Depth 1025 Depth Surveyed To 616

Casing Depth 188 Surveyed By V.M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	016W				22	280	4 45	N25W
	1	"				23	300	4 45	N24W
	2	"				24	300	4 45	N24W
	3	CLOSED				25	320	4 45	N23W
	4	"				26	340	4 45	N23W
	5	"				27	360	4 30	N21W
	6	"				28	380	4 15	N20W
	7	20	0 45			29	400	4 15	N20W
	8	40	2 15			30	400	4 15	N21W
	9	60	3 45			31	420	4 15	N21W
	10	80	(Poor Mon)			32	440	4 45	N19W
	11	100	4 45			33	460	4 45	N19W
	12	100	4 45			34	480	4 45	N23W
	13	120	4 45			35	500	5 15	N29W
	14	140	5 0			36	500	5 15	N29W
	15	160	5 0			37	520	5 30	N30W
	16	180	5 0			38	540	6 0	N31W
	17	200	5 0	N28W		39	560	6 15	N30W
	18	200	5 0	N27W		40	580	6 15	N29W
	19	220	4 45	N24W		41	600	6 15	N30W
	20	240	4 30 (Poor Mon)	N23W		42	600	6 15	N30W
	21	260	4 30	N23W		43	moving		

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 400 Date Surveyed 11/11/20

Total Depth 1025' Depth Surveyed To 610'

Casing Depth 188' Surveyed By V. M. FREESTONE.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	44	Mun				66	240	4 30	N28W
	45	440	6 0	N30W		67	220	4 15	N30W
	46	610	6 0	N30W		68	200	4 30	N31W
	47	610	6 0	N30W		69	180		
	48	600				70	160	4 30	
	49	580				71	140	4 30	
	50	560	6 15	N24W		72	120	4 30	
	51	540	5 45	N26W		73	100	4 30	
	52	520	5 15	N25W		74	80	4 15	
	53	500	5 15	N25W		75	60	3 15	
	54	480	4 45	N22W		76	40	2 15	
	55	460	4 45	N22W		77	20	0 45	
	56	440	4 45	N25W		78	10	(Run Mun).	
	57	420	4 45	N27W		79	CLOSED		
	58	400	4 45	N22W		80	"		
	59	380	4 45	N25W		81	"		
	60	360	5 0	N25W		82	"		
	61	340	5 0	N25W		83	"		
	62	320	4 45	N29W		84	OPEN		
	63	300	5 0	N32W		85	"		
	64	280	4 45	N32W					
	65	260	4 30	N31W					

REMARKS:-

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 480 · Date Surveyed 16/11/70

Total Depth 1025 · Depth Surveyed To 1000 ·

Casing Depth 188 · Surveyed By P. J. RICE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
	0	OPEN				39	740	6·30		
	1	"				40	760	7·30		
	2	"				41	780	7·00		
	3	CLOSED				42	800	7·00		
	4	"				43	800	6·45		
	5	(MOV)				44	820	7·15		
	↓					45	840	7·15		
	24	500	5·15			46	860	7·45		
	25	500	5·15			47	880	8·00		
	26	520	5·15			48	900	8·30		
	27	540	5·45			49	900	8·30		
	28	560	6·00			50	920	8·45		
	29	560	6·15			51	940	9·00		
	30	600	6·15			52	960	9·00		
	31	600	6·15			53	980	9·00		
	32	620	6·30			54	1000	9·00		
	33	640	6·15			55	1000	9·00		
	34	660	6·00			56	1000	9·00		
	35	680	6·00			57	1000	9·00		
	36	700	6·30			58	1000	9·00		
	37	700	6·30			59	1000	9·00		
	38	720	6·30			60	980	9·00		

REMARKS:- Surveyed inside drill rods.

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 400. Date Surveyed 16/4/70

Total Depth 1025' Depth Surveyed To 1000'

Casing Depth 188' Surveyed By P.J. RICE.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
	61	960	9.00			83	520	5·30		
	62	940	8·45			84	500	5·15		
	63	920	8·30			85	500	5·15		
	64	900	8·15			86	〃	✓		
	65	880	8·00			87	〃	✓		
	66	860	7·45			88	〃			
	67	840	7·30			89	〃			
	68	820	7·00			90	closed			
	69	800	6·45			91	〃			
	70	780	6·45			92	〃			
	71	760	7·00			93	OPEN			
	72	740	6·30							
	73	720	6·30							
	74	700	6·15							
	75	680	5·45							
	76	660	5·45							
	77	640	6·00							
	78	620	6·15							
	79	600	6·15							
	80	580*	6·15							
	81	560	6·15							
	82	540	6·00							

REMARKS:-

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 480 (NO2 OREBODY) Date Surveyed 11/11/70

Total Depth 1025' Depth Surveyed To 610'

Casing Depth 188' Surveyed By V. H. FREESTONE

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
20	0 45	0 45	·9999 / ·0131	19.998	19.998	0.262							
	0 45												
40	2 15	2 15	·9992 / ·0393	19.984	39.982	0.786							
	2 15												
60	3 45	3 30	·9981 / ·0610	19.962	59.944	1.220							
	3 15												
80		4 15	·9973 / ·0741	19.946	79.890	1.482							
	4 15												
100	4 45	4 37½	·9967 / ·0802	19.934	99.824	1.604							
	4 30												
120	4 45	4 37½	·9967 / ·0802	19.934	119.758	1.604							
	4 30												
140	5 10	4 45	·9966 / ·0828	19.932	139.690	1.656							
	4 30												
160	5 0	4 45	·9966 / ·0828	19.932	159.622	1.656							
	4 30												
180	5 10	5 10	·9962 / ·0872	19.924	179.546	1.744							
					TOTAL DEFL	12.014	N27W	N27W	·8910 / ·4540	10.7045	5.4544	10.70	5.45
280	5 10	4 45	·9966 / ·0828	19.932	199.478 60.80	1.656	N27½W	N29¼W	·8725 / ·4886	1.4449	·8091	3.70 12.14	1.91 6.26
	4 30						N31W						
220	4 45	4 30	·9969 / ·0785	19.938	219.416	1.570	N24W	N27W	·8910 / ·4540	1.3989	·7128	13.54	6.97
	4 15						N30W						
240	4 30	4 30	·9969 / ·0785	19.938	239.354	1.570	N24W	N26W	·8988 / ·4384	1.4111	·6883	14.95	7.66
	4 30						N28W						
260	4 30	4 30	·9969 / ·0785	19.938	259.292	1.570	N23W	N27W	·8910 / ·4540	1.3989	·7128	16.35	8.37
	4 30						N31W						
280	4 45	4 45	·9966 / ·0828	19.932	279.224	1.656	N25W	N28½W	·8788 / ·4772	1.4553	·7902	17.81	9.16
	4 45						N32W						

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 400 (No. 2 OREBODY) Date Surveyed 11/11/70
Total Depth 1025' Depth Surveyed To 610'
Casing Depth 188' Surveyed By V. H. FREESTONE

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
300	4 45	4 52½	.9964 .0830	19.928	299.152	1.700	N24W	N28W	.8829 .4695	1.5089	.7984	19.31	8.96
	5 0				91.18		N32W					5.89	3.04
320	4 45	4 45	.9966 .0828	19.932	319.084	1.656	N23W	N26W	.8988 .4384	1.4884	.7260	20.80	10.09
	4 45						N29W						
340	4 45	4 52½	.9964 .0850	19.928	339.012	1.700	N23W	N24W	.9135 .4067	1.5530	.6914	22.35	16.38
	5 0						N25W						
360	4 30	4 45	.9966 .0828	19.932	358.944	1.656	N21W	N23W	.9205 .3907	1.5248	.6470	23.87	12.09
	5 0						N25W						
380	4 15	4 30	.9969 .0785	19.938	378.882	1.570	N20W	N22½W	.9239 .3827	1.4505	.6008	25.32	8.67
	4 45						N25W						
400	4 15	4 30	.9969 .0785	19.938	398.820	1.570	N20½W	N21¼W	.9320 .3624	1.4632	.5690	26.78	4.02
	4 45				121.56		N22W					8.16	
420	4 15	4 30	.9969 .0785	19.938	418.758	1.570	N21W	N24W	.9135 .4067	1.4342	.6385	28.21	12.84
	4 45						N27W						
440	4 45	4 45	.9966 .0828	19.932	438.690	1.656	N19W	N22W	.9272 .3746	1.5354	.6203	29.75	14.46
	4 45						N25W						
460	4 45	4 45	.9966 .0828	19.932	458.622	1.656	N19W	N20½W	.9367 .3502	1.5512	.5799	31.30	15.02
	4 45						N22W						
480	4 45	4 45	.9966 .0828	19.932	478.554	1.656	N23W	N22½W	.9239 .3827	1.5300	.6338	32.83	15.67
	4 45						N22W						
500	5 15	5 15	.9958 .0915	19.916	498.470	1.830	N29W	N27W	.8910 .4540	1.6305	.8308	34.46	16.50
	5 15				151.93		N25W					10.50	4.92
520	5 30	5 22½	.9956 .0936	19.912	518.382	1.872	N30W	N27½W	.8870 .4617	1.6605	.8643	36.12	17.36
	5 15						N25W						
540	6 0	5 52½	.9947 .1023	19.894	538.276	2.046	N31W	N28½W	.8788 .4772	1.7860	.9764	37.92	18.34
	5 45						N26W						
560	6 15	6 15	.9944 .1089	19.882	558.164	2.178	N30W	N27W	.8910 .4540	1.9406	.9888	39.86	19.33
	6 15						N24W						

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 480 (NO. 2 OREBODY) Date Surveyed 11/11/70

Total Depth 1025' Depth Surveyed To 610

Casing Depth 188' Surveyed By V. H. FREESTONE

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
580	6 15	6 45	.9941 / .1089	19.882	578.040	2.178	N29W	N29W	.8746 / .4848	1.9049	1.0539	41.76	[illegible]
600	6 15	6 15	.9941 / .1089	19.882	597.922 (162.25)	2.178	N30W	N30W	.8660 / .5000	1.8866	1.0890	13.30 / 43.65	6.55 / [illegible]
610	6 0	6 0	.9945 / .1045	9.945	607.867	1.045	N30W	N30W	.8660 / .5000	0.9250	.5225	44.55	6.71 / [illegible]
					The survey was discontinued at this point due to a cave-in at 610'. The instrument was then lowered through the drill rods from 500' to 1000'. Because of the agreement of the drift angles from 500' to 600' in each run, the values shown above have been used. The values shown below are from the second run through the drill pipes, for which a bearing has been assumed.								
16/11/70.													
620	6 30	6 22½	.9938 / .1111	19.930	617.805	1.111							
	6 15												
640	6 15	6 7½	.9943 / .1067	19.886	637.691	2.134							
	6 00												
660	6 00	5 52½	.9947 / .1023	19.894	657.585	2.046							
	5 45												
680	6 00	5 52½	.9947 / .1023	19.894	677.479	2.046							
	5 45												
700	6 30	6 22½	.9938 / .1111	19.876	697.355 (212.55)	2.222							
	6 15												
720	6 30	6 30	.9936 / .1132	19.872	717.227	2.264							
	6 30												
740	6 30	6 30	.9936 / .1132	19.872	737.099	2.264							
	6 30												
760	7 00	7 00	.9925 / .1219	19.850	756.949	2.438							
	7 00												

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 480 (No. 2 orebody) Date Surveyed 11-16/19/70.

Total Depth 1025' Depth Surveyed To 1000'.

Casing Depth 188' Surveyed By P. J. RICE

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/[redacted]	Co-Ords. [redacted]/W	Sum of Co-Ords. N/[redacted]	Sum of Co-Ords. [redacted]/W
780	7 00	6 52½	.9934 / .1147	19.868	776.817	2.394							
	6 45												
800	6 45	6 45	.9931 / .1175	19.862	242.463 776.679	2.350							
	6 45												
820	7 15	7 7½	.9922 / .1241	19.844	816.523	2.482							
	7 00												
840	7 15	7 22½	.9917 / .1283	19.834	836.357	2.566							
	7 30												
860	7 45	7 [illegible]	.9909 / [illegible]	19.818	856.175	2.648							
	7 45												
880	8 00	8 00	.9903 / .1392	19.806	875.981	2.784							
	8 00												
900	8 30	8 22½	.9893 / .1456	19.786	273.03 895.7[illegible]	2.912							
	8 15												
920	8 45	8 37½	.9867 / .1499	19.774	915.541	2.998							
	8 30												
940	9 00	8 52½	.9850 / .1542	19.760	935.301	3.084							
	8 45												
960	9 00	9 00	.9877 / .1564	19.754	955.055	3.128							
	9 00												
980	9 00	9 00	.9877 / .1564	19.754	974.809	3.128							
	9 00												
1000	9 00	9 00	.9877 / .1564	19.754	303.14 994.563	3.128							
	9 00				TOTAL DEFL. FROM 500'	50.177		N28½W (assumed)	.8768 / .4972	44.085	23.9445	27.02 88.65	14.00 45.94

DDH 400 (DOLPHIN 0/A)

Total depth 1025'

Surveyed to 1000'

Date surveyed 11 - 16/11/70

Surveyed by: V.M. Freestone.

Replotted 1:500 scale, 13/8/71

by S.L. BUCKLAND

TSG. N.

MAG. N.

TSG. N

V10°E

50m/in

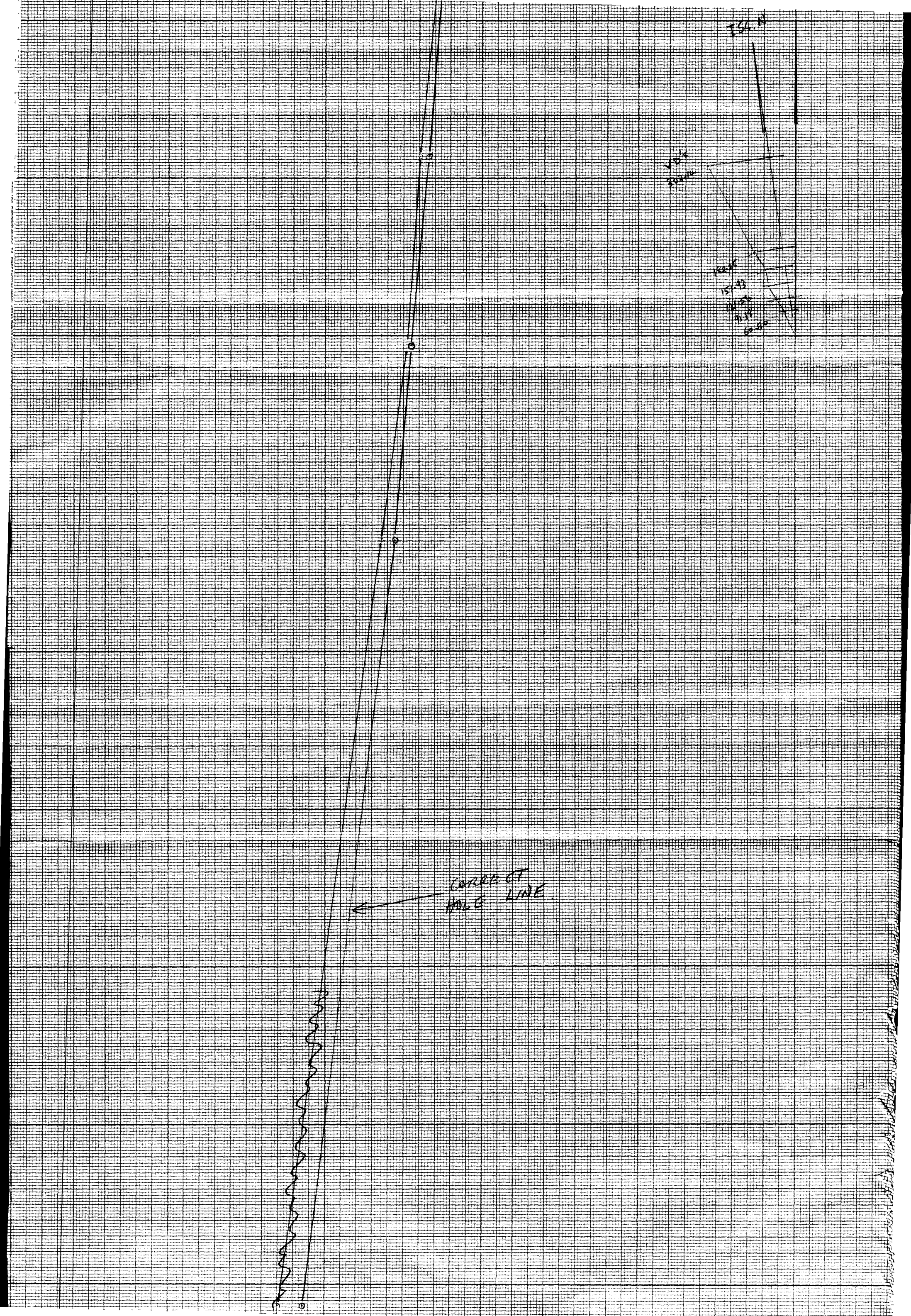
168.25

151.43

121.50

91.16

60.80


CORRECT
HOLE LINE.

400. W E N S

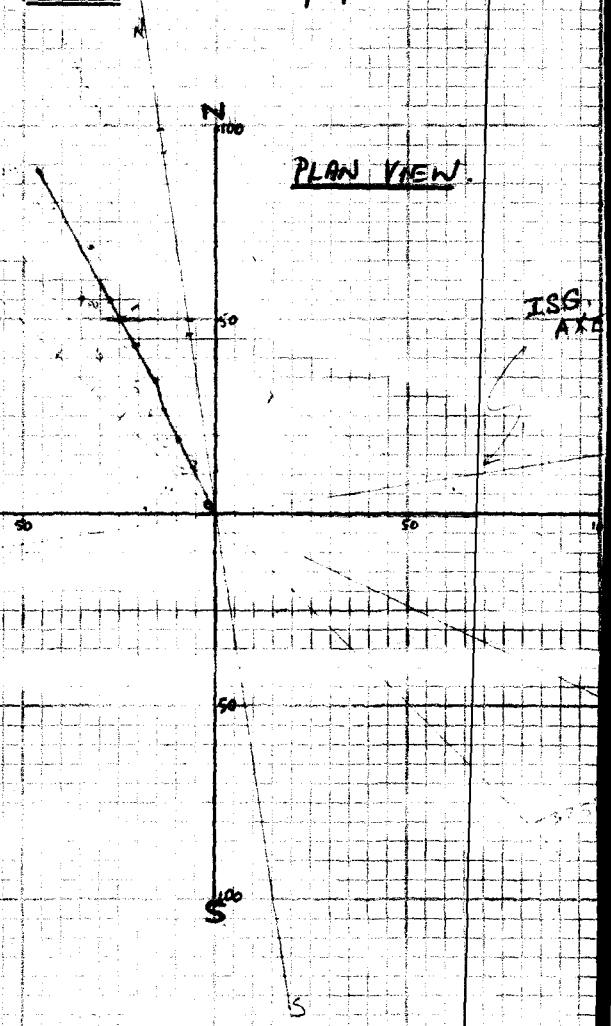
DDH 400. (NO. 2. OREBODY)

TOTAL DEPTH. 1025'

DEPTH SURVEYED TO 1000'

CASING DEPTH. 185'

DATE 11-16/11/70.



300

400

500

600

700

ISG
AT

Scale 1" = 50'

DEFLECTION IN FEET 1" = 50'

OPEN CUT

98599.9 E 100047.80N LINE 22

167.2 M.D.

4/11/70

20/11/70

189'

23/11/70

N.R. Kinnane.

I.S.G. Co-ords : 219,228·8 E
564,286·1 N.

R.L. = 54·8 m

DIAMOND DRILL HOLE 339

SAMPLE	DISTANCE FROM	DISTANCE TO	LENGTH (METRES)	WIDTH	ASSAY	
	32	42.5	10.5	1		
A 427[illegible]	42.5	44.5	2.0	2.0	0.12	0.210
4276	44.5	46.5	2.0	2.0	0.08	0.012
4277	46.5	48.5	2.0	2.0	0.08	0.010
4278	48.5	50.5	2.0	2.0	0.14	0.01
4279	50.5	52.5	2.0	2.0	0.63	0.011
4280	52.5	54.5	2.0	2.0	0.39	0.01
4281	54.5	56.5	2.0	2.0	0.08	0.01
4282	56.5	58.5	2.0	2.0	0.07	0.01
4283	58.5	60.5	2.0	2.0	0.05	0.012
4284	60.5	62.5	2.0	2.0	0.05	0.01
4285	62.5	64.5	2.0	2.0	0.14	0.010
4286	64.5	66.5	2.0	2.0	0.10	0.01
4287	66.5	68.5	2.0	2.0	0.04	0.01
4288	68.5	70.5	2.0	2.0	0.17	0.01
4289	70.5	72.5	2.0	2.0	0.08	0.030
4290	72.5	74.5	2.0	2.0	0.07	0.053
4291	74.5	76.5	2.0	2.0	0.08	0.010

GEOLOGICAL DESCRIPTION

NO CORE
0' - 32' 9.8

No Core

GRANITE
32-42.4' 12.9

Granite, fine grained to medium grained highly oxidised and altered grey granite. Much core loss.

GARNETH/Gph
42.5' to 49'
14.9

Garnet/Garnet-Pyroxene Hornfels; highly oxidised garnet skarns containing minorscheelite 30° 60°
Joints predominantly chlorite filled withmuch clay.

Gph
49' to 61'
18.6

Garnet/Pyroxene Hornfels; medium to coarse grained green-brown rock relatively un-jointed until 54'.
From 54' to 56' shear zone at 0-35° 40°
calcite filled. Joints calcite filled.
Minor scheelite mineralisation throughout.

Gph/Bh/Ph/Gh
61' to 75'
22.9

Biotite/Pyroxene/Garnet/Garnet-Pyroxene Hornfels
a well banded and bedded rock predominantly garnet bands grading into Biotite and Pyroxene bands. Good disseminated Scheelite throughout Bedding at 60-65° 0° 40°
Joints chlorite and calcite filled 60-65°

Bh/Ph
75' to 92'
28.0

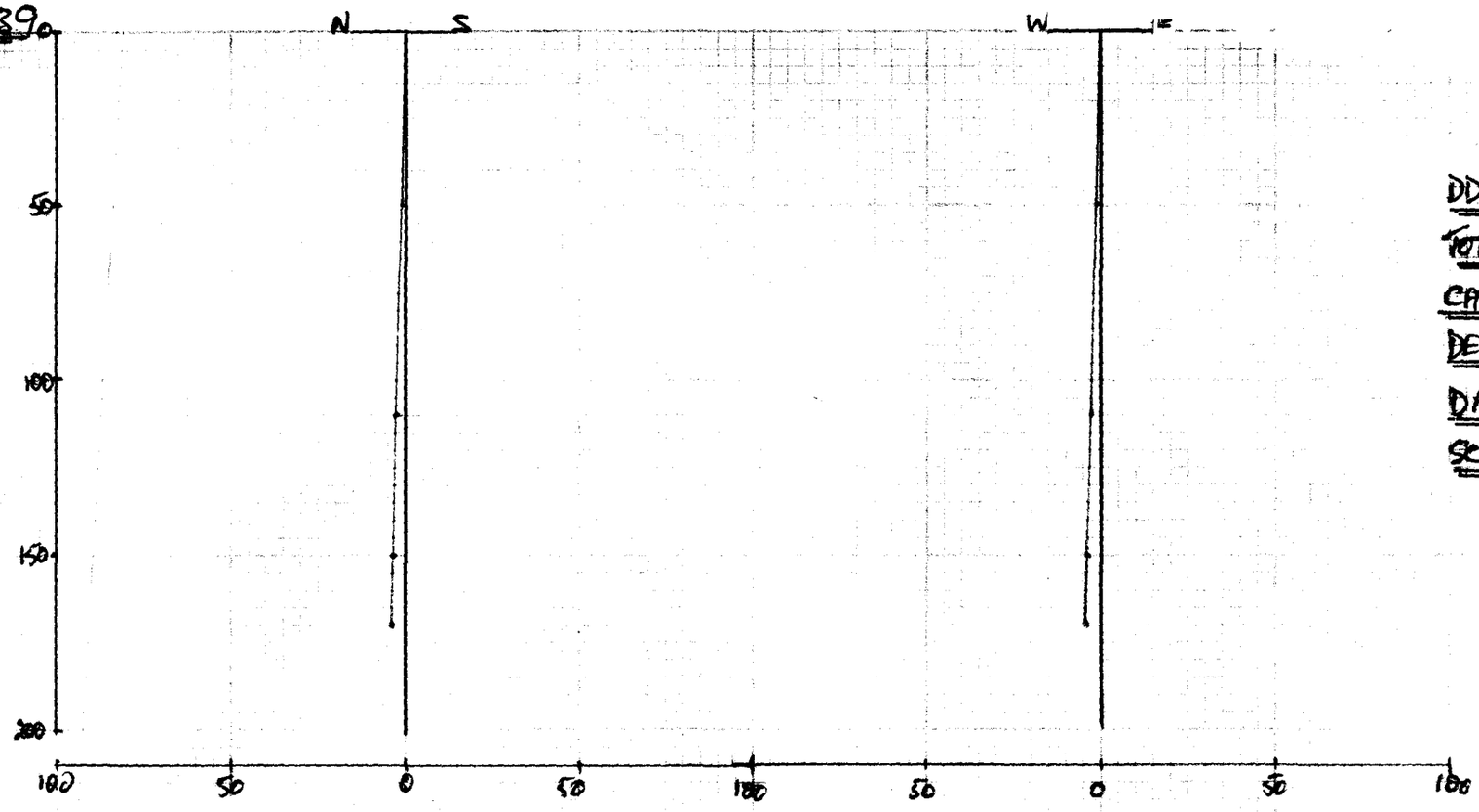
Biotite/Pyroxene Hornfels; in main a fine grained well bedded series of biotite and pyroxene rich rocks with some calcite and garnet bands.
Bedding at 65°. Joints chlorite and calcite 0° 30° 60°
filled with minor scheelite.

GRANITE:
92' to 197'
57.0

Granite medium to coarse grained grey and cream porphyritic granite. Shear at 92' at 30°. Calcite and chlorite filled.
From 99' to 103' 0-10' Clinohumite filled shear. From 117' to 124' 0-10' Calcite and clinohumite filled shear. 0-10° 45°
Joints calcite and clinohumite filled 60°
From 124' Joints 15-20° 45°
At 147' rock becomes sericitic, chlorite rich in pyrite - up to ¼".

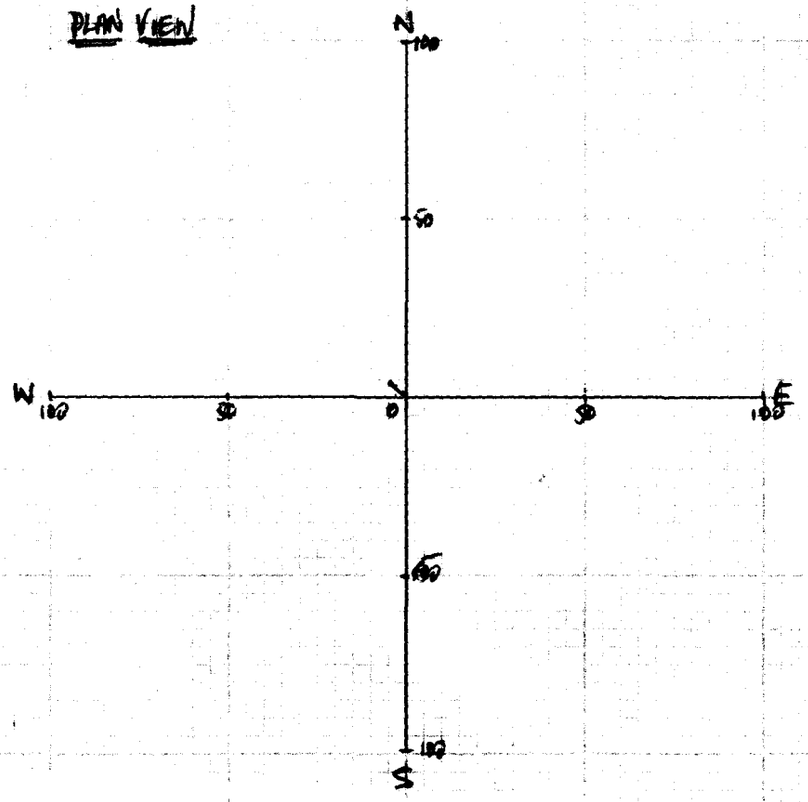
END OF HOLE 197'

DDH 339



DDH. 339
TOTAL DEPTH 187'
CASING DEPTH. 40'
DEPTH SURVEYED TO 170'
DATE 28/11/70
SCALE 1" = 50'

PLAN VIEW



1 of 1.

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 339. Date Surveyed 23/11/70.
Total Depth 187 Depth Surveyed To 170'
Casing Depth 40' Surveyed By P. J. RICE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN				22	50	2·00	N43W
	1	"				23	30	—	
	2	CLOSED				24	10 (now)		
	3	"				25	CLOSED		
	4	10	2·00			26	"		
	5	10 (now)	2·00			27	"		
	6	30	2·00			28	"		
	7	50	2·15	N43W		29	"		
	8	70	2·15	N51W		30	"		
	9	90	2·00	N46W		31	open		
	10	110	2·00	N49W		3	"		
	11	110	2·00	N50W					
	12	130	2·00	N58W					
	13	150	2·15	N54W					
	14	170	2·00	N55W					
	15	170	2·00	N56W					
	16	170	2·00	N56W					
	17	150	2·15	N52W					
	18	130	2·15	N54W					
	19	110	2·00	N50W					
	20	90	2·00	N46W					
	21	70	2·15	N48W					

REMARKS:-

Sheet No. 1. of 1.

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 339 Date Surveyed 23/11/70

Total Depth 187' Depth Surveyed To 170'

Casing Depth 40' Surveyed By P. J. RICE

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/[redacted]	Co-Ords. [redacted]/W	Sum of Co-Ords. N/[redacted]	Sum of Co-Ords. [redacted]/W
10	2 00	2 00	.9994 / .0349	9.994	9.994	0.349							
	2 00												
30	2 00	2 00	.9994 / .0349	19.988	29.982	0.698							
						1.047	(Adj)	N50W	.6428 / .7660	.6730	.8020	0.67	0.80
50	2 15	2 7½	.9993 / .0371	19.986	49.968	0.742	N43W	N43W	.7314 / .6820	.5427	.5060	1.21	1.31
	2 00						N43W						
70	2 15	2 15	.9992 / .0393	19.984	69.952	0.786	N51W	N47½W	.6494 / .7604	.5104	0.5977	1.72	1.91
	2 15						N48W						
90	2 00	2 00	.9994 / .0349	19.988	89.940	0.698	N46W	N46W	.6947 / .7193	.4849	0.5021	2.20	2.41
	2 00						N46W						
110	2 00	2 00	.9994 / .0349	19.988	109.928	0.698	N50W	N50W	.6428 / .7660	.4487	.5347	2.65	2.94
	2 00						N50W						
130	2 00	2 7½	.9993 / .0371	19.986	129.914	0.742	N58W	N56W	.5592 / .8290	.4149	.6151	3.06	3.56
	2 15						N54W						
150	2 15	2 15	.9992 / .0393	19.984	149.898	0.786	N54W	N53W	.6018 / .7986	.4730	.6277	3.53	4.19
	2 15						N52W						
170	2 00	2 00	.9994 / .0349	19.988	169.886	0.698	N56W	N56W	.5592 / .8290	.3903	.5786	3.92	4.77
	2 00						N56W						

OPEN CUT WEST END

98773.4 E 100,041.1 N LINE 21

175.3 (M.D.)

27/10/'70

3/11/'70

215'

4/11/'70

N.R. Kinnane.

I.S.G. Co-ords: 219,280.9 E
564,276.4 N
R.L. = 567 m.

DIAMOND DRILL HOLE 338

30	50	20	15
50	60	10	9

0-30' 9.14 No Core

Gph
30-50' 15.24 Garnet Pyroxene Hornfels oxidised and rubbly farnet and garnet-pyroxene skarns with little visible scheelite. Joints clay filled. 0°, 30°
Rock appears to be highly oxidised equivilent of the typical medium grained green-brown garnet skarns.

Bh/Ph
50-102' 31.1 Biotite/Pyroxene Hornfels well banded and bedded sequence of fine grained black, grey and green rocks. Bedding at 40° to 45° with 0 & 30° minor local variations along micro-faulting 40°-45°
Joints calcite and chlorite filled.
Bedding flattens to 50° locally.
A set of joints approx. right angles to the bedding at 30°.
From 82' to 84' a garnet band with about 3" of fine disseminated scheelite.
From 94' bedding at 90° often flat lying with local steeping.

Granite
102 — Granite medium grained to coarse grained grey & pink porphyritic granite locally pyroxene and biotite rich. 30°, 45°
Shear zone at 111' 0°
Set of joints at 0° increases in frequency down the hole.

END OF HOLE AT 215'

DH. Nº 338

W E N S

N

W E

S

DDH. Nº 338 (NO. 1 OREBODY)
DATE SURVEYED - 4/11/70
TOTAL DEPTH - 215'
DEPTH SURVEYED TO - 200'
CASING - 60'

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 338 Date Surveyed 4/11/40

Total Depth 215' Depth Surveyed To 200'

Casing Depth 60' Surveyed By V.M. FREESTONE.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN Closed				36	140	1 15	N 44 W
	1	"				37	120	1 0	N 40 W
	2	"				38	100	1 0	N 27 W
	3	CLOSED OPEN				39	80	1 0	N 25 W
	4	"				40	60	1 0	N 25 W
	↓	"				41	40	0 45	
	20	"				42	20	0 45	
	21	"				43			
	22	20	1 15	N 5 E		44			
	23	40	1 15	N 37 E		45			
	24	60	1 30	N 51 W		46	CLOSED		
	25	80	1 30	N 60 W		47	OPEN		
	26	100	1 15	N 50 W					
	27	100	1 15	N 50 W					
	28	120	1 30	N 53 W					
	29	140	1 15	N 51 W					
	30	160	1 0	N 54 W					
	31	180	1 0	N 40 W					
	32	200	1 15	N 35 W					
	33	200	1 15	N 35 W					
	34	180	1 15	N 24 W					
	35	160	1 0	N 44 W					

REMARKS:-

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 338 Date Surveyed 4/11/70

Total Depth 215' Depth Surveyed To 200'

Casing Depth 60' Surveyed By V.M. FREESTONE.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
20	1 15	1 0	0.9998 / 0.0175	19.996	19.996	0.350							
	0 45												
40	1 15	1 0	0.9998 / 0.0175	19.996	39.992	0.350							
	0 45												
60	1 30	1 15	0.9998 / 0.0218	19.996	59.988	1.136 / 0.436	N51W	N38W	0.7880 / 0.6157	0.8952	0.6994	0.8952	0.6994
	1 0						N25W						
80	1 30	1 15	0.9998 / 0.0218	19.996	79.984	0.436	N60W	N43½W	0.7256 / 0.6884	0.3163	0.3001	1.2115	0.9995
	1 0						N25W						
100	1 15	1 7½	0.9998 / 0.0197	19.996	99.980	0.394	N50W	N38½W	0.7826 / 0.6226	0.3083	0.2453	1.5198	1.2448
	1 0						N27W						
120	1 30	1 15	0.9998 / 0.0218	19.996	119.976	0.436 / 0.436	N53W	N46½W	0.6884 / 0.7254	0.3001	0.3163	1.8199	1.5611
	1 0						N40W						
140	1 15	1 15	0.9998 / 0.0218	19.996	139.972	0.436	N51W	N48¾W	0.6626 / 0.7490	0.2889	0.3266	2.1088	1.8877
	1 15						N46W						
160	1 0	1 0	0.9998 / 0.0175	19.996	159.968	0.350	N54W	N51½W	0.6225 / 0.7826	0.2179	0.2739	2.3267	2.1616
	1 0						N49W						
180	1 0	1 7½	0.9998 / 0.0197	19.996	179.964	0.394	N40W	N38W	0.7880 / 0.6157	0.3105	0.2426	2.6372	2.4042
	1 15						N36W						
200	1 15	1 15	0.9998 / 0.0218	19.996	199.960	0.436	N35W	N36W	0.8092 / 0.5236	0.3572	0.2501	2.9944	2.6543

OPEN CUT WEST END.

98931.18 E 100 051.70N LINE 20

156.2

24/10/70

11/11/70

312

20/11/70

N.R. Kinnane.

I.S.G Co-ords: 219,328·9 E
564,272·7 N
R.L. = 50·9 m

...MITED, KING ISLAND.

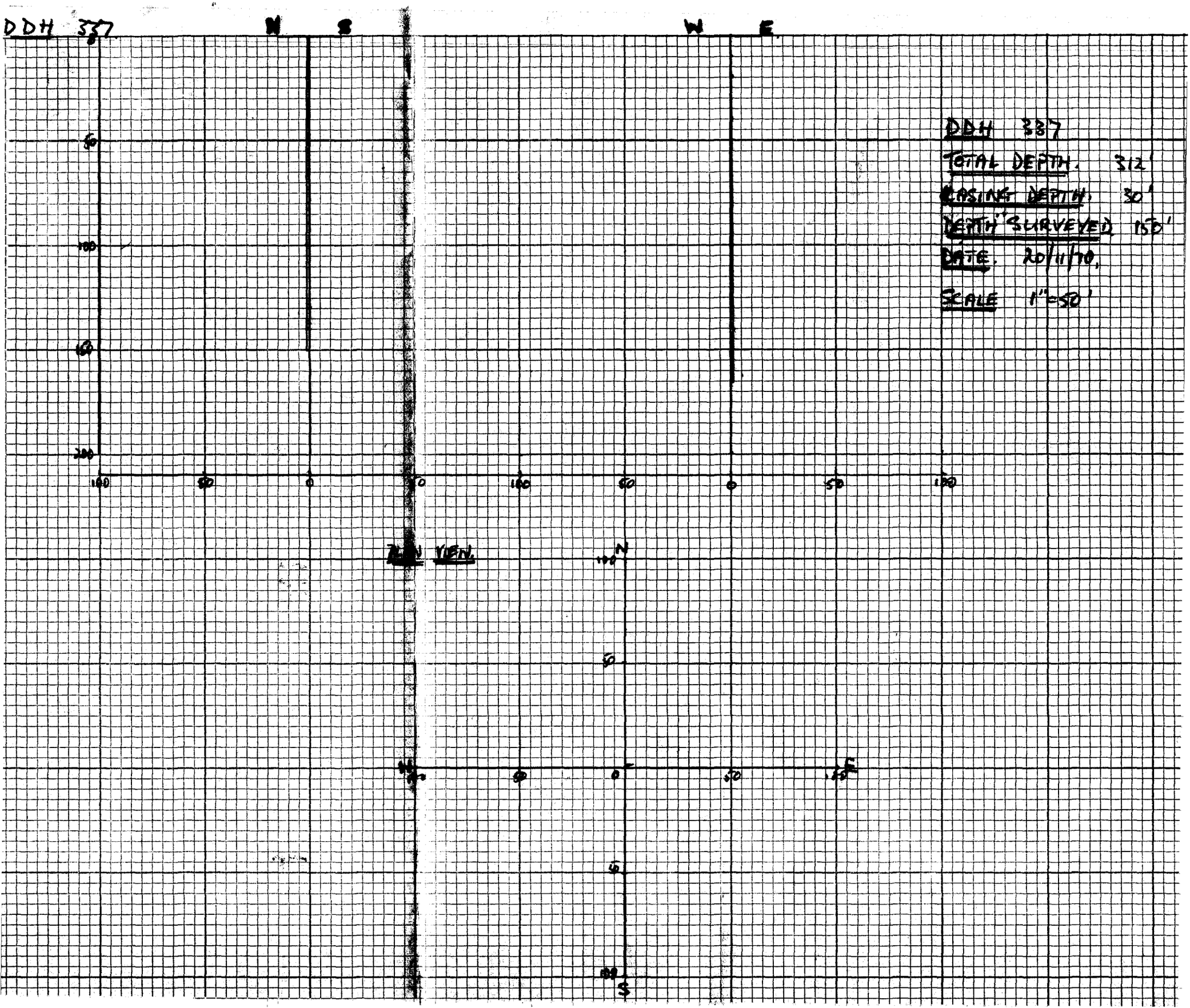
DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	NOTE	ASSAY
		DIAMOND DRILL HOLE 337		
0	20	20	2	
20	47	27	13	
47	51	4	3	
51	57	6	3	
57	67	10	0	
67	71	4	3	
71	77	6	3	
93	95	2	1	
95	99	4	1	
99	101	2	1.5	
101	103	2	1.5	

DRILL HOLE No 337

	GEOLOGICAL DESCRIPTION	
GRANITE 0' to 67'	Granite highly oxidised and broken rubbly ground consisting of medium grained grey granite with minor scheelite. The rock is highly fractured and broken with much core loss.	
Bh/Ph 67' to 142'	Biotite/Pyroxene Hornfels banded and well bedded sequence of fine grained grey and green hornfels: Bedding veins from 40° to 60°. Average at 50°. From 99' to 101' Granite dyke From 126' onwards bedding lies at 60 to 65° varying a few degrees in places 137' to 142' medium grained granitic dyke Bedding remains steep to 142'.	40°-60° 65° &
Bh/Ph/Gh 142' to 200'	Biotite/Pyroxene/Granet Hornfels numerous bands of coarse grained grossular garnet with predominantly biotite and pyroxene bands. The garnet bands tend to be very irregular. Bedding at 60° varies in places to 70° Aplite at 182' to 200' medium to coarse grained with joints at 40° & 70°.	65°
QUARTZITE 200' to 207.5 61' 63.3	Quartzite fine grained grey highly siliceous rock well jointed and slightly banded. Joints clay filled.	50° &
GRANITE 207.5' to 312'	Granite fine grained to coarse grained grey to cream granite. Shear at 235.5' at 30°. Rock becomes very porphyritic below 260°	70°

END OF D.D.H. 337 AT 312'

DDH 337



DDH 337
TOTAL DEPTH. 312'
CASING DEPTH. 30'
DEPTH SURVEYED 150'
DATE. 20/11/70.
SCALE 1"=50'

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 337 Date Surveyed 20/11/70
Total Depth 312' Depth Surveyed To 150'
Casing Depth 30' Surveyed By P.V. RICE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN				22	40	1.00	N5E
	1	"				23	20	1.00	2
	2	"				24	10(pm)	—	—
	3	CLOSED				25	CLOSED		
	4	CLOSED(auto)				26	"		
	5	10 (pm)	1.15			27	"		
	6	20	-			28	open		
	7	40	1.15	N65E					
	8	60	1.15	N62E					
	9	80	0.45	N73E					
	10	100	0.45	N74E					
	11	100	0.45	N74E					
	12	120	0.45	N7E					
	13	140	0.45	N9W					
	14	150	0.30	N60W					
	15	150	0.30	N54W					
	16	150	0.30	N54W					
	17	140	0.30	N22E					
	18	120	0.45	N44E					
	19	100	0.45	N37E					
	20	80	0.45	N45E					
	21	60	1.80	N60E					

REMARKS:-

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 337 Date Surveyed 20/11/70

Total Depth 312' Depth Surveyed To 150'

Casing Depth 30' Surveyed By P.T. RICE

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
10	1 15	1 15	.9998 / .0218	9.998	9.998	0.218							
20	—	1 00	.9998 / .0175	9.998	19.996	0.175							
	1 30				DEPL. TOTAL	0.393	ON	N45E	.7071 / .7071	.2779	.2779	.28	.28
40	1 15	1 7½	.9998 / .0196	19.996	39.992	0.392	N65E	N61E	.4848 / .8746	.1900	.3428	.47	.62
	1 00						N57E						
60	1 15	1 7½	.9998 / .0196	19.996	59.988	0.392	N62E	N61E	.4848 / .8746	.1900	.3428	.66	.96
	1 00						N60E						
80	0 45	0 45	.9999 / .0131	19.998	79.986	0.262	N73W	N59E	.5150 / .8572	.1349	.2246	.79	1.18
	0 45						N45E						
100	0 45	0 45	.9999 / .0131	19.998	99.984	0.262	N74E	N55½E	.5664 / .8241	.1484	.2159	.94	1.39
	0 45						N37E						
120	0 45	0 45	.9999 / .0131	19.998	119.982	0.262	N7E	N25½E	.9026 / .4305	.2365	.1128	1.18	1.50
	0 45						N44E						
140	0 45	0 37½	.9999 / .0109	19.998	139.980	0.218	N9W	N6½E	.9936 / .1132	.2166	.0247	1.40	1.52
	0 30						N22E						
150	0 30	0 30	1.0000 / .0087	10.000	149.980	0.087	N60W	N57W	.5446 / .8387	-.0174	-.0130	1.35	1.45
	0 30						N54W						

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 336

0' - 50' No Core

50' - 53' RUBBLY CORE

Rubbly broken core highly fractured and jointed with some biotite/pyroxene hornfels and Aplite.

53' - 63' 5" GARNET PYROXENE HORNFELS

Medium grained green brown garnet pyroxene rock. Rock has few joints, joints calcite and chlorite filled. Good disseminated scheelite throughout.

63' 5" - 108' 5" BANDED BIOTITE/PYROXENE HORNFELS

Some garnet rock and garnet-pyroxene bands. Joints chlorite filled with some clay. Bedding axis from 30° to 60° and often in strongly disturbed. Bedding becomes more regular at 65° further down the hole.

90.0 - 91.0 m Aplite
103.5 - 106.5 "

Bedding plane joints common - calcite filled few garnet beds below 90.0 m

108' 5" - 123' APLITE

Fine grianed to medium grained aplite/granite dyke, great variation in grain size.

123' - 168' BIOTITE HORNFELS/PYROXENE HORNFELS

Well bedded fine grained rocks strongly jointed. Joints chlorite and clay filled. Much evidence of minor faulting.

125.0 - 127.0 Aplite
145.0 - 125.5 Aplite

Bedding unaltered - minor garnet bands appear in places.

168' - 172' BIOTITE/PYROXENE/GARNET HORNFELS

Some minor garnet bands, the bulk consists of Biotite and Pyroxene bands. Bedding at 40° with local steepening
Joints often 11 bedding.
Joints calcite filled.

172' - 174' GREEN SCHIST

Schistose and foliated green rock highly weathered and chloritised
Bedding at 40°, bedding plane joints common with calcite filled.

GEOLOGY - KING ISLAND SCHEELITE

GEOLOGICAL LOG

D.D.H. No. D 336

174' - 222' BIOTITE/PYROXENE/GARNET HORNFELS

Garnet hornfels becomes more abundant further down the hole. Rock highly jointed predominantly bedding plain joints at 40°. Joints chlorite, calcite and clay filled. After 208.0 bedding changes to: 70° - 90°. With major variation. Garnet is more numerous from 188.0 onwards. Minor isolated scheelite crystals.

222' - 230' GRANITE

Medium to coarse grianed granite dyke with numerous joints.

230' - 251' BIOTITE/PYROXENE HORNFELS

Banded and well bedded biotite and pyroxene rich rock with minor bands of garnet.

232.5 - 233.0 m Aplite
236.0 - 237.0 "

251' - 286' GRANITE

A medium to coarse grained dyke with numerous calcite, chlorite and clay filled dykes.

286' - 258' QUARTZITE

Fine grained grey rock well jointed, joints chlorite and clay filled. Minor granite/aplite veins. Highly brecciated ground at 326.0 to 329.0 m A zone of probable decomposed granite material from 336.5 - 339.0 m Minor shearing at 245.0 - 246.0 with calcite veining.

358' - 460' GRANITE

Medium grained grey granite, well jointed with calcite and chlorite and clinohumite filled joints. A set of joints at 0° occurs at 395.0 and 403.0 m.

A highly decompised zone at 406.0 with an abundant green mineral possibly sericitised mica and pyroxene. Further down the hole the granite becomes coarse and porphyritic 0° shear at 431.0 - 432.0 m. Calcite and chlorite filling.

EOH 460

GEOLOGY - KING ISLAND SCHEELITE

ASSAY DATA

D.D.H. No. D 336

SAMPLE NO.	DEPTH (METRES)				ELEMENTS			COMMENTS
	From	To	Length	Length Rec.	WO_3	Mo		
D 4041	51	53	1.0	1.0	0.06	0.001		
42	53	55	"	"	0.20	0.012		
43	55	57	"	"	0.35	0.016		
44	57	59	"	"	0.35	0.016		
45	59	61	"	"	0.33	0.015		
46	61	63	"	"	0.31	0.016		
47	63	65	"	"	0.23	0.014		
48	65	67	"	"	0.04	0.014		
49	67	69	"	"	0.05	0.013		
50	69	70	"	"	0.10	0.013		

SPECIFIC GRAVITY

Depth (metres):

Rock Type:

S.G.:

Determined by:

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 336 Date Surveyed 22/10/70

Total Depth 460' Depth Surveyed To 340

Casing Depth 54' Surveyed By W. M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN				22	290		
	1	OPEN				23	310	2 0	S 40 W
	2	OPEN				24	330	2 15	S 45 W
	3	CLOSED				25	Moving		S 37 W
	4	"				26	Moving		
	5	"				27	340	2 15	S 37 W
	6	"				28	340		
	7	Moving				29	340		
	8	10 (Moving)				30	Moving		
	9	30	1 0	N 30 W		31	330	2 15	S 44 W
	10	50	0 45	S 10 E		32	310	2 15	S 40 W
	11	70	1 0	[illegible]		33	290	2 0	S 36 W
	12	90		S 80 E		34	270	1 30	S 55 W
	13	110		N 30 E		35	250	1 45	S 50 W
	14	130	0 0			36	230	1 15	S 66 W
	15	150	0 15	S 25 W		37	210	1 0	S 66 W
	16	170	0 45	S 35 W		38	210	1 0	S 62 W
	17	190		S 57 W		39	190	1 0	S 51 W
	18	210	1	S 66 W		40	170	0 [illegible]	S 45 W
	19	230		S 60 W		41	150	0 0	1
	20	250	1 45	S 50 W		42	130	0 15	N 80 E
	21	270				43	110	0 30	N 55 E

REMARKS:- "Cave-In" just below 340'

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 336 Date Surveyed 22/10/70

Total Depth 460' Depth Surveyed To 340'

Casing Depth 54' Surveyed By V. M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
	44	90	0 45	S 80 E						
	45	70	1 15	S 85 E						
	46	50	1 15							
	47	30	1 0							
	48	10	(Moving)							
	49	10	1 0							
	50	CLOSED								
	51	"								
	52	"								
	53	"								
	54	OPEN								
	55	"								

REMARKS:-

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 336 Date Surveyed 22/10/70

Total Depth 460 Depth Surveyed To 340

Casing Depth 54 Surveyed By V. M. FREESTONE

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
30	1 0	1 0	0.9998 0.0175	29.994	29.994	0.525	N30						
	1 0												
50	0 45	1 0	0.9998 0.0175	49.986	49.986	0.350	S40E						
	1 15												
	1 0	1 7½	0.9998 0.0175	69.986	69.986	1.269 1.314	S8E	S85E	0.9872 0.9962	S 0.1101	E 1.2642	S 0.1101	E 1.2642
	1 15						S8E						
90		0 45	0.9999 0.0131	89.994	89.994	0.262	S80E	S80E	0.1736 0.1305	0.0455	0.2580	0.1556	1.5222
	0 45						S80E						
110		0 30	1.0000 1.0087	109.994	109.994	0.174	N80E	N52½E	0.6156 0.7826	N 0.1059	E 0.1381	0.0497	1.6603
	0 30						N80E						
130	0 0	0 7½	1.0000 1.0087	129.994	129.994	0.044		N2E	0.9960 0.9962	0.1381	0.0220	0.0116	1.6823
	0 15						N30E						
150	0 15	0 7½	0.9999 0.0087	149.994	149.994	0.044	S25W	S25W	0.9063 0.9659	S 0.0399	W 0.0186	0.0615	1.6637
	0 0												
170	0 45	0 7½	0.9999 0.0087	169.992	169.992	0.218	S35W	S50W	0.6428 0.7660	0.1401	0.1670	0.1916	1.4967
	0 30						S45W						
190		1 0	1.0000 1.0175	189.976	189.976	0.350	S57W	S64W	0.4378 0.4540	0.2067	0.2831	0.3973	1.2136
	1 0						S61W						
210		1 0	0.9998 0.0175	209.976	209.976	0.350	S66W	S65½W	0.4067 0.4384	0.1461	0.3185	0.5434	0.8951
	1 0						S66W						
230		1 15	0.9997 0.0218	229.976	229.976	0.436	S60W	S52W	0.5460 0.6572	0.2245	0.3737	0.7669	0.5214
	1 15						S68W						
250	1 45	1 45	0.9995 0.0305	249.960	249.960	0.610	S50W	S50W	0.6428 0.7660	0.3921	0.4673	1.1590	0.0541
	1 45						S50W						
270		1 30	0.9997 0.0262	269.954	269.954	0.524		S50W	0.6428 0.7660	0.3368	0.4014	1.4958	W 0.3473
	1 30						S55W						
290		2 0	0.9994 0.0349	289.942	289.942	0.698		S36W	0.7071 0.8090	0.4926	0.4926	1.9884	0.8409
	2 0						S36W						

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 336 Date Surveyed 22/10/70

Total Depth 460 Depth Surveyed To 340

Casing Depth 44 Surveyed By K.M. FREESTONE.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
310	2 0	2 17½	0.9993 0.0371	19.986	309.988	0.742	S 40W	S 40W	0.7660 0.6428	0.5684 S	0.4770 W	2.5578 S	1.3179 W
	2 15						S 40W						
330	2 15	2 15	0.9992 0.0373	19.984	329.942	0.786	S 45W	S 45W	0.7071 0.7071	0.5558 S	0.5558 W	3.1136 S	1.8737 W
	2 15						S 45W						
340	2 15	2 15	0.9992 0.0393	19.984	339.946	0.393	S 37W	S 40W	0.7660 0.6428	0.3010 S	0.2526 W	3.4146 S	2.1263 W

100

200

300

400

500

DD.H:- 336

TOTAL DEPTH:- 460

CASING DEPTH:- 54

DATE SURVEYED:- 22/10/70

DEPTH SURVEYED TO:- 340

N

W E

S

335A

OPEN CUT WEST END

99088.01 N
~~98931.18~~ E 100051.79 LINE 19

156.2 (M.D.)

26/9/70

31/10/70

278'

2/11/70

N.R. Kinnane

Hole commenced as 335 but was abandoned at 76' and a new hole commenced
Drilling dates refer to both 335 and 335A.

I.S.G. Co-ords: 219,358.8 E
564,248.6 N

R.L. = 50.9m

GEOPEKO LIMITED, KING ISLAND.

SAMPLE NO.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH ED'D.	ASSAY	
	DIAMOND DRILL HOLE 335A					
A 4101	35	47	12.0	6.0	0.08	0.018
4102	47	52	5.0	1.0	0.04	0.013
4103	52	57	5.0	1.0	0.06	0.017
4104	57	65	8.0	2.0	0.06	0.020
4105	65	71	6.0	3.5	0.04	0.014
4106	71	77	6.0	3.0	0.22	0.012
4107	77	82	5.0	4.0	0.06	0.020
4108	82	87	5.0	1.0	0.09	0.014
4109	87	89	2.0	1.0	0.06	0.016
	89	92	3.0	0.0		
	92	102	10.0	9.0		

UNIT	GEOLOGICAL DESCRIPTION	JOINTS
NC CORE 0'-35' 10.7	No Core	
Gh/Bh/Ph 35' - 89' 27.1	Granet/Pyroxene/Biotite Hornfels: Highly oxidised and stronlgy fractured and broken and bedded rock. There is much lost core Joints are chlorite and calcite filled	20°,30°, & 90°
Ph 89' to 100.5' 30.6	Pyroxene Hornfels: Highly oxidised fine grained rather breccia like rock. Minor traces of scheelite occur.	
Aplite/Bh/Ph 100.5' to 116' 35.4	Aplite/Pyroxene/Biotite Hornfels; a well banded and bedded series of hornfels with numerous aplite dykes. Strong shearing at 103', 31.4 shear filled with calcite. Bedding at 40° with numerous bedding plane joints. Bedding tend to steepen in places to 30°, the rock grades into a massive biotite rich rock.	Shear 35° at 103'
GRANITE 116' to 137.5' 41.9	Granite dyke rock being medium to coarse Grained and containing both biotite and pyroxne. Minor biotite bands at 132.5'. Joints calcite and clay filled.	70°,50°,30°
Bh/Ph 137.5' to 181' 55.2	Biotite/Pyroxene Hornfels: finely banded well bedded series of hornfels. Bedding at 40° with Bedding plane jointing Joints are pyrite coated and chlorite filled & 30°	20°,90°,40°

GECKO LIMITED, KING ISLAND.

[illegible]	DISTANCE		LENGTH SAMPLED	LENGTH [illegible]	[illegible]
	FROM	TO			

GEOLOGICAL DESCRIPTION

At 145' a 6" Aplite dyke.
Slight variations occur in bedding dip.
Below 157' Pyrite commonly forms parallel bands at 40°.
Abundant pyroxene and garnet bands from 164' to 166'.
Numerous small quartz veins occur.
Grades into a biotite rich rock below 171'
Micro faults numerous.
179' to 180' Granite dykes.

GRANITE
181' to 277'
84.4

Granite medium to coarse grained porphyritic granite containing both biotite and pyroxene 70°, 30°
Very few joints.
Major joint set at 0 ± 10° ± calcite filled.

END OF HOLE AT 277'

K.D.H. N° 335.A (NO. 1 [redacted] 04)

W

E

S

100

200

200

N

W

E

S

DDH N° - 335.

Date Surveyed - 2/11/70

Total Depth - 272'

Depth Surveyed To - 260'

Casing - 35'

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 335 Date Surveyed 2/11/70

Total Depth 277 Depth Surveyed To 260

Casing Depth 35 Surveyed By V. M. FREESTONE.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN				22	250	1 15	S3W
	1	"				23	230	1 0	S2W
	2	"				24	210	1 15	S5W
	3	CLOSED				25	190	1 0	S10W
	4					26	170	1 15	S11W
	5	Moving				27	150	1 0	S6W?
	6	30				28	130	0 45	S3OW
	7	50	0 0			29	110		
	8	70	0 45			30	90	0 45	S7W
	9	90				31	70	0 45	S8W
	10	110	1 15	S10E		32	50	0 15	
	11	110	1 15	S12E		33	30	0 15	
	12	130	1 0	S5W.		34	10	(Moving)	
	13	150	0 45	S3W		35			
	14	170	0 45	S5E		36			
	15	190	1 0	S6W		37	CLOSED		
	16	210	1 15	S10W		38	"		
	17	210	1 15	S10W		39	OPEN		
	18	230	1 15	S10W					
	19	250	1 15	S.11W					
	20	260	1 15	S9W					
	21	260	1 15	S9W					

REMARKS:-

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 335 Date Surveyed 2/4/20

Total Depth 277 Depth Surveyed To 260

Casing Depth 35 Surveyed By V. M. FREESTONE

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
30	0 15	0 15	1.0000 0.0044	30.0	30.0	0.132 0.088							
	0 15												
50	0 0	0 7½	1.0000 0.0022	20.0	50.0	0.044							
	0 15												
70	0 45	0 45	0.9999 0.0131	19.998	69.998	0.262							
	0 45						S 8 W						
90	1	0 45	0.9999 0.0131	19.998	89.996	0.262	S 10 E						
	0 45						S 7 W						
110	1 15	1 0	0.9998 0.0175	19.996	109.992	1.050 0.350	S 12 E	S 5	1.0000 1.0000	1.050	0.0000	1.050	0.0000
130	1 0	0 52½	0.9999 0.0153	19.996	129.988	0.306	S 5 W	S 17½ W	0.9537 0.3007	0.2918	0.0920	1.3416	0.0920
	0 45						S 30 W						
150	0 45	0 52½	0.9998 0.0153	19.996	149.984	0.306	S 3 W	S 14 W	0.9703 0.2419	0.2369	0.0740	1.6387	0.1660
	1 0						S 25 W						
170	0 45	1 0	0.9998 0.0175	19.996	169.980	0.350	S 5 E	S 3 W	0.9986 0.0523	0.3985	0.0183	1.9882	0.1843
	1 15						S 11 W						
190	1 0	1 0	0.9998 0.0175	19.996	189.976	0.350	S 6 W	S 8 W	0.9903 0.1392	0.3466	0.0487	2.3348	0.2330
	1 0						S 10 W						
210	1 15	1 15	0.9998 0.0175	19.996	209.972	0.350	S 10 W	S 7½ W	0.9914 0.1305	0.3470	0.0457	2.6818	0.2787
	1 15						S 5 W						
230	1 15	1 ½	0.9998 0.0197	19.996	229.968	0.394	S 10 W	S 6 W	0.9945 0.1045	0.3918	0.0412	3.0736	0.3199
	1 0						S 2 W						
250	1 15	1 15	0.9998 0.0218	19.996	249.964	0.436	S 11 W	S 7 W	0.9925 0.1219	0.4327	0.0531	3.5063	0.3730
	1 15			9.998			S 3 W						
260	1 15	1 15	0.9998 0.0218	9.998	259.962	0.218	S 9 W	S 9 W	0.9877 0.1564	0.2153	0.0341	3.7216	0.4071

OPEN CUT

100 527.3 E 99356.6N

64.5

11/9/70

15/10/70

533'

20/10/70

N.R. Kinnane

I.S.G. Co-ords: 219,779.6 E
563,992.5 N
R.L. = 28.0 m

DIAMOND DRILL HOLE 334

DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	WIDTH
6	24	18	0.5
24	26	2.0	1.0
26	34	80	4.0

IN	GEOLOGICAL DESCRIPTION	
DUMP 0' to 6'		
GRANITE 6' to 72.5	Granite medium grained pink granitic dyke varying in places to aplite and to pegmatite. Joints open and chlorite-clay filled. Last 5' from 67' to 72' Aplitic.	0°, 40°, & 70°
VOLCANICS	Volcanics fine grained green porphyritic rock, with large mica porphyroblasts. Minor aplite dykes at 85' to 85.5. 87' to 89' pegmatite cutting at 40° to axis of core. Both rather pegmatitic in centre of dyke and aplitic on margine. Chlorite and calcite filled joints There is some variation in rock texture but it essentially remained the same. 101 to 103' large calcite filled joint. Maybe some chlorite present. 105' to 106' Shear at 20° 101 to 101.5 Aplite. 127' to 133 Highly sheared and jointed rock. Shears at 40° to 50°, 0°, 20°. Joints continue as before. Below 151' rock external, variable porphyritic and non porphyritic patches. At 183' fine grained porphyritic rock with large mica porphyroblasts. Rock shows great variation throughout. Jointing often intesifies and approaches shearing From 207' jointing alters slightly Rock becomes strongly spotted from 211' to 219' Shear zone 225' to 225.5' 241' to 248.5' Granite dyke - medium grained to coarse grained with some fine grained patches. Biotite rich. Jointing shows some irregularity	50°, 30°, & 60° 0°, 40°, 80° 50° to 60° 0°, 30° & 90° 0°, 45° & 90° 0°, 80°, & 20° to

... LIMITED, KING ISLAND.

DISTANCE		LENGTH SAMPLED
FROM	TO	

GEOLOGICAL DESCRIPTION

From 261' to 261.5' a blood red aplite dyke.
From 273' to 273.5' a blood red aplite dyke
From 292' to 297' Aplite/granite dyke.
From 297' to 350' Volcanic rock dark green in colour highly porphyritic with abundant felspathiodal clots.
From 276' to 283' a series of shears 0°,-1 ,50
chlorite filled.
Quartz vein at 308.5' at 20° to A.O.C.
" " " 315' " 20° to A.O.C.
carrying minor scheelite.
Fractured core from 340' to 350'.
From 350' onwards the rock is strongly porphyritic and medium grained green with large mica porphyroblasts.
Joints 0°,40°,80°
From 376.5' to 381 shear chlorite and calcite filled at 20°

From 416' to 454' a tuffaceous rock distinctly bedded.
Veins of quartz and calcite at 20° and 50° 20° & 5
Bedding at 30° to 40°.

GRANITE
454' to 533'

Granite medium to coarse grained porphyritic 90°,0°-
rock. 20°
Joints chlorite and calcite filled 40° & 50

END OF D.D.H. HOLE AT 533'

D.D.H. N° 334.

N E

100'

200'

300'

N S

D.D.H. N° 334.

TOTAL DEPTH - 532'

SURVEYED TO - 350'

CASING DEPTH - 30'

DATE SURVEYED - 20/10/70

N

W E

S

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 334 Date Surveyed 20/10/70

Total Depth 532' Depth Surveyed To 350'

Casing Depth 30' Surveyed By V.M. FREESTONE.

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN				22	220	0 30	N30E
	1	OPEN				23	240	1 0	N25E
	2	OPEN				24	260	1 0	N20E
	3	CLOSED				25	280	1 15	N26E
	4	"				26	300	1 15	N40E
	5	"				27	300	1 15	N40E
	6	"				28	320	1 15	
	7	"				29	340	1 15	N36E
	8	"				30	moving.		
	9	"				31	350	0 45	N66E
	10	20	-	-		32	350	0 45	N06E
	11	40	1 0	N30E		33	340	1 15	N69E
	12	60	1 0	N26E		34	320	1 0	N55E
	13	80	1 0	N38E		35	300	1 15	N46E
	14	100	1 0	N40E		36	280	1 15	N40E
	15	100	1 0	N40E		37	260	1 15	N46E
	16	120	1 15	N35E		38	240	1 15	N45E
	17	140	1 15	N47E		39	220	1 15	N35E
	18	160	1 15	N40E		40	200	1 15	N35E
	19	180	1 30	N35E		41	180	1 0	N30E
	20	200	1 0	N45E		42	160	1 0	N23E
	21	200	1 0	N45E		43	140	1 0	N30E

REMARKS:- Cave IN just below 350'

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 334 Date Surveyed 20/10/70

Total Depth 532' Depth Surveyed To 350'

Casing Depth 30' Surveyed By V.M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct	
	44	120	1 0							
	45	100	1 0	N46E						
	46	80	1 15	N46E						
	47	60	1 0	N50E						
	48	40	1 15	N42E						
	49	20	1 0							
	50	CLOSED								
	51									
	52									
	53									
	54	OPEN								
	55	"								
	56									

REMARKS:-

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 334 Date Surveyed 20/10/70

Total Depth 532' Depth Surveyed To 350'

Casing Depth 30' Surveyed By V. M. FREESTONE.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/[redacted]	Co-Ords. E/[redacted]	Sum of Co-Ords. N/[redacted]	Sum of Co-Ords. E/[redacted]
20		1 0	0·9998 0·0175	19·996	19·996	0·350							
	1 0												
40	1 0	1 7½	0·9998 0·0199	19·996	39·992	0·748 0·398	N30E	N36E	1·8090 0·5878	0·6051	0·4397	0·6051	0·4397
	1 15						N42E						
60	1 0	1 0	0·9998 0·0175	19·996	59·988	0·350	N26E	N38E	0·7820 0·6157	0·2758	0·2155	0·8809	0·6552
	1 0						N50E						
80	1 0	1 7½	0·9998 0·0199	19·996	79·984	0·398	N28E	N42E	0·7431 0·6691	0·2957	0·2663	1·1766	0·9215
	1 15						N46E						
100	1 0	1 0	0·9998 0·0175	19·996	99·980	0·350	N40E	N43E	0·7314 0·6820	0·2560	0·2387	1·4326	1·1602
	1 0						N46E						
120	1 15	1 7½	0·9998 0·0199	19·996	119·976	0·398	N35E	N35E	0·8192 0·5736	0·3260	0·2283	1·7586	1·3886
	2 0												
140	1 15	1 7½	0·9998 0·0199	19·996	139·972	0·398	N47E	N38½E	0·7826 0·6225	0·3115	0·2437	2·0701	1·6527
	1 0						N30E						
160	1 15	1 7½	0·9998 0·0199	19·996	159·968	0·398	N40E	N31½E	0·8526 0·5225	0·3393	0·2080	2·4094	1·8602
	1 0						N22E						
180	1 30	1 15	0·9998 0·0218	19·996	179·964	0·436 0·440	N35E	N32½E	0·8434 0·5373	0·3677	0·2321	2·7771	2·0923
	1 0						N30E						
200	1 0	1 7½	0·9998 0·0199	19·996	199·960	0·398	N45E	N40E	0·7660 0·6428	0·3049	0·2558	3·0820	2·3481
	1 15						N35E						
220	0 30	1 7½	0·9998 0·0199	19·996	219·956	0·398	N30E	N32½E	0·8434 0·5373	0·3357	0·2138	3·4177	2·5619
	1 15						N35E						
240	1 0	1 7½	0·9998 0·0199	19·996	239·952	0·398	N25E	N35E	0·8192 0·5736	0·3260	0·2283	3·7437	2·7902
	1 15						N45E						
260	1 0	1 7½	0·9998 0·0199	19·996	259·948	0·398	N20E	N33E	0·8387 0·5446	0·3338	0·2168	4·0775	3·0070
	1 15						N46E						
280	1 15	1 15	0·9998 0·0218	19·996	279·944	0·436 0·440	N26E	N33E	0·8387 0·5446	0·3657	0·2374	4·4432	3·2444
	1 15						N40E						

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 334 Date Surveyed 20/10/70

Total Depth 532 Depth Surveyed To 350

Casing Depth 30 Surveyed By V.M. FREESTONE,

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
300	1 15	1 15	0.9998 / 0.0218	19.996	299.940	0.436	N40E	N43E	0.7314 / 0.6820	0.3189	0.2974	4.762	3.5418
	1 15						N46E						
320	1 15	1 7½	0.9998 / 0.0149	19.996	319.936	0.398		N50E	0.6428 / 0.7660	0.2558	0.3049	5.0179	3.8467
	1 0						N55E						
340	1 15	1 15	0.9998 / 0.0218	19.996	339.932	0.436	N56E	N57½E	0.5373 / 0.8434	0.2343	0.3677	5.2622	4.2144
	1 15						N59E						
350	0 45	0 45	0.9999 / 0.0131	9.999	349.931	0.131	N66E	N66E	0.4067 / 0.9135	0.0533	0.1197	5.3055	4.3341

OPEN CUT WEST END

99283.4E 9982.0 N LINE 17

121.6 (M.D.)

3/9/70

8/9/70

120'

8/9/70

N.R. Kinnane.

I.S.G. Co-ords: 219,424.9 E
564,187.2 N
R.L. = 404

GEOLOGICAL DESCRIPTION

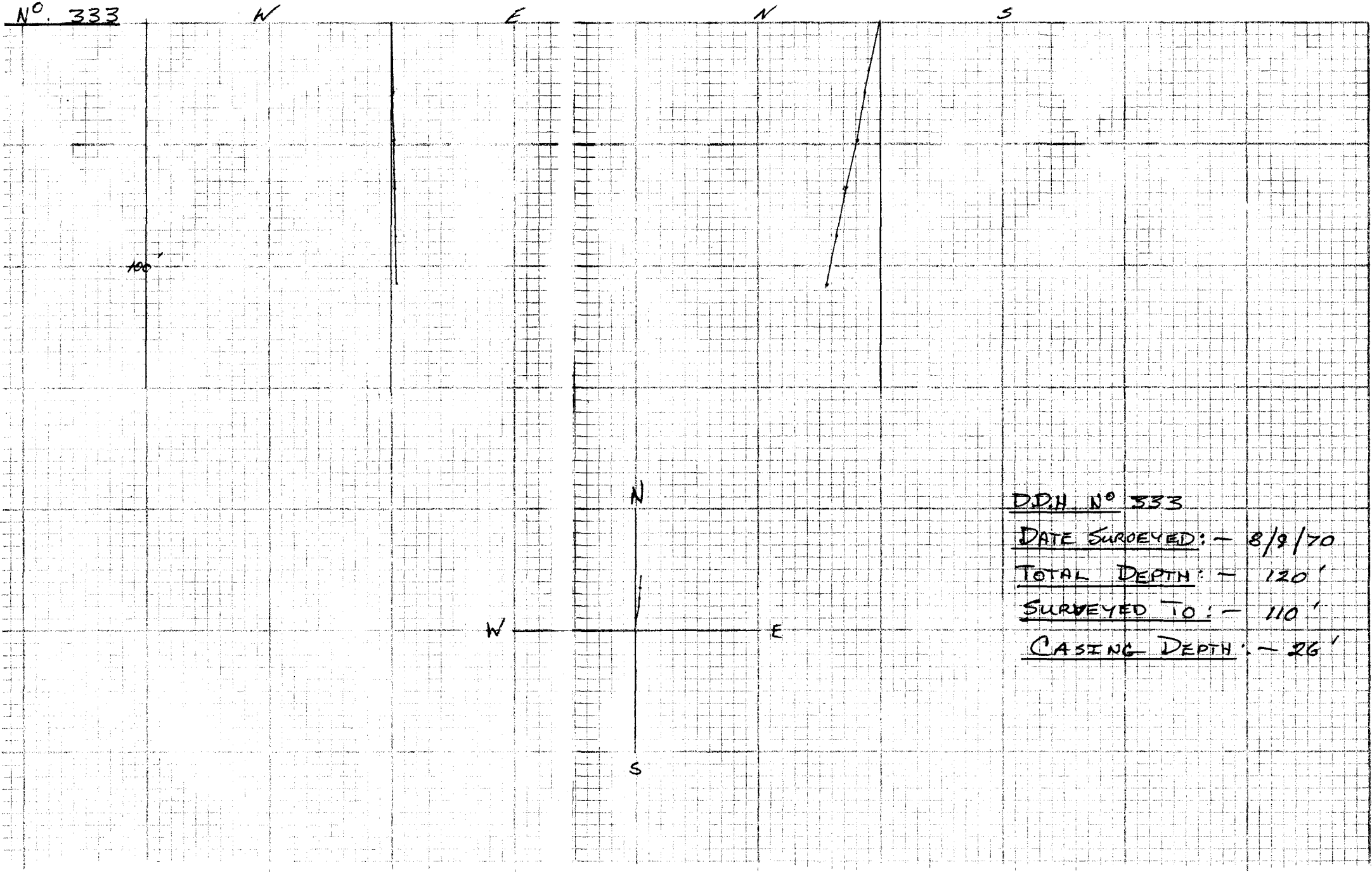
SAND & RUBBLE 0 - 21'	Sand & Rubble Dune sands and isolated beach rocks
VOLCANICS 21' to 36'	Volcanics medium grained green porphyritic rock. 29.5' to 30' Aplite. Rock highly fractured. Joints at 40° and chlorite.
GRANITE 36' to 120'	Granite coarse grained porphyritic grey-pink rock containing few xenoliths. Joints calcite and chlorite filled. Joints at 45° & 20°

END OF HOLE AT 120'

KING ISLAND

SAMPLE NO.	FROM	TO	LENGTH SAMPLED	LENGTH RECOV.	ASSAY

DIAMOND DRILL HOLE 333


No. 333
W
E
100'
N
S
N
W
E
S
D.D.H N° 533
DATE SURVEYED:- 8/9/70
TOTAL DEPTH:- 120'
SURVEYED TO:- 110'
CASING DEPTH:- 26'

1 of 1

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 333 — Date Surveyed 9/2/70

Total Depth 120' — Depth Surveyed To 110'

Casing Depth 26' — Surveyed By V. M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN				22	10		
	1	OPEN				23	CLOSED		
	2	OPEN				24	OPEN		
	3	CLOSED							
	4	"							
	5	MOVING							
	6	10							
	7	30	11 0	N6E					
	8	50							
	9	70	11 45	N6E					
	10	90	11 45	N5E					
	11	110	11 45	N5E					
	12	110	11 45	NHE					
ADDITIONAL SHOTS. (See Below)		110	11 45	NHE					
	13	100	11 45	N5E					
		100	MOVING						
	14	90	11 45	N5E					
	15	80	(MOVING)						
	16	70	11 30	NHE					
	17	60	(MOVING)						
	18	50	11 15	N5E					
	19	40	(MOVING)						
	20	30	11 0						
	21	20	(MOVING)						

REMARKS:- It would appear that the two additional shots taken was because of "contact failures."

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 333 Date Surveyed 8/9/70

Total Depth 120' Depth Surveyed To 110'

Casing Depth 26' Surveyed By W. M. FREESTONE

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
30	11 0	11 0	0.9816 / 0.1908	29.448	29.448	5.724	N6E	N5E	0.9962 / 0.0872	5.7022	0.4991	5.7022	0.4991
	11 0												
50		11 15	0.9808 / 0.1951	19.616	49.064	3.902		N5E	0.9962 / 0.0872	3.8872	0.3402	9.5894	0.8393
	11 15						N5E						
70	11 45	11 37½	0.9795 / 0.2013	19.590	68.654	4.030	N6E	N5E	0.9962 / 0.0872	4.0147	0.3514	13.6041	1.1907
	11 30						N4E						
90	11 45	11 45	0.9790 / 0.2036	19.580	88.234	4.072	N5E	N5E	0.9962 / 0.0872	4.0565	0.3551	17.6606	1.5458
	11 45						N5E						
110	11 45	11 45	0.9790 / 0.2036	19.580	107.814	4.072	N5E	N5E	0.9962 / 0.0872	4.0565	0.3551	21.7171	1.9009

OPEN CUT LINE 6

100 686.0 E 99475.2 N

13.3' = +7.35 m

3/8/70

19/8/70

531'

20/8/70

N.R. Kinnane

I.S.G. Co-ords: 219,832.7 E
564,021.3 N

R.L. = 7.3 m.

SB 191

UNIT	GEOLOGICAL DESCRIPTION	
PRE-COLLAR 0' to 20'		
VOLCANICS 22 to 45'	Volcanics fine to medium grained green porphyritic rock, well jointed andsheared All joints chlorite filled	Joints a 10° pred. Also set at 30°85
GRANITE 45 to 47'	Granite medium grained weathered granitic rock.	
VOLCANICS 47'- 289' 289 637	Volcanics fine grained porphyritic green rocks as before. Joint set nearly at right angles chlorite filled. Core becomes highly broken from 69' to 82'. Joints numerous and calcite filled.	30° & 50
	111' to 113' shear in core Joints steeper	Joints a 20° &
	Patches of broken core occur to 130'. Abundant chlorite and slickensides at 130'. At 201' Joints often contain chlorite plus minor molybdenite A vertical shear from 205' to 207	
	From 220' to 230' Joints dip decreases. Joints calcite filled and tight	50° & 30°
	At 230' Joint set chlorite filled	30° & 40
	Quartz vein at 229'	
	From 230' the rock becomes spotted in parts. At 255' a series of joints at 90° and 20°	
	A sheared and jointed rock, rather pyroxene rich with abundant chlorite from 230' to 281' From 272' to 278'. Chlorite and clay filled shears and joints occur at 208 40°.	

DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH N.D.V.
		DIAMOND DRILL HOLE NO. 332	
22	34	12.0	8.0
34	45	11.0	8.0
45	46	1.0	0.5

GEOLOGICAL RECORD

Bh/Ph 289' to 292' 88.1 89.0	Biotite/Pyroxene Hornfels fine grained black and green rock. Joints chlorite filled	Joint 4 50
BRECCIA 292' to 303' 92.4	Breccia sheared and broken rock predominantly volcanics fragments Joints all chlorite filled, rubbly filling in some places.	Join 40°, 8
APLITE 303' to 307' 93.6	Aplite fine grained cream rock well jointed Joints Joints chlorite filled	Joints 30° & 5
VOLCANICS 307' to 310' 94.5	Volcanics fine to medium grained green porphyritic rock.	
Bh/Ph/Volcs. 310' to 330' 100.6	Biotite/Pyroxene Hornfels/Volcanics inter-bedded fine grained rocks with volcanics bands predominating Joints calcite and chlorite filled. The rock becomes spotted with felspathibdal clot like blobs.	Joi t 0° 40
Bh/Ph 330' to 358' 109.1	Biotite/Pyroxene Hornfels not banded but an irregularly banded pyroxene rich rock.	
Bh 358' to 406 123.7	Biotite Hornfels fine grained black rock with some bands of pyroxene Joints calcite chlorite filled. Aplite from 389' to 389.5' 393 to 393.5' From 400 to 402' Pyroxene rich band Joints all calcite filled.	Joi t 60° 4[illegible] 20 45 , 1 to [illegible]

...NTAGE NO.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	...GTH ED	

GEOLOGICAL DESCRIPTION

Ph 406' to 409' 123.7 124.7	Pyroxene Hornfels fine to medium grained green rock well jointed chlorite and calcite filling on joints.	Joints a 20° & 90
Bh 409' to 415' 126.5	Biotite Hornfels fine grained black rock well jointed, Joints chlorite and calcite filled Rock spotted inpart.	Joints a 30°, 2°, 8
Ph 415' to 422' 128.6	Pyroxene Hornfels sheared and broken chloritic rock with abundant calcite on joints and fractures.	
Bh/Ph 422' to 428' 130.5	Biotite/Pyroxene Hornfels fine grained green and black rock. Banding irregular. Joints chlorite filled.	Joints a 75° & 3
BRECCIA 428' to 505' 153.9	Breccia predominantly a pyroxene rich rock with abundant biotite fragments. Shearing jointing exists for the full core length. Rock exhibits strong crushing, chlorite fills all joints and crush zones. Joints often separated and filled with puggy rubbly material. Rock fragments included calcite hornfels. 429' and 435 to 435.5' pegmatites cut across the core. Joints often pyrite coated. From 428' to 438' rock consists of sheared biotite and pyroxene hornfels. From 435.5' to 459' brecciated, sheared and jointed calcite rock. From 459 the rock although quite competant exhibits typical breccia textures, angular fragments of biotite, pyroxene and calcite hornfels with a cement of calcite. Joints quite irregular Brecciation becomes more intense toward 500'.	Joints a 20° & 75 20° & 0° 70° to 75

SPECPEKO LIMITED, KING ISLAND.

SAMPLE NO.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	NOTES

GEOLOGICAL DESCRIPTION

GRANITE
505' to 531'

Granite medium grained to coarse grained pink granite, banded by dykes. Contains numerous coarse felspathic crytals All joints chlorite filled. The granite is strongly brecciated for 18'.

Joints at 45° 20

END OF D.D.H. 332 AT 531'

GREENEKO LIMITED, KING ISLAND.

SAMPLE NO.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH REJECTED

N°: 332

W E N S

100

200

300

400

500

DDH: N°. :- 332

DATE SURVEYED :- 20/8/70

TOTAL DEPTH :- 531'

SURVEYED TO :- 300'

N

W E

S

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 332 — Date Surveyed 20/8/70

Total Depth 531' — Depth Surveyed To 300

Casing Depth 85' — Surveyed By V. M. FREESTONE.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. #/S	Co-Ords. #/W	Sum of Co-Ords. #/S	Sum of Co-Ords. #/W
30	0 15	0 15	1.0000 / 0.0044	30	30	0.132							
	0 15												
50	0 15	0 22½	1.0000 / 0.0066	20	50	0.132							
	0 30												
70	0 15	0 22½	1.0000 / 0.0066	20	70	0.132							
	0 30												
90	0 15	0 22½	1.0000 / 0.0066	20	90	0.132				Because of the			
	0 30									Low drift angle			
110	0 15	0 15	1.0000 / 0.0044	20	110	0.088	S6W	S5½W		the values of			
	0 15						S5W			drift direction			
130	0 15	0 15	1.0000 / 0.0044	20	130	0.088				are somewhat			
	0 15						S3W			erratic —			
150	0 30	0 30	1.0000 / 0.0087	20	150	0.174	S45W	S42½W		thus an angle			
	0 30						S40W			of S20W will			
170	0 30	0 30	1.0000 / 0.0087	20	170	0.174	S45W	S32½W		be taken.			
	0 30						S20W						
190	0 30	0 30	1.0000 / 0.0087	20	190	0.174	S20W	S12½W					
	0 30						S5W			S20W		0.9397 / 0.3420	
210	0 30	0 37½	0.9999 / 0.0109	19.998	209.98	0.218	S5W	S5W		TOTAL DEFLECTION			
	0 45						S5W				= 2.842		
230	0 45	0 45	0.9999 / 0.0131	19.998	229.976	0.262	S8W	S8W					
	0 45						S8W						
250	0 45	0 45	0.9999 / 0.0131	19.998	249.974	0.262	S30W	S30W					
	0 45						S30W						
270	1 0	0 52½	0.9998 / 0.0153	19.996	269.990	0.306	S27W	S23½W					
	0 45						S20W						
290	1 0	0 52½	0.9998 / 0.0153	19.996	289.986	0.306							
	0 45						S25W	S22½W					
300	0 45	0 45	0.9999 / 0.0131	9.999	299.985	0.262	S20W			2.67	0.97		

2.842

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 332 Date Surveyed 20/8/70

Total Depth 531' Depth Surveyed To 300

Casing Depth 85' Surveyed By V.M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN				22	moving		
	1	OPEN				23	moving		
	2	OPEN				24	300	0 45	S 20 W
	3	CLOSED				25	300	0 45	S 20 W
	4	"				26	290	0 45	S 25 W
	5	10'	(poss.	moving)		27	270	0 45	S 20 W
	6	30	0 15			28	250	0 45	S 30 W
	7	50	0 15			29	230	0 45	S 8 W
	8	70	0 15			30	210	0 45	S 5 W
	9	90	0 15			31	190	0 30	S 5 W
	10	110	0 15	S 6 W		32	170	0 30	S 20 W
	11	110	0 15	S 6 W		33	150	0 30	S 40 W
	12	130	0 15			34	130	0 15	S 3 W
	13	150	0 30	S 45 W		35	110	0 15	S 5 W
	14	170	0 30	S 45 W		36	90	0 30	
	15	190	0 30	S 20 W		37	70	0 30	
	16	210	0 30	S 5 W		38	50	0 30	
	17	210	0 30	S 5 W		39	30	0 15	
	18	230	0 45	S 8 W		40	10		
	19	250	0 45	S 30 W		41	CLOSED		
	20	270	1 0	S 27 W		42	"		
	21	290	1 0			43	"		
						44	OPEN		
						45	"		

REMARKS:-

Because of the Low angle of deflection a Large discrepancy in the Bearing resulted.

DIAMOND DRILL HOLE 331

A 3847	47'		49'	2.0'	2.0'	0.20	0.010
A 3848	49'		51'	2.0'	2.0'	0.15	<0.01
A 3849	51'		53'	2.0'	2.0'	0.03	<0.01
A 3850	53'		55'	2.0'	2.0'	0.04	<0.01
A 3851	55'		57'	2.0'	2.0'	0.04	<0.01
A 3852	57'		59'	2.0'	2.0'	0.05	<0.01
A 3853	59'		61'	2.0'	2.0'	0.04	<0.01
A 3854	61'		63'	2.0'	2.0'	0.02	<0.01
A 3855	63'		65'	2.0'	2.0'	0.65	0.022
A 3856	65'		67'	2.0'	2.0'	0.10	<0.01
A 3857	67'		69'	2.0'	2.0'	0.06	<0.01
A 3858	69'		71'	2.0'	2.0'	0.05	<0.01
A 3859	71'		73'	2.0'	2.0'	0.18	0.02
A 3860	73'		75'	2.0'	2.0'	0.16	0.012
A 3861	75'	22.9	77'	2.0'	2.0'	0.18	0.042
A 3862	77'	23.5	79'	2.0'	2.0'	0.74	0.036
A 3863	79'	24.1	81'	2.0'	2.0'	0.26	0.011
A 3864	81'	24.7	83'	2.0'	2.0'	1.14	0.047
A 3865	83'	25.3	85'	2.0'	2.0'	0.58	0.021
A 3866	85'	25.9	87'	2.0'	2.0'	0.94	0.049
A 3867	87'	26.5	89'	2.0'	2.0	0.59	0.029
A 3868	89'	27.1	91'	2.0'	2.0'	0.46	0.016
A 3869	91'	27.7	93'	2.0'	2.0'	0.27	0.012
A 3870	93'	28.3	95'	2.0'	2.0'	1.10	0.037
A 3871	95'	28.9	97'	2.0'	2.0'	0.59	0.021
A 3872	97'	29.6	99'	2.0'	2.0'	0.64	0.029
A 3873	99'	30.2	101'	2.0'	2.0'	0.71	0.029
A 3874	101'	30.8	103'	2.0'	2.0'	0.38	0.018

Bh|Volcs
0 to 47'

Biotite Hornfels | Volcanics :- predominantly a fine grained black biotite hornfels with some bands of dark green porphyritic hornfelsic material. Joints chlorite filled, minor clay filling Shearing is common, From 28' to 29' Aplite Quartz veins also common

Joints at 10°, 45° & 20°

Pgh|GpL
47' to 62'

Pyroxene-garnet | Garnet-pyroxene Hornfels :- a variable rock with very little typical Pgh. In the main a fine to medium grained rock with coarse patches of garnet, usually grossular Joints open and chlorite filled, some calcite filling Some coarse quartz patches and quartz veins usually parallelling an indistinct bedding

Joints at 30° & 70°

Gpm
62' to 100'

Garnet-pyroxene Hornfels :- medium grained to coarse grained brown to green brown rock with some banding or bedding. The 90° Joint set is common, quartz filled most joints are calcite filled. Good disseminated sulphide throughout

From 69' to 74' a biotite | pyroxene band with no mineralization

From 63' grade is excellent. Minor molybdenite occurs in fissures

At 96' a quartz vein at 45° occurs

Joints 50°, 80° & 30°

A3875	103'	31.4	105'	2.0'	2.0	0.27		GP
A3876	105'	32.0	107'	2.0'	2.0'	0.07	0.010	100
A3877	107'	32.6	109'	2.0'	2.0'	0.06	<0.01	
A3878	109'		111'	2.0'	2.0'	0.04	<0.01	
A3879	111'		113'	2.0'	2.0	0.10	<0.01	
A3880	113'		115'	2.0'	2.0	0.10	<0.01	
A3881	115'	35.0	117'	2.0'	2.0'	0.48	0.017	0.6% 1/2
A3882	117'	35.6	119'	2.0'	2.0'	0.09	<0.01	
A3883	119'		121'	2.0'	2.0	0.18	<0.01	
A3884	121'		123'	2.0'	2.0	0.07	<0.01	
A2585	123'		125'	2.0'	2.0'	0.07	<0.01	
A3886	125'		127'	2.0	2.0	0.01	<0.01	
A3887	127'		129'	2.0'	2.0'	<0.01	<0.01	
A3888	129'		131'	2.0'	2.0	<0.01	<0.01	
A3889	131'	34.9	133'	2.0'	2.0'	1.53	0.056	
A3890	133'	40.5	135'	2.0'	2.0'	1.72	0.062	
A3891	135'	41.1	137'	2.0'	2.0	0.42	0.018	
A3892	137'	41.7	139'	2.0'	2.0'	0.03	0.021	
A3893	139'		141'	2.0'	2.0'	0.17	0.013	
A3894	141'		143'	2.0'	2.0'	0.18	0.013	
A3895	143'		145'	2.0'	2.0'	0.18	0.019	
A3896	145'	44.2	147'	2.0'	2.0'	0.29	0.010	0.29% 1/2'
A3897	147'	44.8	149'	2.0'	2.0'	0.04	<0.01	
A3898	149'		151'	2.0'	2.0'	0.06	0.010	
A3899	151'		153'	2.0'	2.0'	0.05	0.011	
A3900	153'		155'	2.0'	2.0	0.03	<0.01	
A3901	155'		157'	2.0'	2.0'	0.05	0.010	
A3902	157'		159'	2.0'	2.0	0.06	0.010	
A3903	159'		161'	2.0'	2.0	0.03	<0.01	
A3904	161'		163'	2.0'	2.0'	0.03	<0.01	
A3905	163'		165'	2.0'	2.0	0.07	<0.01	
A3906	165'		167'	2.0'	2.0	0.06	0.014	
A3907	167'		169'	2.0'	2.0	0.05	<0.01	
A3908	169'	51.5	171'	2.0'	2.0'	0.45	0.022	
A3909	171'	52.1	173'	2.0'	2.0'	0.52	0.030	
A3910	173'	52.9	175'	2.0	2.0'	0.55	0.030	
A3911	175'	53.3	177'	2.0'	2.0'	0.28	0.049	

Gph | Garnet - pyroxene Hornfels :- banded green-
100' to 128' brown rock predominantly
Garnet - pyroxene hornfels with minor biotite
and pyroxene banding. Quartz and calcite
veining is common . Irregular garnet-rich
ovoids and bands are common
Joints as before

Joints
50°, 30°, 80°

Ch | Calcite Hornfels :- medium grained grey
128' to 130' banded rock . Joints
calcite filled rarely chlorite filled.

Joints 90°
85°

Gph | Garnet - pyroxene Hornfels :- medium grained
130' to 147' green brown rock with
numerous shears at 138' and 140'
Shears at 40° and calcite filled
Very good fine disseminated schelite.

Joints 90°
85° & 40°

Ch | Calcite Hornfels :- medium grained grey
147' to 148' rock

Breccia | Breccia :- fragments of garnet - pyroxene, calcite
· 148' to 160' and biotite rock, chlorite is
abundant

Bh/Gpx/Bh/P | Garnet | Garnet-pyroxene | biotite | pyroxene Hornfels :-
160' to 177 banded fine to medium grained
rock
Joints calcite & chlorite filled, some
disseminated schelite

Joint 40°
20°, 80°

A 3912	177'	53.9	179'	2.0'	2.0'	0.98	0.045
A 3913	179'	54.5	181'	2.0'	2.0'	0.42	0.027
A 3914	181'	55.1	183'	2.0'	2.0'	0.50	0.028
A 3915	183'	55.9	185'	2.0'	2.0'	1.00	0.034
A 3916	185'	56.4	187'	2.0'	2.0'	0.32	0.017
A 3917	187'	57.0	189'	2.0'	2.0'	0.10	0.010
A 3918	189'		191'	2.0'	2.0	0.06	<0.01
A 3919	191'	58.2	193'	2.0'	2.0	0.31	0.95
A 3920	193'	58.8	195'	2.0'	2.0	0.09	<0.01
A 3921	195'		197'	2.0'	2.0'	0.21	0.011
A 3922	197'		199'	2.0'	2.0'	0.21	0.013
A 3923	199'	60.6	201'	2.0'	2.0'	0.85	0.037
A 3924	201'	61.2	203'	2.0'	2.0'	0.89	0.037
A 3925	203'	61.9	205'	2.0'	2.0	0.03	<0.01
A 3926	205'		207'	2.0'	2.0'	0.04	<0.01
A 3927	207'		209'	2.0'	2.0'	0.03	<0.01
A 3928	209'		211'	2.0'	2.0'	0.10	<0.01
A 3929	211'		213'	2.0'	2.0'	0.04	<0.01
A 3930	213'		215'	2.0'	2.0'	0.01	<0.01
A 3931	215'		217'	2.0'	2.0'	0.03	<0.01
A 3932	217'		219'	2.0'	2.0'	0.13	<0.01
A 3933	219'		221'	2.0'	2.0'	0.17	<0.01
A 3934	221'		223'	2.0'	2.0'	0.03	<0.01
A 3935	223'		225'	2.0'	2.0'	0.03	<0.01
A 3936	225'		227'	2.0'	2.0'	0.05	<0.01
A 3937	227'		229'	2.0'	2.0'	0.05	0.010
A 3938	229'		231'	2.0'	2.0'	0.06	<0.01
A 3939	231'		233'	2.0'	2.0'	0.07	<0.01
A 3940	233'		235'	2.0'	2.0'	0.04	<0.01
A 3941	235'		237'	2.0'	2.0'	0.06	0.012
A 3942	237'		239'	2.0'	2.0'	0.05	<0.01
A 3943	239'		241'	2.0'	2.0'	0.06	0.013
A 3944	241'		243'	2.0'	2.0'	0.14	0.012
A 3945	243'		245'	2.0'	2.0'	0.13	0.010
A 3946	245'		247'	2.0'	2.0'	0.03	<0.01
A 3947	247'		249'	2.0	2.0	0.05	0.013

15' at 0.67%

2' at 0.81%

4' at 0.87%

Gpk/Ph/Bh/Ch Garnet-pyroxene | Pyroxene | Biotite | Calcite Hornfels.

177' to 247' strongly banded rock, predominantly Garnet-pyroxene and pyroxene bands predominate Joint at 20° a 60°
Calcite becomes more common towards the bottom of the sequence. From 200 to 24..
Grossular garnet becomes more abundant
Bedding at 30°.

Bh/Ph Biotite | Pyroxene Hornfels: minor Garnet bands
247' - 284 predom. biotite and Joints at 80° a 45°
pyroxene hornfels. Joints chlorite filled

Breccia Breccia: broken fragments of Bh/Ph
284' to 289' cemented by calcite and chlorite
Joint at 20° chlorite filled
Rand... calcite filled joint

Bh/Ph Biotite | Pyroxene Hornfels: finely interbedded
289' to 317' rock, beddings at 30° to 40° 20°
50° to 60° to axis of core
Joint chlorite filled

Bi/Ph/Gt Bitite | Pyroxene | Garnet Hornfels: banded interbeds
317' to 370' of black bitite, green
pyroxene and brown garnet hornfels. 20° a 10°
Bedding becoming steeper to 70°
Joint steeper from 70° to 80°
Granite dyke from 325' to 326'
Some garnet bands containing minor
scheelite. Joints steeper to 90° toward
bottom of hole.

370 End of Hole

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 331 Date Surveyed 28/8/70

Total Depth 370' Depth Surveyed To 350'

Casing Depth 40' Surveyed By V.M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN				22	210	47 45	N7E
	1	OPEN				23	230	-	-
	2	OPEN				24	230	47 30	N6E
	3	CLOSED				25	250	46 30	N7E
	4	10	(poss. moving)			26	270	45 45	N7E
	5	10	48 15			27	moving -		-
	6	30	48 15	~~S1E~~		28	290	45 45	N7E
	7	50	48 45	N7E		29	310	(possibly moving)	
	8	70	48 15	N6E		30	310	45 0	N6E
	9	moving				31	330	44 45	N8E
	10	"				32	350	45 15	N9E
	11	"				33	350	45 15	N9E
	12	"				34	330	44 45	N6E
	13	90	48 15	N6E		35	310	44 45	N8E
	14	110	48 0	N6E		36	290	45 45	N7E
	15	110	48 0	N6E		37	270	46 15	N7E
	16	130	48 0	N7E		38	250	46 45	N8E
	17	150	48 0	N6E		39	230	47 15	N6E
	18	170	48 45	N9E		40	210	47 45	N7E
	19	190	(prob. moving)			41	190	(47 45 poss. moving)	N9E
	20	190	47 30	N7E		42	170	~~47 45~~ 48 15	N9E
	21	210	47 45	N7E		43	150	~~48 15~~ 47 30	~~N9E~~ N6E

REMARKS:-

A 45° HOLE.

2 of 2 sheets

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 331 Date Surveyed 28/8/70

Total Depth 370' Depth Surveyed To 350'

Casing Depth 40' Surveyed By V. M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	44	130	~~48 0~~ ~~47 30~~	~~N7E~~ ~~N6E~~					
	45	110	48 15	N7E					
	46	90	48 15	N6E					
	47	70	48 30	N6E					
	48	50	48 45	N8E					
	49	30	48 15						
	50	10	48 0						
	51	Closed							
	52	"							
	53	"							
	54	OPEN							
	55	"							

REMARKS:- A 45° HOLE

DIAMOND DRILL HOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 331 Date Surveyed 28/8/70

Total Depth 370' Depth Surveyed To 350'

Casing Depth 40' Surveyed By V. M. FREESTONE.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
10	48° 15'	48° 7½'	0·6675 / 0·7446	6·675	6·675	7·446							
	48° 0'												
30	48° 15'	48° 15'	0·6659 / 0·7461	13·318	19·993	14·922							
	48° 15'				(37·318)								
50	48° 45'	48° 30'	0·6626 / 0·7490	13·252	33·245	14·980	N7E	N7½E	0·9914 / 0·1305	37·027	4·874	37·027	4·874
	48° 45'						N8E						
70	48° 15'	48° 22½'	0·6642 / 0·7476	13·284	46·529	14·952	N6E	N6E	0·9945 / 0·1045	14·870	1·562	51·897	6·436
	48° 30'						N6E						
90	48° 0'	48° 15'	0·6659 / 0·7461	13·318	59·847	14·922	N6E	N6E	0·9945 / 0·1045	14·840	1·559	66·737	7·995
	48° 15'						N6E						
110	48° 0'	48° 7½'	0·6675 / 0·7446	13·350	73·197	14·892	N6E	N6½E	0·9936 / 0·1132	14·797	1·686	81·534	9·681
	48° 15'						N7E						
130	48° 0'	48° 0'	0·6691 / 0·7431	13·382	86·579	14·862	N7E	N7E	0·9925 / 0·1219	14·751	1·812	96·285	11·493
	48° 0'						N7E						
150	48° 0'	47° 45'	0·6724 / 0·7402	13·448	100·027	14·804	N6E	N6E	0·9945 / 0·1045	14·723	1·547	111·008	13·040
	47° 30'						N6E						
170	48° 45'	48° 30'	0·6626 / 0·7490	13·252	113·279	14·980	N8E	N8E	0·9877 / 0·1564	14·786	2·343	125·804	15·383
	48° 15'						N8E						
190	47° 30'	47° 37½'	0·6740 / 0·7388	13·480	126·759	14·776	N7E	N8E	0·9903 / 0·1392	14·633	2·057	140·437	17·440
	47° 45'						N8E						
210	47° 45'	47° 45'	0·6724 / 0·7402	13·448	140·207	14·804	N7E	N7E	0·9925 / 0·1219	14·683	1·805	155·130	19·245
	47° 45'						N7E						
230	47° 30'	47° 22½'	0·6772 / 0·7358	13·544	153·751	14·716	N6E	N6E	0·9945 / 0·1045	14·635	1·538	169·765	20·78
	47° 15'						N6E						
250	46° 30'	46° 37½'	0·6868 / 0·7269	13·736	167·487	14·538	N7E	N7½E	0·9914 / 0·1305	14·413	1·897	184·178	22·680
	46° 45'						N8E						
270	45° 45'	46° 0'	0·6947 / 0·7193	13·894	181·381	14·386	N7E	N7E	0·9925 / 0·1219	14·278	1·754	198·456	24·434
	46° 15'						N7E						

Sheet No. 2. of 2.

DIAMOND DRILL HOLE SURVEY

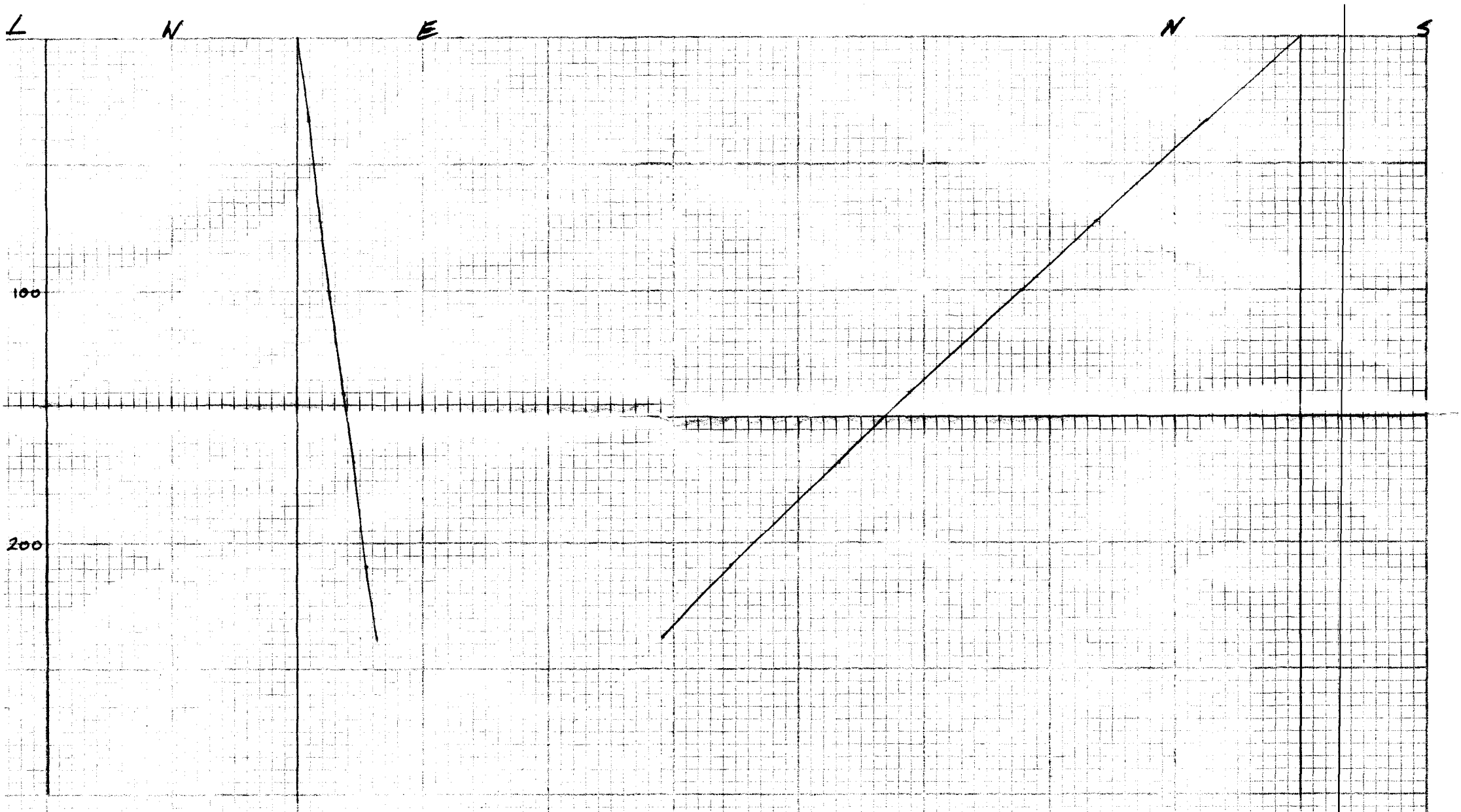
EASTMAN - KODAK MULTISHOT CAMERA

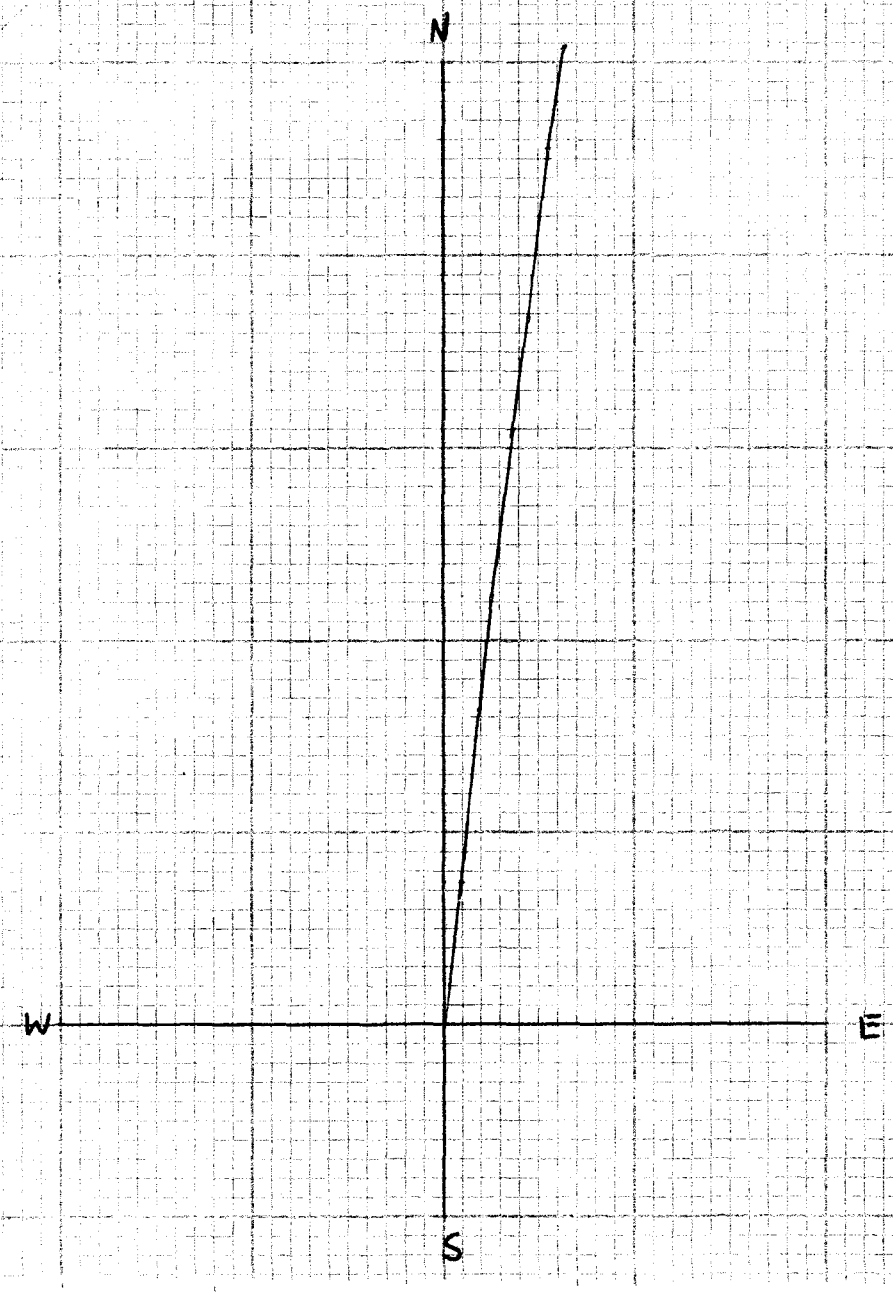
D.D.H. No. 331 Date Surveyed 28/8/70

Total Depth 320' Depth Surveyed To 350'

Casing Depth 40' Surveyed By V. M. FREESTONE.

Depth	Drift Angle	Mean Drift Angle	Cos Sine	Vert. Depth	True Vert. Depth	Defl.	Drift Direc.	Mean Drift Direc.	Cos Sine	Co-Ords. N/S	Co-Ords. E/W	Sum of Co-Ords. N/S	Sum of Co-Ords. E/W
290	45 45	45 45	0·6978 0·7163	13·956	195·337	14·326	N7E	N7E	0·9925 0·1219	14·219	1·746	212·675	26·180
	45 45						N7E						
310	45 0	44 52½	0·7086 0·7055	14·172	209·509	14·110	N6E	N5½E	0·9954 0·0958	14·045	1·352	226·720	27·532
	44 45						N5E						
3[illegible]	44 45	44 45	0·7102 0·7040	14·204	223·713	14·080	N8E	N7E	0·9925 0·1219	13·974	1·716	240·694	29·248
	44 45						N6E						
350	45 15	45 15	0·7040 0·7102	14·080	237·793	14·204	N9E	N9E	0·9877 0·1564	14·029	2·221	254·723	31·469





DDH. -331 { NO. 1 OREBODY

DATE SURVEYED :- 28/8/70

TOTAL DEPTH :- 370'

SURVEYED TO :- 350'

CASING TO :- 40'

OPEN CUT WEST END

99431.3 E 99877.4 N Line 15 & 80.

603' (M.D.)

7/7/70

23/7/70

40'

24/7/70

N.R. Kinnane

I.S.G. Co-ords : 219,472·1 E
564,198·0 N

R.L. = 15·5m

DIAMOND DRILL HOLE 330

SAMPLE No.	FROM	TO	LENGTH SAMPLED	LENGTH SILVER	SILVER	GOLD
A 3736	45	47	2.0	2.0	0.23	0.010
3737	47	49	2.0	2.0	0.16	0.01
3738	49	51	2.0	2.0	0.05	0.010
3739	51	53	2.0	2.0	0.03	0.01
3740	53	55	2.0	2.0	0.03	0.01
3741	55	57	2.0	2.0	0.03	0.01
3742	57	59	2.0	2.0	0.03	0.01
3743	59	61	2.0	2.0	0.04	0.01
3744	61	63	2.0	2.0	0.05	0.01
3745	63	65	2.0	2.0	0.05	0.01
3746	65	67	2.0	2.0	0.03	0.01
3747	67	69	2.0	2.0	0.10	0.01
3748	69	71	2.0	2.0	0.08	0.01

DRILL HOLE NO. 330

GEOLOGICAL DESCRIPTION

Bh 0' to 45'

Biotite Hornfels:- fine grained black rock spotted in part. Veined by quartz along joints 0, 20, and 35° and fractures as fine stringers.

Chlorite on joints in the main with some calcite 18' to 20' pyroxene rich band with some residual bedding.

Becomes more banded with Ph bands more common from 28' to 32'.

24' to 28' Aplite:- fine to medium grained pinkish rock. 23' to 24' two dykes 1" wide dipping 0, 20, 70 at 50 to 60°

Pgh
45' to 51'

Pyroxene-garnet Hornfels:- poorly developed rock with few ovoids. Bulk of the rock is a medium grained grossularite-diopside skarn with some coarse pods of calcite, quartz, etc. Open calcite filled. Joints 45°. Joint set quartz and calcite filled zone of schistocity and sheared rocks at 48'.

(Joints at 75, 30 & 45°

Gph
51' to 71'

Garnet-Pyroxene Hornfels:- medium grained variable rock with some irregularly shaped ovoids and pods - quartz and calcite filled.

Joints chlorite filled Joints at 40°

53.5' to 55'. Broken rock fragments. 30 & 60°

63.5' to 65' Quartz filled fractures with some pyrite and amphibole.

Jointing incommon - joints filled with chlorite and calcite.

Good disseminated scheelite in patches; some scheelite as coarse crystals in ovoids and veins

GEOPEKO - ALTED, KING ISLAND

SAMPLE NO.	DISTANCE FROM	DISTANCE TO	LENGTH SAMPLED	LENGTH RECOV.	ASSAYS	
3749	71	73	2.0	2.0	0.15	0.01
3750	73	75	2.0	2.0	0.14	0.01
3751	75	77	2.0	2.0	0.07	0.01
3752	77	79	2.0	2.0	0.29	0.01
3753	79	81	2.0	2.0	0.64	0.025
3754	81	83	2.0	2.0	0.26	0.013
3755	83	85	2.0	2.0	0.05	0.01
3756	85	87	2.0	2.0	0.15	0.01
3757	87	89	2.0	2.0	0.09	0.01
3758	89	91	2.0	2.0	0.07	0.01
3759	91	93	2.0	2.0	0.09	0.022
3760	93	95	2.0	2.0	0.07	0.017
3761	95	97	2.0	2.0	0.06	0.018
3762	97	99	2.0	2.0	0.05	0.01
3763	99	101	2.0	2.0	0.08	0.01
3764	101	103	2.0	2.0	0.05	0.01
3765	103	105	2.0	2.0	0.05	0.01
3766	105	107	2.0	2.0	0.09	0.01
3767	107	109	2.0	2.0	0.09	0.01
3768	109	111	2.0	2.0	0.04	0.01
3769	111	113	2.0	2.0	0.05	0.01
3770	113	115	2.0	2.0	0.06	0.01
3771	115.	117	2.0	2.0	0.06	0.015
3772	117	119	2.0	2.0	0.03	0.01
3773	119	121	2.0	2.0	0.07	0.01
3774	121	123	2.0	2.0	0.05	0.01
3775	123	125	2.0	2.0	0.21	0.02
3776	125	127	2.0	2.0	0.05	0.01
3777	127	129	2.0	2.0	0.19	0.01
3778	129	131	2.0	2.0	0.28	0.010
3779	131	133	2.0	2.0	0.03	0.01
3780	133	135	2.0	2.0	0.06	0.011
3781	135	137	2.0	2.0	0.08	0.01
3782	137	139	2.0	2.0	0.49	0.015
3783	139	141	2.0	2.0	0.06	0.01
3784	141	143	2.0	2.0	0.28	0.010
3785	143	145	2.0	2.0	0.42	0.018

GEOLOGICAL DESCRIPTION

Gh/Gph/Ph 71 to 89'	Garnet/Garnet-pyroxene/Pyroxene Hornfels:- banded patchy rock with bands of medium grained brown garnet rock with some good scheelite. Bands of quite coarse pyroxene often present. There are some joints, the majority being calcite filled, some contain chlorite. Fewer garnet bands towards 85°	Joints 60 & 20°
Bh 89 to 97'	Biotite Hornfels:- fine grained black quartz rich rock with some pyroxene. The rocks are sheared with prominant joints Joints chlorite filled and often slickensided.	Joints to 20°.
Ph/Gph 97' to 117'	Pyroxene/Garnet-pyroxene Hornfels:- irregularly broadly banded rock, skarn and hornfels. (Joints Joints chlorite filled. At 115' steeper joint set near vertical. 115' to 125' series of quartz filled farctures tight and irregular.	40°
Gph 117' to 134'	Garnet-pyroxene Hornfels:- medium to coarse grained brown garnet eock, fairly homogenous with few joints and fractures. Fractures quartz filled.	
Bh/Gh/Ph 134' to 141'	Biotite/Garnet/pyroxene Hornfels:- banded hornfels and skarn with minor disseminated scheelite. Joints along bedding planes, chlorit and calcite filled.	45° & 7
Gph/Ph	Garnet-pyroxene/Pyroxene Hornfels banded skarn in the main with some hornfels bands joints calcite filled.	45° & 3

SAMPLE	FROM	TO	LENGTH SAMPLED	NOTCH		
3786	145	147	2.0	2.0	0.21	0.01
3787	147	149	2.0	2.0	0.08	0.01
3807	181	183	2.0	2.0	0.04	0.01
3808	183	185	2.0	2.0	0.07	0.07
3809	185	187	2.0	2.0	0.04	0.01
3810	187	189	2.0	2.0	0.04	0.01
3811	189	191	2.0	2.0	0.04	0.020
3812	191	193	2.0	2.0	0.02	0.01
3813	193	195	2.0	2.0	0.30	0.01
3814	195	197	2.0	2.0		
3815	197	199	2.0	2.0	0.05	0.01
3816	199	201	2.0	2.0	0.24	0.01
3817	201	203	2.0	2.0	0.66	0.021
3818	203	205	2.0	2.0	0.02	0.01

UNIT	GEOLOGICAL DESCRIPTION	FR
Ch 148' to 180.5'	Calcite Hornfels:- some pyroxene and biotite bands, rock well jointed, joints calcite filled. Bulk and rock a medium grained grey dolomitic marble.	Joint 60°, 45°
Gph 180.5 to 192'	Garnet-pyroxene Hornfels:- banded medium grained brown to green-brown skarn rock. Shear at 185' calcite filled. Joints predominantly calcite filled. 187' to 192 a series of steep calcite filled shears at 60° to 70° good scheelite in patches.	30° 60° & 0
Ch 192' to 200'	Calcite Hornfels:- medium grained grey marble with few joints. Facturing at 90° probably fractures.	
Gh 200' to 204.5'	Garnet Hornfels:- garnet skarn, medium to coarse grained brown rock quite competent, Joints chlorite filled. Good disseminated scheelite.	Joints 30° &
Gh/Ph/Bh 204.5' to 232.5'	Garnet/Pyroxene/Biotite Hornfels:- interbedded biotite/pyroxene and calcite hornfels. Bedding at 50°. Joints chlorite filled. Garnet band from 228.5' to 229.5'. Shear at 219' to 222', calcite filled with vertical shears.	Joints
G SKARN	Garnet Skarn medium grained to coarse grained brown skarn 90° joint set calcite filled 45° set chlorite filled.	Joint 0° & 45°

SAMPLE No.	FROM	TO	LENGTH SAMPLED	WEIGHTS REQUIRED		
3819	225	227	2.0	2.0	0.01	0.01
3820	227	229	2.0	2.0	0.01	0.01
3821	229	231	2.0	2.0	0.57	0.016
3822	231	233	2.0	2.0	0.23	0.01
3823	233	235	2.0	2.0	0.59	0.022
3824	235	237	2.0	2.0	0.05	0.01
3825	237	239	2.0	2.0	0.03	0.01
3826	239	240	2.0	2.0	0.06	0.013

UNIT	GEOLOGICAL DESCRIPTION	FRACTURE
Ch 235 to 254	Calcite Hornfels some garnet bands plus Bh and Ph bands in a predominantly medium grained grey marble. Other hornfels increasing to 254'. Bedding at 60° 238' to 240'. Chlorite joints from 60° to 90°. 257' Aplite.	Joints 90° &
Bh/Ph 254' to 300'	Biotite/Pyroxene Hornfels:- banded fine grained rock to 291'. Joints chlorite filled. 266' to 267.5' Granite dyke. 269.5' shear at 70° 289' to 300' Broken and fractured core approaching the granite. Joints very numerous.	Joints a 25to2 0°80
GRANITE 300' to 401'	Granite coarse grained pink granite with minor variation 374.5' to 401' medium grained yellow rock, rather aplitic.	Joint 7 & 2
	END OF HOLE 401'	

D.D.H. :- 330
DATE SURVEYED :- 24/7/70
TOTAL DEPTH :- 401
SURVEYED TO :- 380'

Course Length	Deviation Angle	Cosine of mean Drift Angle	Sine of mean Drift Angle	Mean Drift Angle	Vertical Depth	True Vertical Depth	Course Deviation	Direction	Mean Drift Direction
20'	10° 0'	0.9848	0.1736	10°	0	19.696	19.696	3.472		
	10 0								
40 20	10 0	0.9848	0.1736	10	0	19.696	39.392	3.472		
	10 15								
60 20	10 0	0.9852	0.1715	9	52½	19.704	59.096	3.430	N9E	0.9903 0.1392
	9 45								N7E	
80 20	9 45	0.9852	0.1715	9	52½	19.704	78.800	3.430	N7E	0.9936 0.1132
	10 0								N6E	
100 20	9 15	0.9860	0.1672	9	37½	19.720	98.520*	3.344	N9E	0.9914 0.1305
	10 0								N6E	
120 20	9 0	0.9873	0.1586	9	7½	19.746	118.266	3.172	N9E	0.9877 0.1564
	9 15								N9E	
140 20	8 45	0.9884	0.1521	8	45	19.768	138.034	3.042	N8E	0.9890 0.1478
	8 45								N9E	
160 20	8 45	0.9884	0.1521	8	45	19.768	157.802	3.042	N8E	0.9936 0.1132
	8 45								N5E	
180 20	9 0	0.9877	0.1564	9	0	19.754	177.556	3.128	N6E	0.9936 0.1132
	9 0								N7E	
200 20	9 0	0.9880	0.1543	8	52½	19.760	197.316*	3.086	N6E	0.9914 0.1305
	8 45								N9E ?	
220 20	8 45	0.9887	0.1500	8	37½	19.774	217.090	3.000	N6E	0.9945 0.1045
	8 30								N6E	
240 20	8 45	0.9884	0.1521	8	45	19.768	236.858	3.042	N7E	0.9914 0.1305
	8 45								N8E	
260 20	9 0	0.9880	0.1543	8	52½	19.760	256.618	3.086	N6E	0.9914 0.1305
	8 45								N9E	
280 20	8 45	0.9884	0.1521	8	45	19.768	276.386	3.042	N5E	0.9954 0.0958
	8 45								N6E	
300 20	8 30	0.9887	0.1500	8	37½	19.774	296.160*	3.000	N5E	0.9954 0.0958
	8 45								N6E	

Meas Drift Direction	Meas Drift	Depth				
	ft					
		3·472				
		6·944				
0·9903 0·1392	N8E	10·374	10·2734	1·4441	10·2734	1·4441
0·9936 0·1132	N6½E	13·804	3·4080	0·3883	13·6814	1·8324
0·9914 0·1305	N7½E	17·148	3·3152	0·4364	*16·9966	2·2688
0·9877 0·1564	N9E	20·320	3·1330	0·4961	20·1296	2·7649
0·9890 0·1478	N8½E	23·362	3·0085	0·4496	23·1381	3·2145
0·9936 0·1132	N6½E	26·404	3·0225	0·3443	26·1606	3·5588
0·9936 0·1132	N6½E	29·532	3·1080	0·3541	29·2686	3·9129
0·9914 0·1305	N7½E	32·618	3·0595	0·4027	*32·3281	4·3156
? 0·9945 0·1045	N6E	35·618	2·9835	0·3135	35·3116	4·6241
0·9914 0·1305	N7½E	38·660	3·0138	0·3970	38·3274	5·0261
0·9914 0·1305	N7½E	41·716	3·0595	0·4027	41·3869	5·4288
0·9954 0·0958	N5½E	44·788	3·0280	0·2914	44·4149	5·7202
0·9954 0·0958	N5½E	47·788	2·9862	0·2874	*47·4011	6·0076

D.D.H. :- 330

DATE SURVEYED :- 24/4/70

TOTAL DEPTH :- 401'

SURVEYED TO :- 380'

EASTMAN MULTISHOT DRILL HOLE SURVEY

CALCULATION SHEET No. 1

1 Depth	2 Course Length	3 Drift Angle	4 Cosine / Sine of Mean Drift Angle	5 Mean Drift Angle Tangent	6 Vertical Depth	7 True Vertical Depth	8 Course Declination	9 Drift Direction	10 Cosine / Sine of Mean Drift Direction	11 Mean Drift Direction Tangent	12 Deflection	13 Coordinate Difference S	13 Coordinate Difference E	13 Coordinate Difference W	14 Vertical N
		8° 15'	0.9893			315.946			0.9936						
320	20		0.1457	8	22½	~~19.786~~	2.914	N5E	0.1132	N6½E	58.702	2.8953		0.3299		50.2964
		8 30						N8E							
			0.9887			335.720			0.9945						
340	20	8 30	0.1500	8	37½	~~19.774~~	3.000	N6E	0.1045	N6E	53.702	2.9835		0.3135		53.2799
		8 45						N6E							
			0.9880			355.480			0.9954						
360	20	8 45	0.1543	8	52½	~~19.760~~	3.086	N6E	0.0958	N5½E	58.788	3.0718		0.2956		56.3517
		9 0						N5E							
			0.9877			375.234*			0.9962						*
380	20	9 0	0.1564	9	0	~~19.754~~	3.128	N5E	0.0872	N5E	59.916	3.1161		0.2728		59.4678

EASTMAN MULTISHOT DRILL HOL

CALCULATION SHEET No.

: - 24/4/70

401'

380'

EASTMAN MULTISHOT DRILL HOLE SURVEY

CALCULATION SHEET No. 1

4	5	6	7	8	9	10	11	12
Cosine of Mean Drift Angle / ~~Tangent~~	Mean Drift Angle	Vertical Depth	True Vertical Depth	Course Deviation	Drift Direction	Cosine of Mean Drift Direction / ~~Tangent~~	Mean Drift Direction	Deflection
0·9893			315·946			0·9936		
0·1457	8 22½	19·786	~~19·786~~	2·914	N5E	0·1132	N6½E	50·702
					N8E			
0·9887			335·720			0·9945		
0·1500	8 37½	19·774	~~19·774~~	3·000	N6E	0·1045	N6E	53·702
					N6E			
0·9880			355·480			0·9954		
0·1543	8 52½	19·760	~~19·760~~	3·086	N6E	0·0958	N5½E	56·7[illegible]
					N5E			
0·9877			375·234*			0·9962		
0·1564	9 0	19·754	~~19·754~~	3·128	N5E	0·0872	N5E	59·9[illegible]

EASTMAN MULTISHOT DRILL HOLE SURVEY

CALCULATION SHEET No. 2

13	14		15	16
Coordinate Difference			Rectangular Distance	
N	S	W	E	W
2·8953	0·3299		50·2964	6·3375
2·[illegible]835	0·3135		53·2799	6·6510
3·0718	0·2956		56·3517	6·9466
3·1161	0·2728		* 59·4678	7·2194

D.D.H. 330

0 W E N S

100

200

300

400

Theoretical Direction of Hole.

DDH 330

Date Surveyed 24/1/10.
Vertical depth - 401'
Surveyed to 380'
* N.B. This hole was supposed to be an angle hole.
dir^n - N10° E.
∠ of inclination 80°.

N

W

20 | 21 356

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 330' Date Surveyed 24/7/70

Total Depth 401' Depth Surveyed To 380'

Casing Depth 45' Surveyed By V. M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	0	OPEN				22	200	9° 0'	N6E
	1	OPEN				23	220	8 45	N6E
	2	OPEN				24	240	8 45	N7E
	3	CLOSED				25	260	9 0	N6E
	4	"				26	280	8 45	N5E
	5	"				27	300	8 30	N5E
	6	"				28	300	8 30	N5E
	7	"				29	320	8 15	N5E
	8	"				30	340	8 30	N6E
	9	"				31	360	8 45	N6E
	10	"				32	380	9 0	N5E
	11	20	10° 0'	S39E		33	380	9 0	N8E
	12	40	10° 0	S40W		34	360	9 0	N5E
	13	60	10 0	N9E		35	340	8 45	N6E
	14	80	9 45	N7E		36	320	8 30	N8E
	15	100	9 15	N9E		37	300	8 45 (perhaps moving)	N6E
	16	100	9 15	N9E		38	280	8 45	N6E
	17	120	9 0	N4E		39	260	8 45	N8E
	18	140	8 45	N8E		40	240	8 45	N8E
	19	160	8 45	N8E		41	220	8 30	N6E
	20	180	9 0	N6E	*	42	200	8 45 30	N8E
	21	200	9 0	N6E		43	180	9 0	N7E

REMARKS:- THIS HOLE WAS PUT DOWN AT AN L of 80°

90° L UNIT USED

DIAMOND DRILL HOLE BOREHOLE SURVEY

EASTMAN - KODAK MULTISHOT CAMERA

D.D.H. No. 330' Date Surveyed 24/7/70

Total Depth 401' Depth Surveyed To 380'

Casing Depth 45' Surveyed By V. M. FREESTONE

Shot No.	Time	Depth	Defl.	Direct.	Shot No.	Time	Depth	Defl.	Direct
	44	160	8 45	N 5 E					
	45	140	8 45	N 9 E					
	46	120	9 15	N 9 E					
*	47	100	10 0	N 6 E					
	48	80	10 0	N 6 E					
	49	60	9 45	N 7 E					
*	50	40	10 15?	S 17 E					
	51	20	10 0	S 20 E					
	52	CLOSED	10 0 (9 10)						
	53	"							
	54	"							
	55	"							
	56	"							
	57	"							
	58	"							
	59	"							
	60	OPEN							

REMARKS:- THIS HOLE WAS PUT DOWN AT AN L of 80°

90° L UNIT USED.