

157001

GEOPEKO LIMITED

KING ISLAND

REPORT No. KI/75/4

**RESTRICTED  
FILE**

REPORT ON THE STATE OF THE

ORE RESOURCE, No.1 OREBODY,

AS AT OCTOBER 30th 1974.

**MICROFILMED**  
FICHE No. 013140-41  
by

M. J. DANIELSON

KING ISLAND

MARCH 1975

ISG COORDINATES  
REFER REPORT 70-0676

93-3463

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WEDGEBLOCK

Geological Map		KG1 - 104✓
Geological Cross-Section	9	KG1 - 105✓
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	11	KG1 - 107✓
	12	KG1 - 108✓
	13	KG1 - 109✓
	14	KG1 - 110✓
	15	KG1 - 111✓
	16	KG1 - 112✓

ORE RESOURCE TABLE (18.2.75). ✓

LIST OF PLANS

<u>No.1 OREBODY:</u>		<u>Drawing No.</u>
Stratigraphic Succession		KG1 - 1A ✓
Geological Map Open Pit		KG1 - 1 ✓
Geological Cross-Section	00	KG1 - 2 ✓
	1S	KG1 - 3 ✓
	2S	KG1 - 4 ✓
	3S	KG1 - 5 ✓
	5	KG1 - 6 ✓
	6	KG1 - 7 ✓
	7	KG1 - 8 ✓
	8	KG1 - 9 ✓
	9	KG1 - 10 ✓
	10	KG1 - 11 ✓
	11	KG1 - 12 ✓
	12	KG1 - 14 ✓
	12½	KG1 - 15 ✓
	13	KG1 - 16 ✓
	13½	KG1 - 17 ✓
	14	KG1 - 18 ✓
	14½	KG1 - 19 ✓
	15	KG1 - 20 ✓
	16	KG1 - 114 ✓
	17	KG1 - 115 ✓
	18	KG1 - 117 ✓
	19	KG1 - 118 ✓
	20	KG1 - 119 ✓
	21	KG1 - 120 ✓
	22	KG1 - 121 ✓
Geological Plan -100m R.L.		KG1 - 124 ✓

INTRODUCTION

On October 29th, 1974 the open pit officially ceased production ending approximately 37 years of almost continuous mining activity. Ore mined in this period is estimated at 6,290,000 tonnes at an average grade of 0.53% tungstic oxide. Overburden removed has been 21,840,000 tonnes.

An ore resource exceeding half a million tonnes at an average grade of 0.6%  $WO_3$  remains, mostly in the floor of the open pit and the potential for any continued mining operations lies in being able to extract the better parts of this resource by underground methods; access being available from the Dolphin Mine. This report examines the resource remaining and makes recommendations for upgrading the definition of some of the resource to permit underground extraction.

A final report on the Wedgeblock is included.

SUMMARY

The No.1 Orebody is defined as that ore west of 219880 E to drill section 22 and includes any ore within the Wedgeblock.

The probable ore resource remaining in the No.1. Orebody at the cessation of mining operations on October 29th 1974 is estimated at -

B lens		15,070 tonnes	1.09%	WO <sub>3</sub>
C lens	(219880E - drill section 15)	551,220	"	0.60 "
Western Extension (drill section 15 - 22)		48,700	"	0.62 "
Wedgeblock		147,310	"	0.52 "

A probable ore resource of 207,180 tonnes at an average grade of 0.56% WO<sub>3</sub> is estimated between sections 7 - 10. The major part of this ore is built up around section 9 and occurs above the -100m R.L. This resource is considered to contain a potential mining reserve.

Definition of the potential mining reserve indicated by section 9 is poor due to the wide section spacing (approximately 40m) and the lack of information on section 8 where a major aplite dyke obscures much of the section. Drilling on half sections (approximately 20m) will be required to adequately define this resource for mining purposes.

A drill drive of approximately 400 metres length is proposed to be developed westward from the Dolphin Mine to section 10 at the -100m R.L. An oreblocking programme of 28 holes totalling 1130 metres is proposed of which 9 holes totalling 415 metres could be drilled from the surface.

There is considered to be no potential for an underground mining operation beneath the floor of the open pit west of section 10.

Both B lens and Western Extension ore resources are made up of extremely variable grade and stringy mineralization. Past experience has shown these two ore sources to be uneconomic mining operations by open cut methods.

An ore reserve of 10,000 tonnes at an average grade of 0.5% WO<sub>3</sub> is estimated on 9 and 10 bench in the Wedgeblock. Access to these benches would need to be re-established to permit mining of this reserve. It is probable that this ore has a high Mo content. The method of ore reserve calculation was identical to that used for a mining block in the Open Pit.

CONCLUSIONS

The section spacing (approximately 40m) used to define the No.1 Orebody for open cut mining is considered inadequate to permit underground mining to proceed with confidence.

Diamond drilling at approximately 20m cuddy spacing will be required to adequately define the ore resource about section 9.

The stringy and low grade nature of the C lens mineralization west of section 10 is unlikely to constitute a mining reserve.

There is no potential for any significant increase to the No.1 Orebody ore resource. Further drilling is required to secure a proven resource and a mining reserve.

RECOMMENDATIONS

A drive be developed from the Dolphin Mine westward to section 10 at the -100m R.L.

Diamond drill coddies be cut on each principal section and on half sections  $7\frac{1}{2}$ ,  $8\frac{1}{2}$  and  $9\frac{1}{2}$ .

A program of 23 holes totalling 1130 metres be drilled to define the potential ore reserve indicated by section 9 and to complete the definition of the Pit Extension Dolphin Orebody.

The C lens ore exposed on 9 and 10 bench in the Wedgeblock be assayed for Mo.

ACTION SHEET

No.1 OREBODYDefinition

The No.1 Orebody of King Island Scheelite Limited was originally defined as that ore enclosed within drill sections 00 - 22 inclusive. However with the cessation of mining operations in the open pit all ore east of 219880 E was transferred to the Dolphin Orebody resource as it was considered that this ore would be readily accessible from the Dolphin workings.

The No.1 Orebody is now defined as that ore west of 219880 E to drill section 22 and includes any ore within the Wedgeblock.

Geology

The No.1 Orebody was worked by open pit methods to a final depth of 66m below sea level in the eastern end and was mined over a strike length of 500m at the -36m reference level.

The mineable ore was mostly confined to two horizons, the Upper and Lower C lens with minor tonnages being worked from the pyroxene garnet hornfels and the banded footwall beds. Ore grades in the Upper C lens in the eastern end at times exceeded 1% tungstic oxide but grades diminished downdip to the granodiorite basement and westward where the horizon was often completely unmineralized. The Lower C lens was of a lesser grade, usually less than 0.6% tungstic oxide but often carried the major part of the mineralization particularly in the western end.

The strike of the beds is uniformly  $290^{\circ}$  (I.S.G.) with a swing to  $050^{\circ}$  (I.S.G.) in the eastern end. Beds dip south at  $30^{\circ}$  -  $50^{\circ}$ . The principal structure is interpreted as an anticline plunging southeast at  $30^{\circ}$  with the eastern limb of the structure having been removed by the No.3 Fault. There is a high degree of faulting within the orebody but most faults have a relative movement of less than 10m.

In the centre and western part of the open pit a block of mine series is down thrown approximately 35m into the footwall and is known as the Wedgeblock. This structure will be discussed in more detail in a later section.

The stratigraphy of the No.1 Orebody is illustrated in drawing No. KG1 - 1A and is fully described by earlier workers (Edwards, Baker and Callow, 1956).

### Ore Potential

During 1971 - 72 an intensive diamond drill programme was conducted over the No.1 Orebody and 35 holes totalling 1673 metres were drilled. All holes in this series are numbered in the 400 series. Most of the drilling took place in the western end where half sections 11½, 12½, 13½ and 14½ were created but some drilling also took place on the principal sections to more correctly define ore outlines and examine the potential for any addition to the ore resource. On completion of this drilling programme it was considered that no potential existed for any significant increase to the ore resource and that further drilling would only more accurately define the resource as already outlined. All drill sections with the exception of 11½ (1 hole), 15 + 30 (2 holes) and 17 + 80 (1 hole) are included in this report.

As economic considerations now prevent the extraction of ore by open cut methods such ore as can be mined in the future will be removed by underground methods and will probably need to be readily accessible to the Dolphin workings.

The ore resource of the No.1 Orebody (excluding the Wedge-block) is calculated at -

B lens	15,070 tonnes @ 1.09% WO <sub>3</sub>
C lens (219380E drill section 15)	551,220 " " 0.60% "
Western Extension (drill section 15 - 22)	48,700 " " 0.62% "

Of the C lens ore resource 207,180 tonnes (i.e. 37% of the total resource tonnage) at an average grade of 0.66% WO<sub>3</sub> is defined between sections 7 and 10 with the major part of the tonnage built up around section 9. It is evident from section 9 that an underground mineable ore reserve exists in this area but exact definition of the resource is difficult due to the wide drill section spacing (approximately 40m) and that section 8 is of little use in ore resource estimation due to much of the section being obscured by a major aplite dyke running sub parallel to the section. More detailed ore definition is required in this area to define this potential mineable reserve with a high degree of confidence.

West of section 10 C lens is too stringy and low grade to have any potential as a mineable underground ore source.

The variable nature of the mineralization in B lens and the Western Extension combined with past mining experience in these areas is sufficient to discount these two resources as a mineable proposition.

Proposed diamond drilling programme

To more adequately define the potential ore source as indicated by section 9 an oreblocking programme is proposed as set out below. It is considered essential that the oreblocking be conducted at half section spacing (approximately 20m) between sections 7 and 10 allowing that section 8 is of little value in definition of the ore outlines.

It can be seen that some drilling is proposed on drill sections 00, 1S, 2S, 3S and 5 (by definition the Dolphin Orebody) but these holes are essential for ore definition in what is known as the Pit Extension area.

Section	Underground drilling		Surface drilling	
	No. of holes	Total m.	No. of holes	Total m.
00	2	75		
1S	2	75		
2S	2	45		
3S	1	20	1	60
5	1	15		
6			1	35
7	1	20	1	20
7½	2	100	2	100
8				
8½	2	100	2	100
9	2	70		
9½	2	100	2	100
10	2	95		
	19	715	9	415

No. of holes : 28  
Total metreage: 1130

A drill drive of approximately 400m length is proposed in the footwall of C lens at -100m R.L. (drawing No. KG1 - 124).

### WEDGEBLOCK

During late 1972 a reappraisal of the Wedgeblock was undertaken to upgrade the level of definition to that of the remainder of the No.1 Orebody. The area was remapped and much of the earlier drilling relogged where core was still available. Diamond drill holes 69 - 74 inclusive were reassayed as previous 'assays' were visual estimates only. This work was reported on by Mr P. Cottam (November, 1972) and J. Innes (January, 1973) and recommendations made to complete the study. In early 1973 three short D.D.H.'s were drilled on sections 13, 14 and 16 and a line of nine auger holes were drilled between sections 16 and 17. The following sections review the more recent work and summarize the geological situation and ore potential of the Wedgeblock.

#### Structure

The wedgeblock is a sequence of mine series rocks down-thrown approximately 35m by the No.2 Fault and bounded in the north by the No.3 Fault which upthrows the underlying quartzite (drawing No. KG1 - 1). The northward dip of the No.2 Fault and the southward dip of the No.3 Fault give the block its wedge shaped form.

The No.2 Fault strikes uniformly northwest and dips north east at  $50^{\circ}$  -  $55^{\circ}$ . A well defined breccia zone is developed on benches 7 and 8 west of 219650 E and a series of stratigraphically anomalous fragmental rocks, similar in appearance to the pyroxene garnet hornfels, occur on the sole of the fault. These rocks are interpreted as a thrust sheet. The No.3 Fault also strikes north west and dips steeply south at  $70^{\circ}$  -  $80^{\circ}$ .

Within the block the primary structure is a W.N.W. trending anticlinal flexure developed on the southern flank of the southward dipping strata of the No.1 Orebody. The amplitude of the fold decreases westward and in the east is terminated against the No.3 Fault.

Faulting within the block is complex. An easterly trending fault ('A' Fault) is inferred along 9 and 10 bench and terminates mineralization in the south. Relative movement south block up must exceed 25m. Faults 'B' and 'C' are readily mappable features and their relative movements are clearly seen on sections 11 and 12 respectively. Fault 'D' is largely inferred but a fault of such magnitude would be required to explain the relative position of hangingwall biotite hornfels and the highly weathered C lens garnet hornfels (or pyroxene garnet hornfels) on 5 bench. The strike of such a fault is unclear as no corresponding fault is mapped on 6 bench.

Continuation of the wedgeblock northwest beyond section 16 is obscured by soil cover but little ore potential exists in this area unless it could be shown that the anticlinal flexure continued and the northern limb dipped north under the township. A line of nine auger holes were drilled between sections 16 and 17 north of 564450N to examine this possibility but all encountered quartzites which were interpreted as the stratigraphic basal quartzites which precluded the possibility of a northern limb to the anticlinal flexure.

### Stratigraphy

Within the wedgeblock the complete stratigraphic sequence is present with the exception of the Upper metavolcanics and the B lens host rocks i.e. the upper part of the stratigraphic column.

The rock units present are characteristic of the No.1 Orebody whose stratigraphy has been described in detail by earlier workers (Edwards, Baker and Callow, 1956). The most significant variation is that the Upper C lens is either absent or very thin (<3m) and the marble marker is not observed. The C lens sequence is made up mostly of a medium to fine grained marble or andradite skarn containing thin (approximately 1cm) interbeds of biotite and pyroxene hornfels whose frequency increases with depth where the unit grades into the banded footwall sequence.

### Mineralization

Mineralization in the wedgeblock is similar in appearance to that in the western end of the No.1 Orebody. There are broad similarities in the absence of any high grade Upper C lens orebody and the discontinuous and stringy nature of the mineralization in the Lower C lens interspersed with barren beds of silicate hornfels.

Wedgeblock ore is reported to be high in molybdenum (personal communication with K.I.S. mining engineers) although very few of the diamond drill holes have been assayed for Mo. Plates of molybdenite can be seen on joint surfaces throughout the whole of the wedgeblock sequence down into the underlying quartzites.

Pyrite and pyrrhotite are common accessories in the skarn.

### Ore Potential

The Wedgeblock is calculated as possessing a probable ore resource of 147,310 tonnes at an average grade of 0.52%  $WO_3$ . Extensive diamond drilling of the area excludes the possibility of any significant increase to the ore resource although potential exists for limited increases between faults 'B' and 'D' northwest of section 11.

An ore reserve of 10,000 tonnes at an average grade of 0.5%  $WO_3$  is estimated. This tonnage would be available from 9 and 10 bench although the economics of re-establishing access to these benches coupled with the uncertainty of the ore and probably high Mo content make it unlikely that the reserve will be mined. Mining operations ceased in this area in 1970 supposedly due to the high Mo content in the ore.

There is no potential for an underground mining operation.

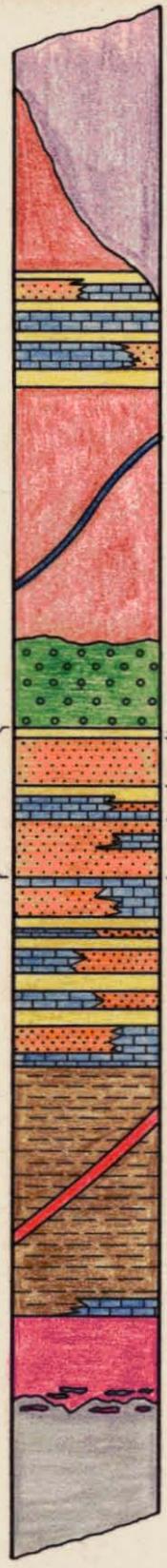


M.J. Danielson.  
Mine Geologist.

basic dyke

bh/ph  
garnet skarn  
bh/ph -  
marble  
garnet skarn

oplite



UPPER METAVOLCANICS

BANDED HORNFELS

B LENS

BIOTITE HORNFELS

PYROXENE GARNET HORNFELS

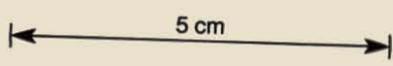
Upper C Lens  
Lower C Lens  
C LENS

BANDED FOOTWALL BEDS

BIOTITE PYROXENE HORNFELS

LOWER METAVOLCANICS

QUARTZITE



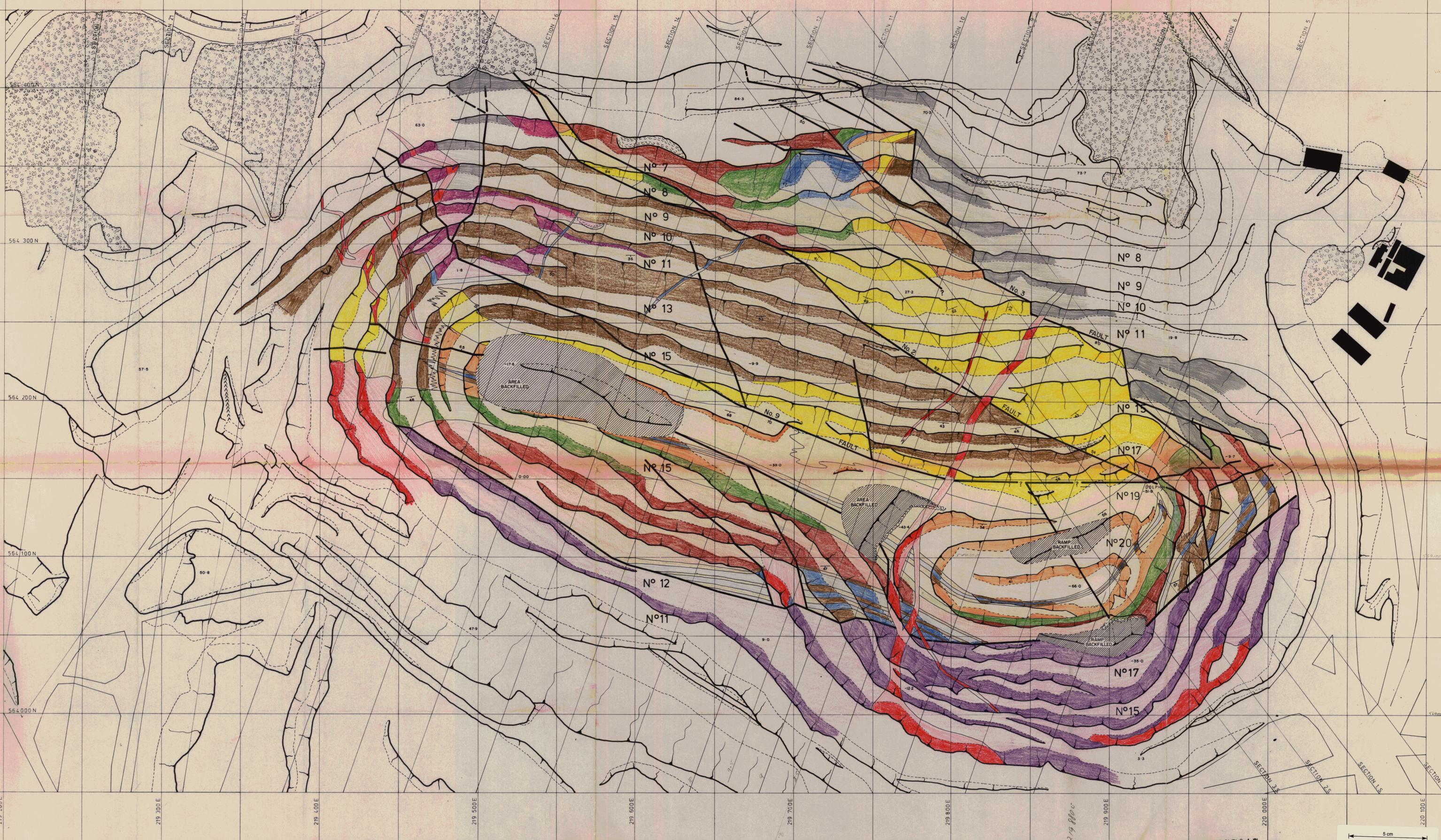
GEOPEKO LIMITED  
KING ISLAND

Scale: 1:1000

No KGI-1A

DATE: 1975  
GEOL: —  
DWN: R.F.  
CHKD: M.C.R.

Nos. 1 and 2 Orebodies  
STRATIGRAPHIC SUCCESSION



**LEGEND:**


ISG REFER REPORT 70-0676

No. 1 ← D

157017



**93-3463**

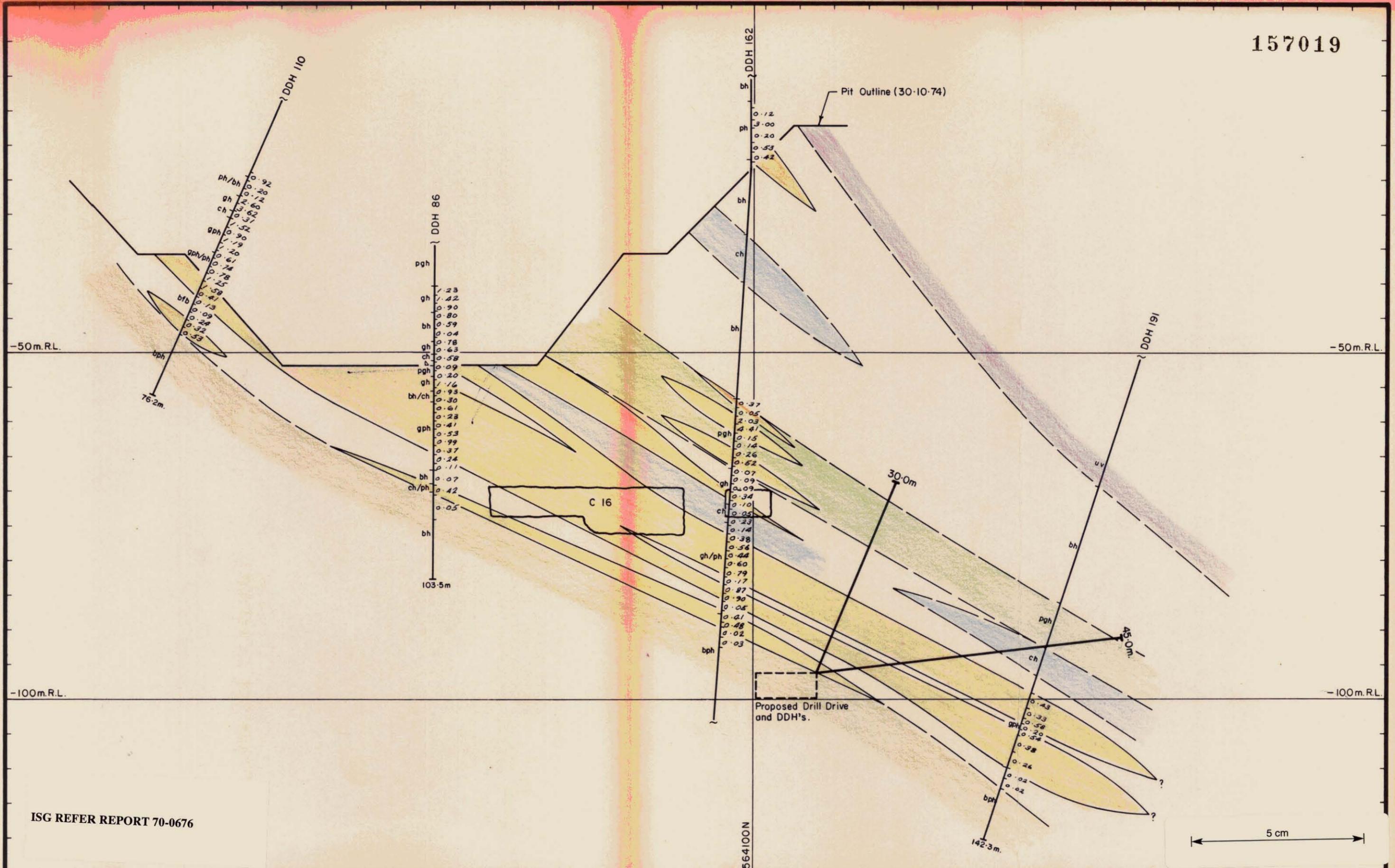
GEOPEKO LIMITED  
KING OF THE HILLS

No. 1 Orebody  
GEOLOGICAL MAP  
OPEN PIT

DATE 30/10/70  
GEOLOGICAL MAPPING  
DWN: R.F.  
CHKD: M.J.D.

Scale: 1:1000  
NO KGI-1

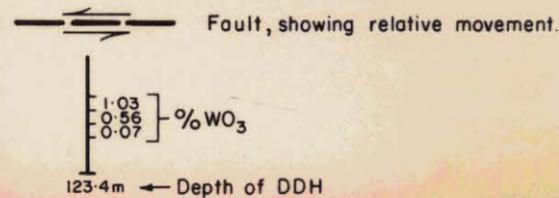




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DATE: 30-10-74  
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 DWN: R.F.  
 CHKD: M.J.D.

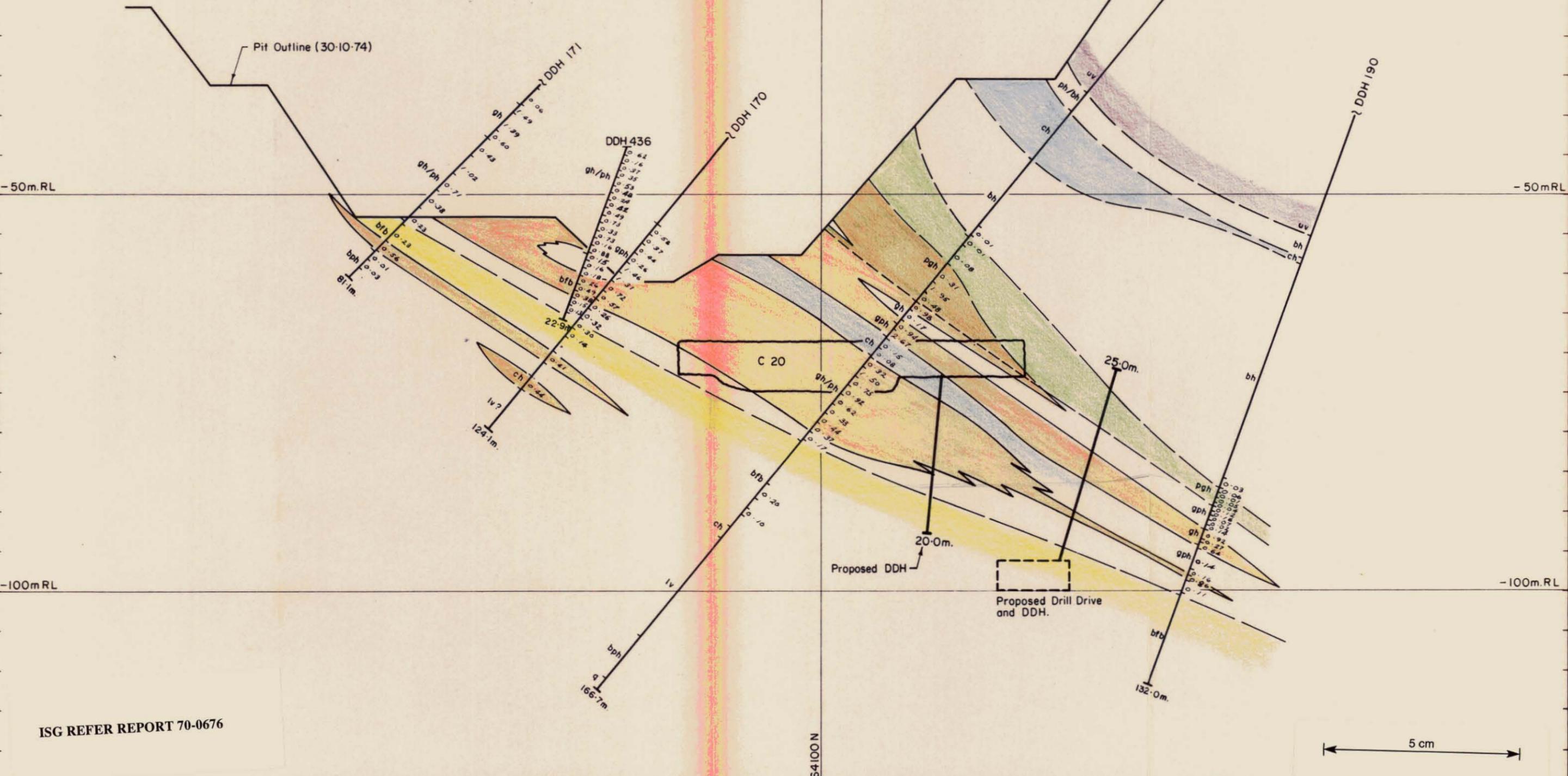
GEOPEKO LIMITED  
 KING ISLAND

Scale: 1:500 No. KGI-3

No. 1 Oreboddy  
**GEOLOGICAL CROSS SECTION**  
 IS

564100 N

564100 N



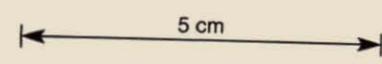
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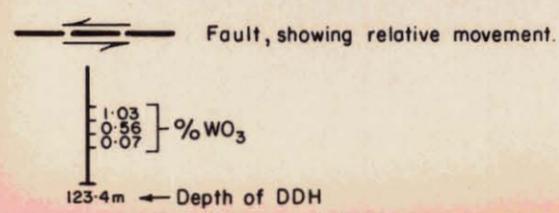
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ISG REFER REPORT 70-0676



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<span style="display:inline-block; width:10px; height:10px; background-color:lightblue; border:1px solid black;"></span> bh	Biotite hornfels	<span style="display:inline-block; width:10px; height:10px; background-color:yellow; border:1px solid black;"></span> bfb	Banded footwall beds	<span style="display:inline-block; width:10px; height:10px; background-color:white; border:1px solid black;"></span> gr	Granite
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DATE: 30-10-74  
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 DWN: R.F.  
 CHKD: M.J.D.

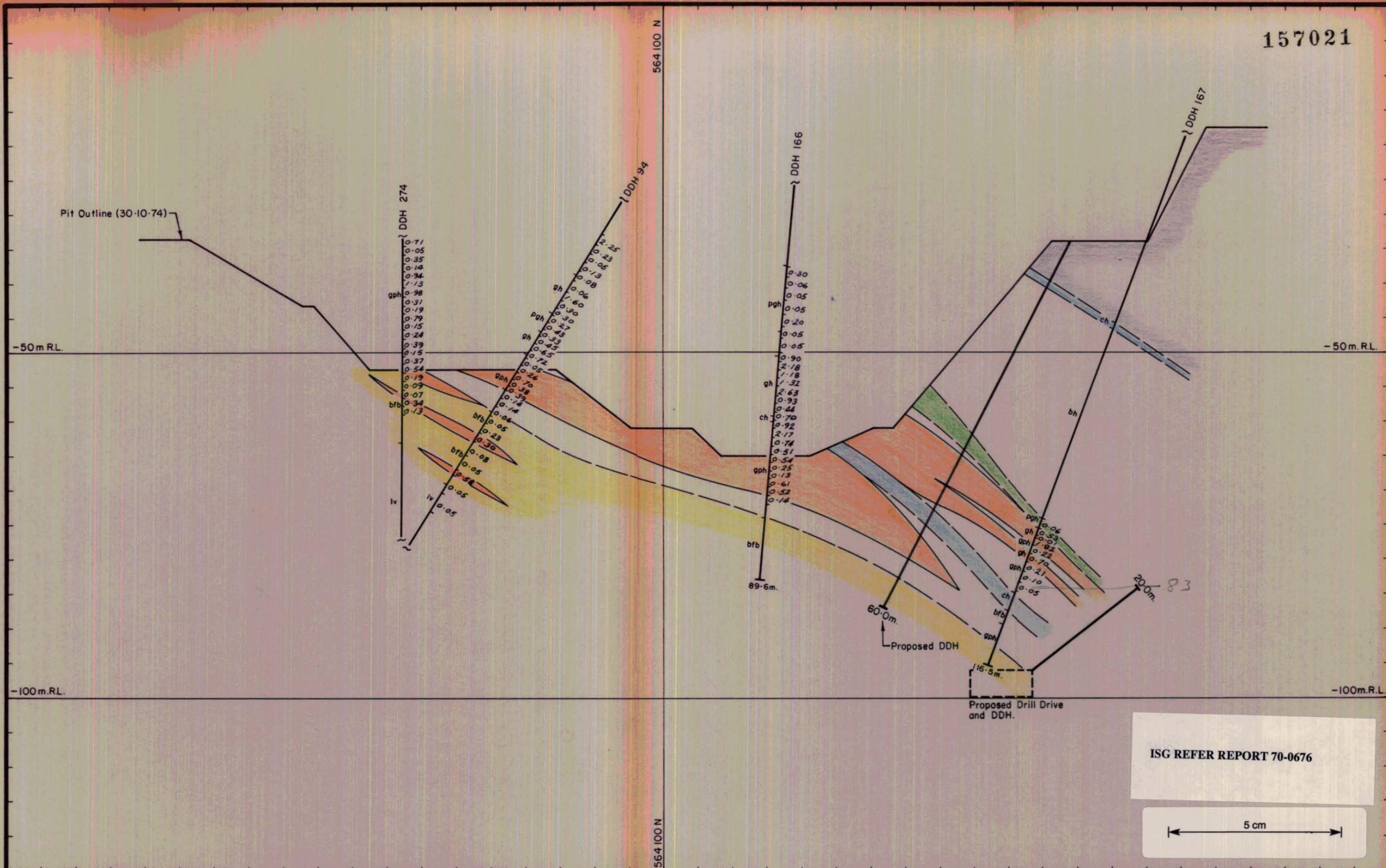
GEOPEKO LIMITED  
 KING ISLAND

Scale: 1:500

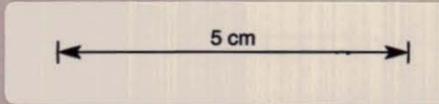
No. 1 Oreboddy

**GEOLOGICAL CROSS SECTION**

2 S



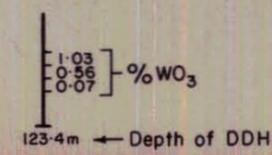
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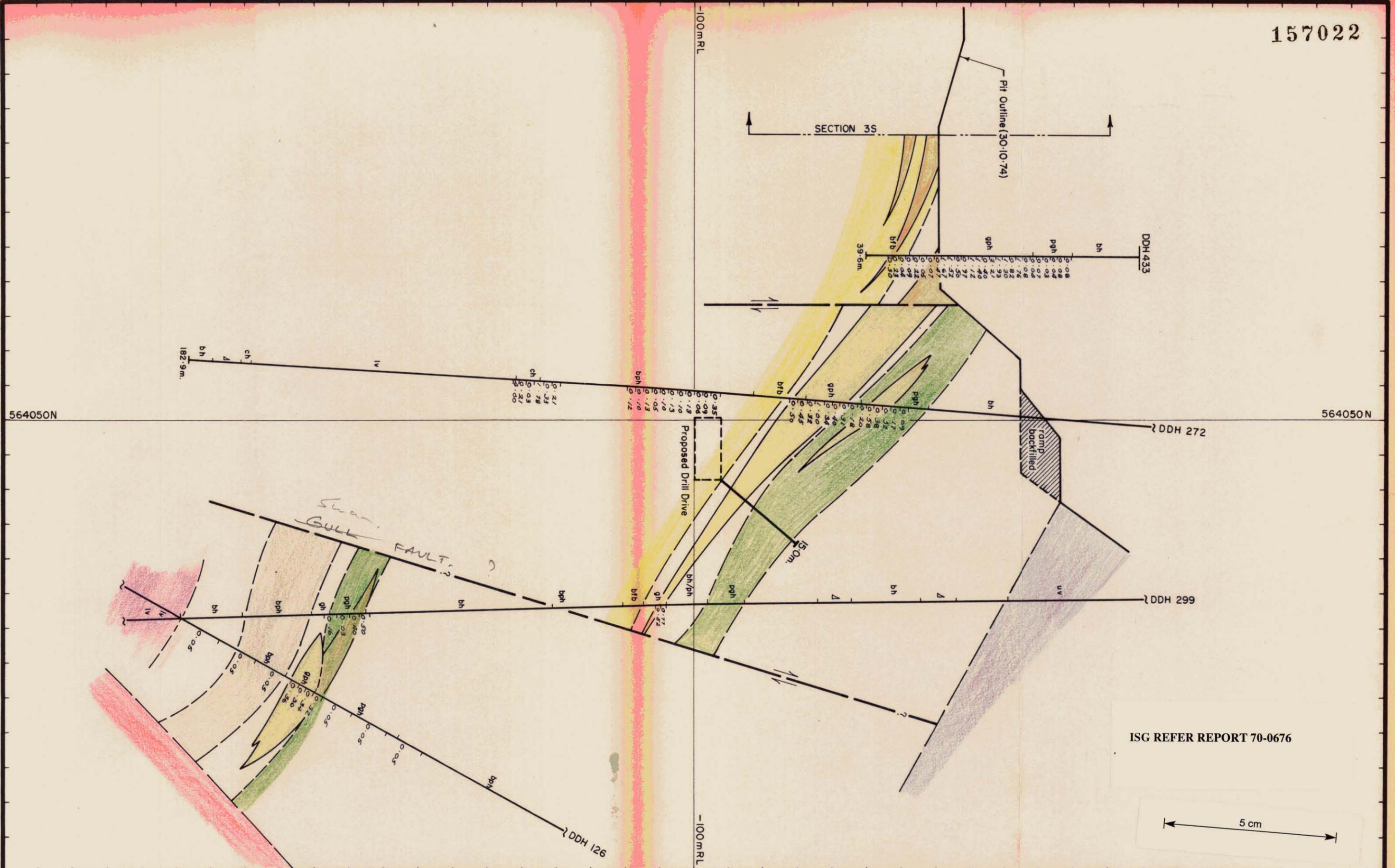
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| <span style="display: inline-block; width: 15px; height: 10px; background-color: #d9ead3; border: 1px solid black;"></span> bh  | Biotite hornfels         | <span style="display: inline-block; width: 15px; height: 10px; background-color: #d9ead3; border: 1px solid black;"></span> bfb | Banded footwall beds      | <span style="display: inline-block; width: 15px; height: 10px; background-color: #d9ead3; border: 1px solid black;"></span> gr | Granite   |
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| <span style="display: inline-block; width: 15px; height: 10px; background-color: #d9ead3; border: 1px solid black;"></span> gh  | Garnet hornfels          | <span style="display: inline-block; width: 15px; height: 10px; background-color: #d9ead3; border: 1px solid black;"></span> lv  | Lower metavolcanics       |  |           |

Fault, showing relative movement.

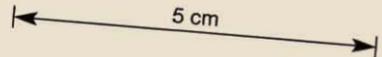


DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

GEOPEKO LIMITED  
 KING ISLAND  
 Scale: 1:500  
 No. KGI-5  
**No. 1 Orebody**  
**GEOLOGICAL CROSS SECTION**  
**3 S**

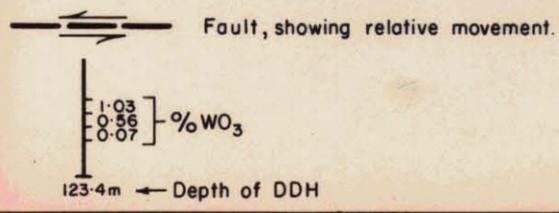


ISG REFER REPORT 70-0676



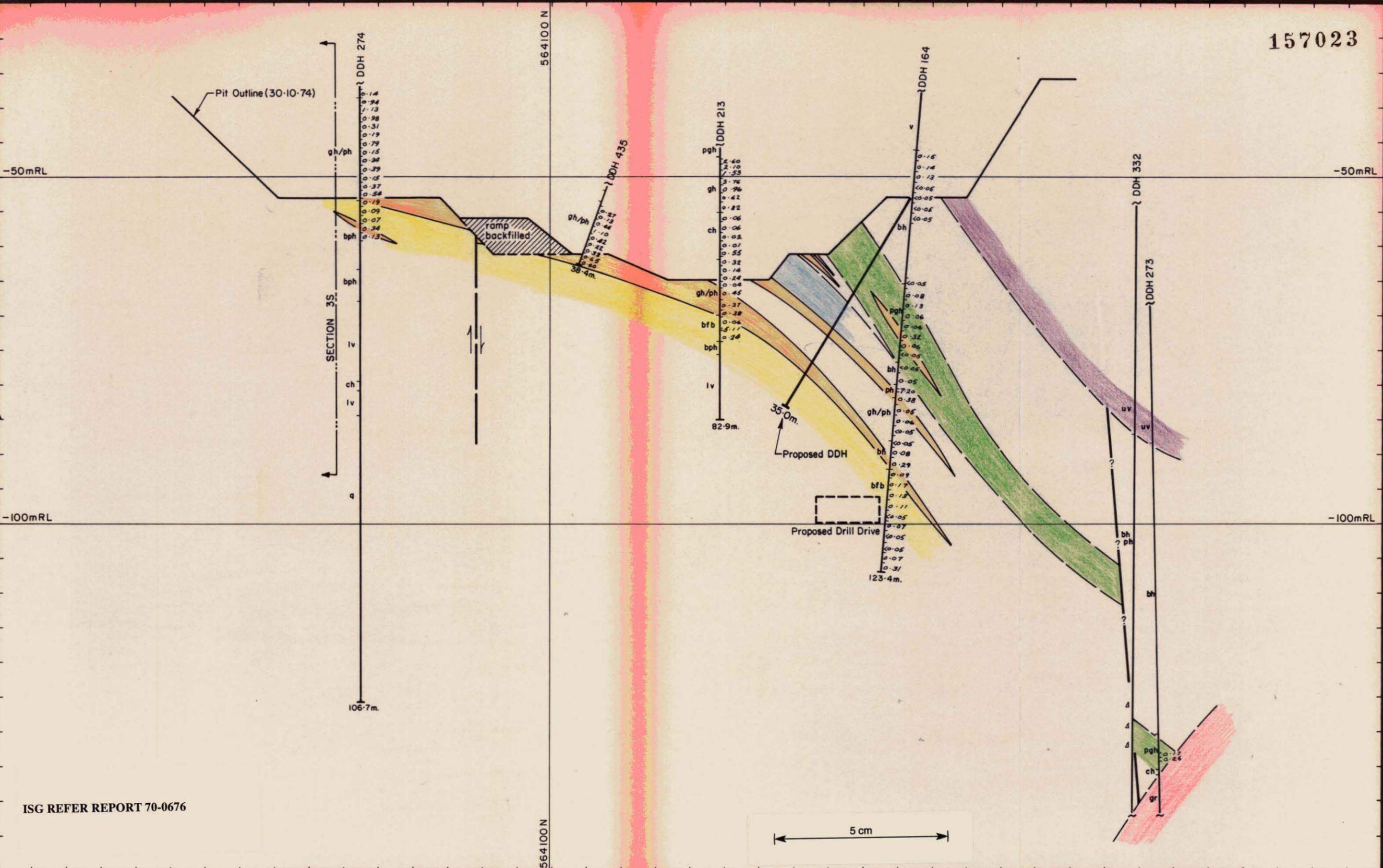
LEGEND:

	Upper metavolcanics		Marble		Quartzite
	Biotite hornfels		Banded footwall beds		Granite
	Pyroxene garnet hornfels		Biotite pyroxene hornfels		Aplite
	Garnet hornfels		Lower metavolcanics		



DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

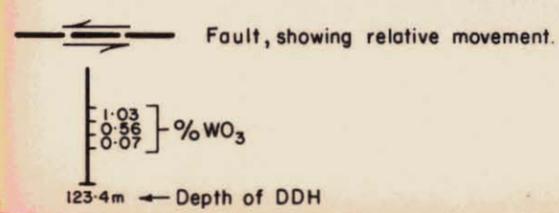
GEOPEKO LIMITED  
 KING ISLAND  
 Scale: 1:500  
 No. 1 Orebody  
**GEOLOGICAL CROSS SECTION**  
 5



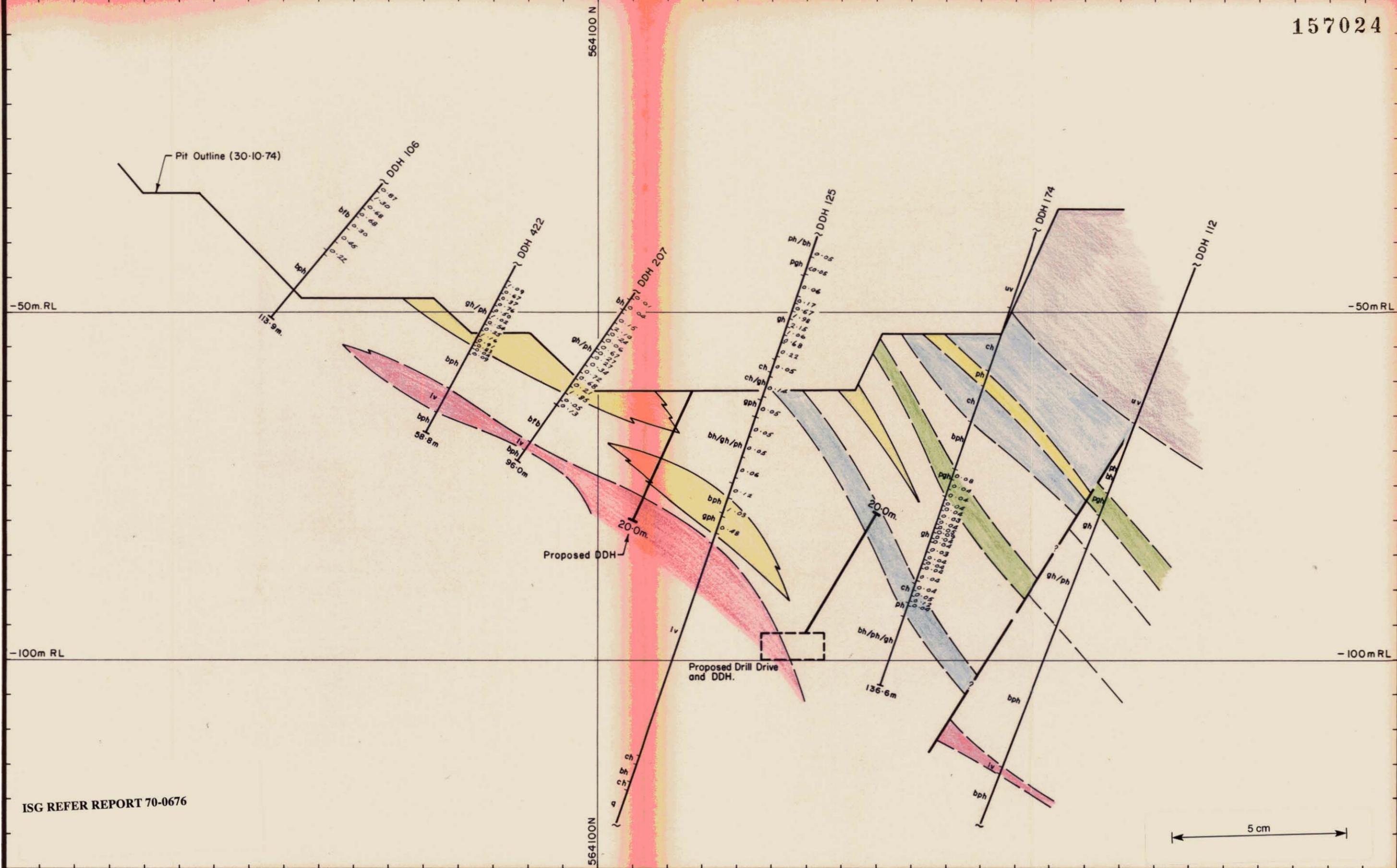
ISG REFER REPORT 70-0676

LEGEND:

uv	Upper metavolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
pgh	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metavolcanics		



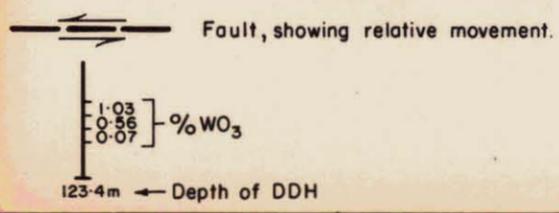
	GEOPEKO LIMITED KING ISLAND	
	Scale: 1:500	No KGI-7
	No. 1 Oreboddy	
	GEOLOGICAL CROSS SECTION	
DATE: 30-10-74		
GEOL: M.J.D.		
DWN: R.F.		
CHKD: M.J.D.		
		6



ISG REFER REPORT 70-0676

**LEGEND:**

<span style="background-color: #cccccc; border: 1px solid black; padding: 2px;">uv</span> Upper metavolcanics	<span style="background-color: #add8e6; border: 1px solid black; padding: 2px;">ch</span> Marble	<span style="border: 1px solid black; padding: 2px;">q</span> Quartzite
<span style="background-color: #ccccff; border: 1px solid black; padding: 2px;">bh</span> Biotite hornfels	<span style="background-color: #ccccff; border: 1px solid black; padding: 2px;">bfb</span> Banded footwall beds	<span style="border: 1px solid black; padding: 2px;">gr</span> Granite
<span style="background-color: #90ee90; border: 1px solid black; padding: 2px;">pgh</span> Pyroxene garnet hornfels	<span style="background-color: #ccccff; border: 1px solid black; padding: 2px;">bph</span> Biotite pyroxene hornfels	<span style="border: 1px solid black; padding: 2px;">ap</span> Aplite
<span style="background-color: #ffcccc; border: 1px solid black; padding: 2px;">gh</span> Garnet hornfels	<span style="background-color: #ffcccc; border: 1px solid black; padding: 2px;">lv</span> Lower metavolcanics	



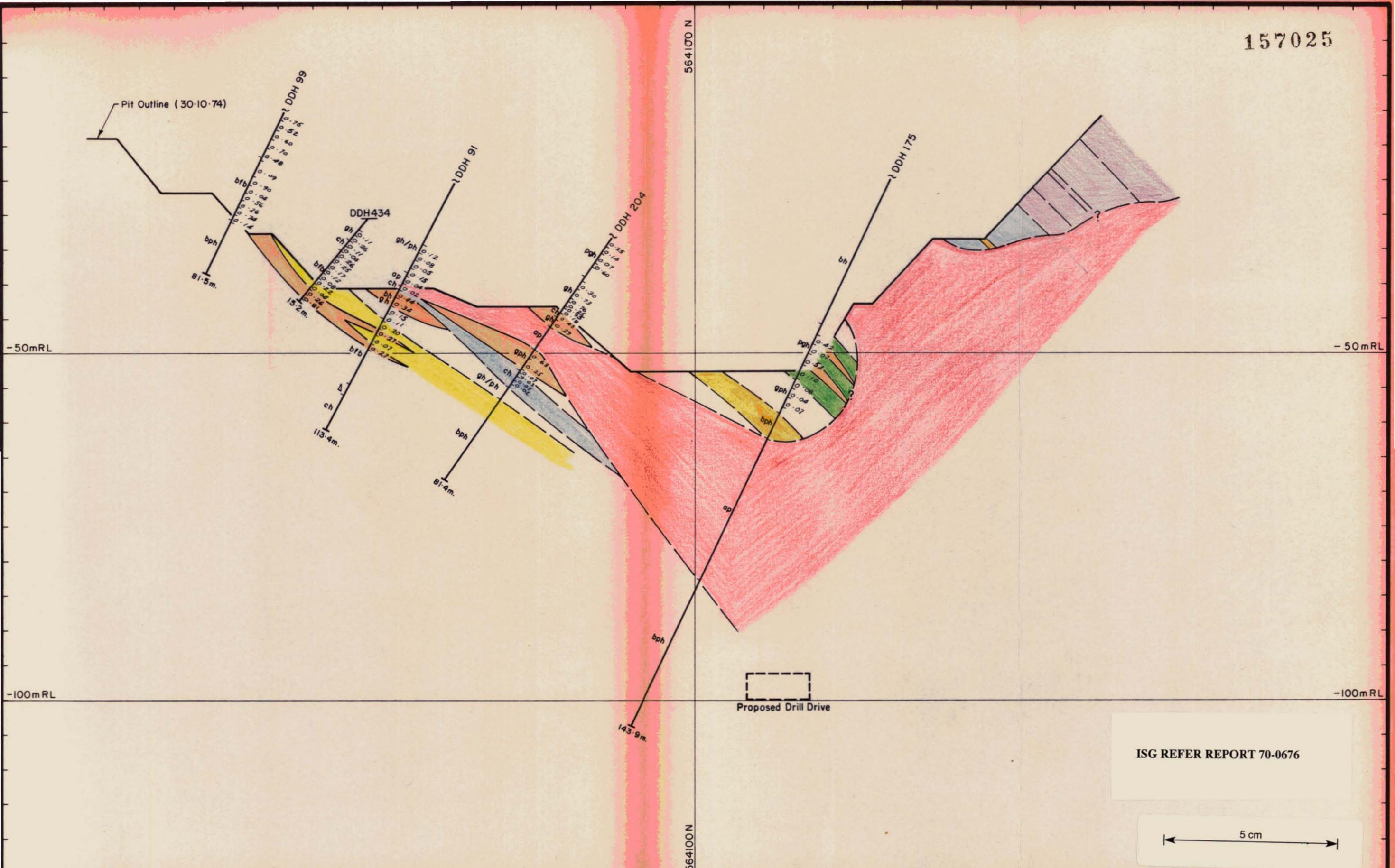
  
 DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

GEOPEKO LIMITED  
KING ISLAND

Scale: 1:500

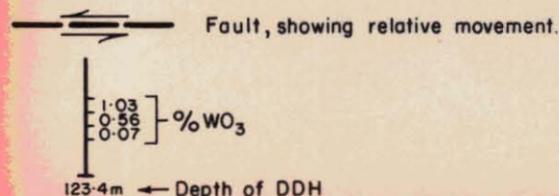
No. 1 Orebody  
**GEOLOGICAL CROSS SECTION**  
7

Nº KGI - 8



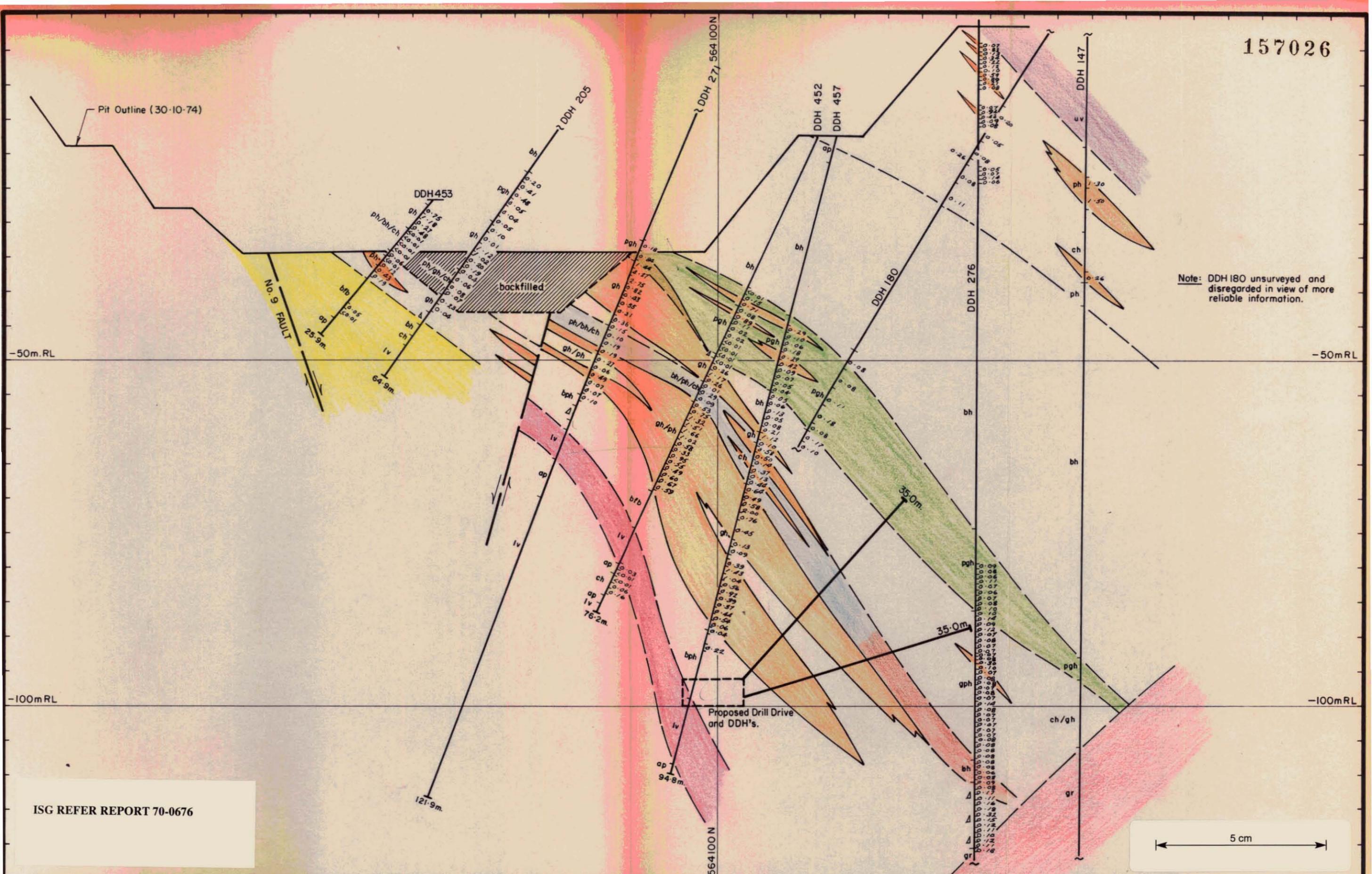
LEGEND:

	Upper metavolcanics		Marble		Quartzite
	Biotite hornfels		Banded footwall beds		Granite
	Pyroxene garnet hornfels		Biotite pyroxene hornfels		Aplite
	Garnet hornfels		Lower metavolcanics		



DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

GEOPEKO LIMITED  
 KING ISLAND  
 Scale: 1:500  
 No. KGI-9  
**No. 1 Orebody**  
**GEOLOGICAL CROSS SECTION**  
**8**

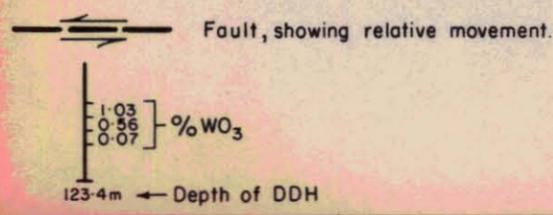


Note: DDH 180 unsurveyed and disregarded in view of more reliable information.

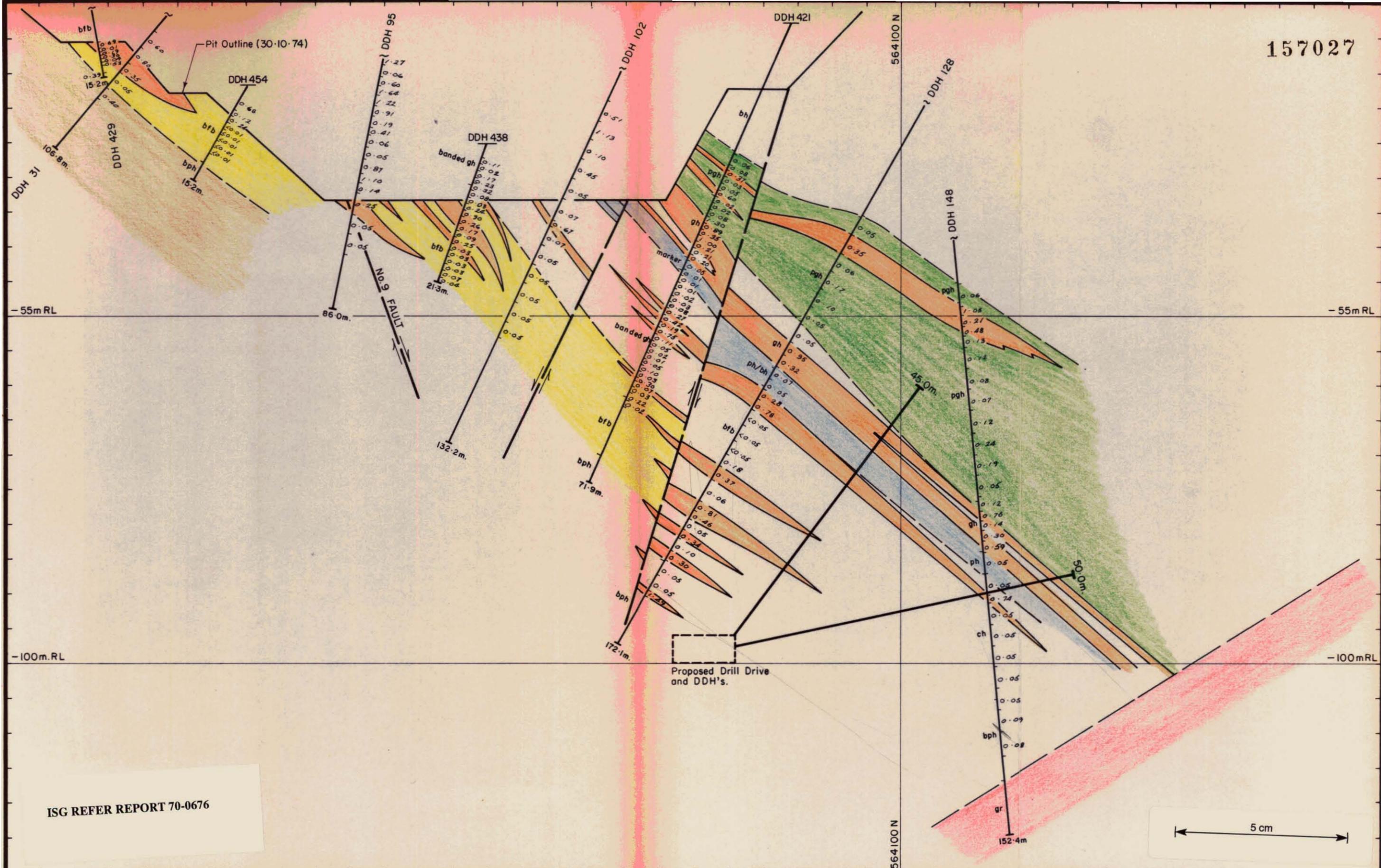
ISG REFER REPORT 70-0676

LEGEND:

Upper metvolcanics	Marble	Quartzite
Biotite hornfels	Banded footwall beds	Granite
Pyroxene garnet hornfels	Biotite pyroxene hornfels	Aplite
Garnet hornfels	Lower metvolcanics	



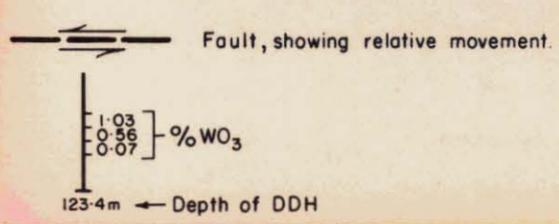
GEOPEKO LIMITED KING ISLAND	
Scale: 1:500	No KGI-10
No. 1 Oreboddy	
GEOLOGICAL CROSS SECTION	
9	
DATE: 30-10-74	
GEOL: M.J.D.	
DWN: R.F.	
CHKD: M.J.D.	



ISG REFER REPORT 70-0676

LEGEND:

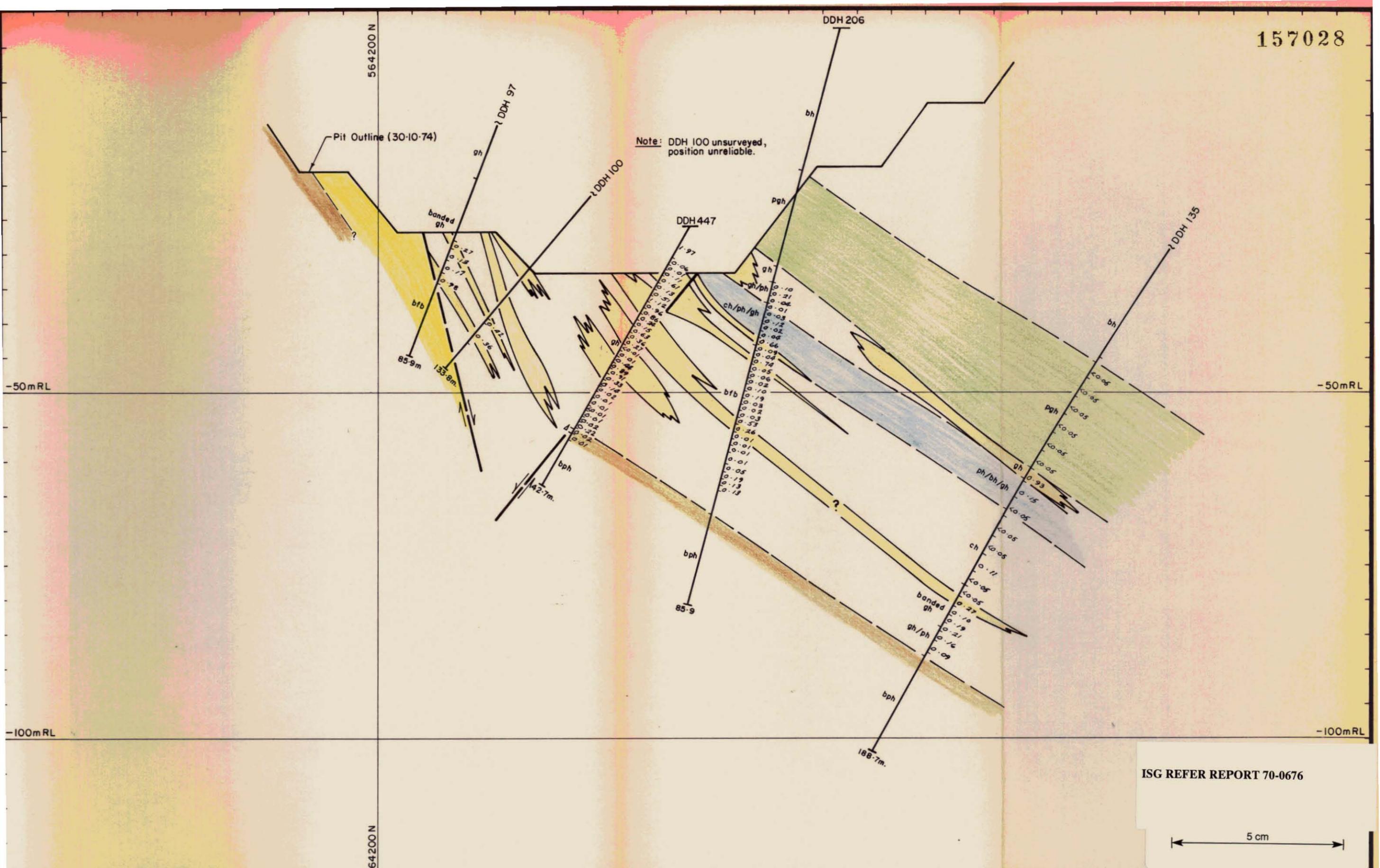
uv	Upper metavolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
pgh	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metavolcanics		



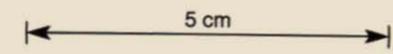
DATE: 30-10-74  
GEOLOG: M.J.D.  
DWN: R.F.  
CHKD: M.J.D.

GEOPEKO LIMITED  
KING ISLAND  
Scale: 1:500  
Nº KGI-II

No. 1 Orebody  
GEOLOGICAL CROSS SECTION  
10

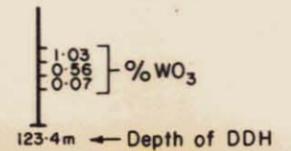
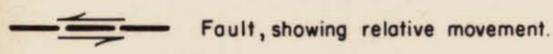


ISG REFER REPORT 70-0676



LEGEND:

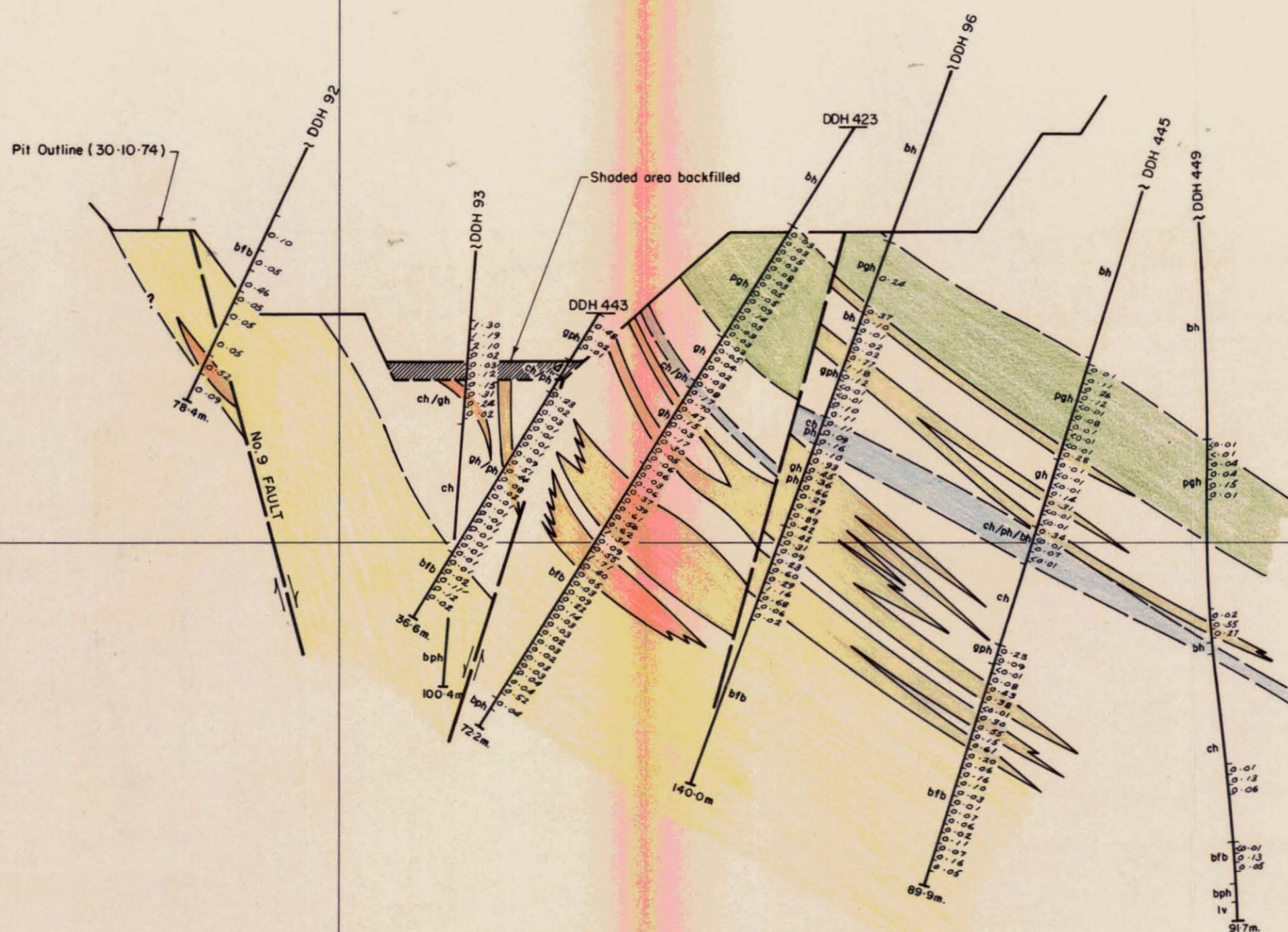
uv	Upper metavolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
pgh	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metavolcanics		



GEOPEKO LIMITED  
KING ISLAND  
Scale: 1:500  
No KGI-12

DATE: 30-10-74  
GEOLOGIST: M.J.D.  
DRAWN: R.F.  
CHECKED: M.J.D.

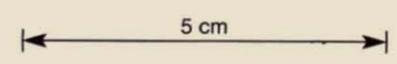
No. 1 Orebody  
GEOLOGICAL CROSS SECTION  
11



-50mRL

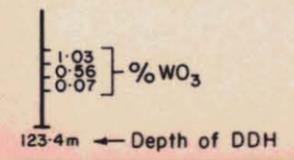
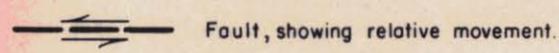
-50mRL

ISG REFER REPORT 70-0676



LEGEND:

uv	Upper metavolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
pgh	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metavolcanics		



DATE: 30-10-74  
GEOLOGICAL: M.J.D.  
DRAWN: R.F.  
CHECKED: M.J.D.

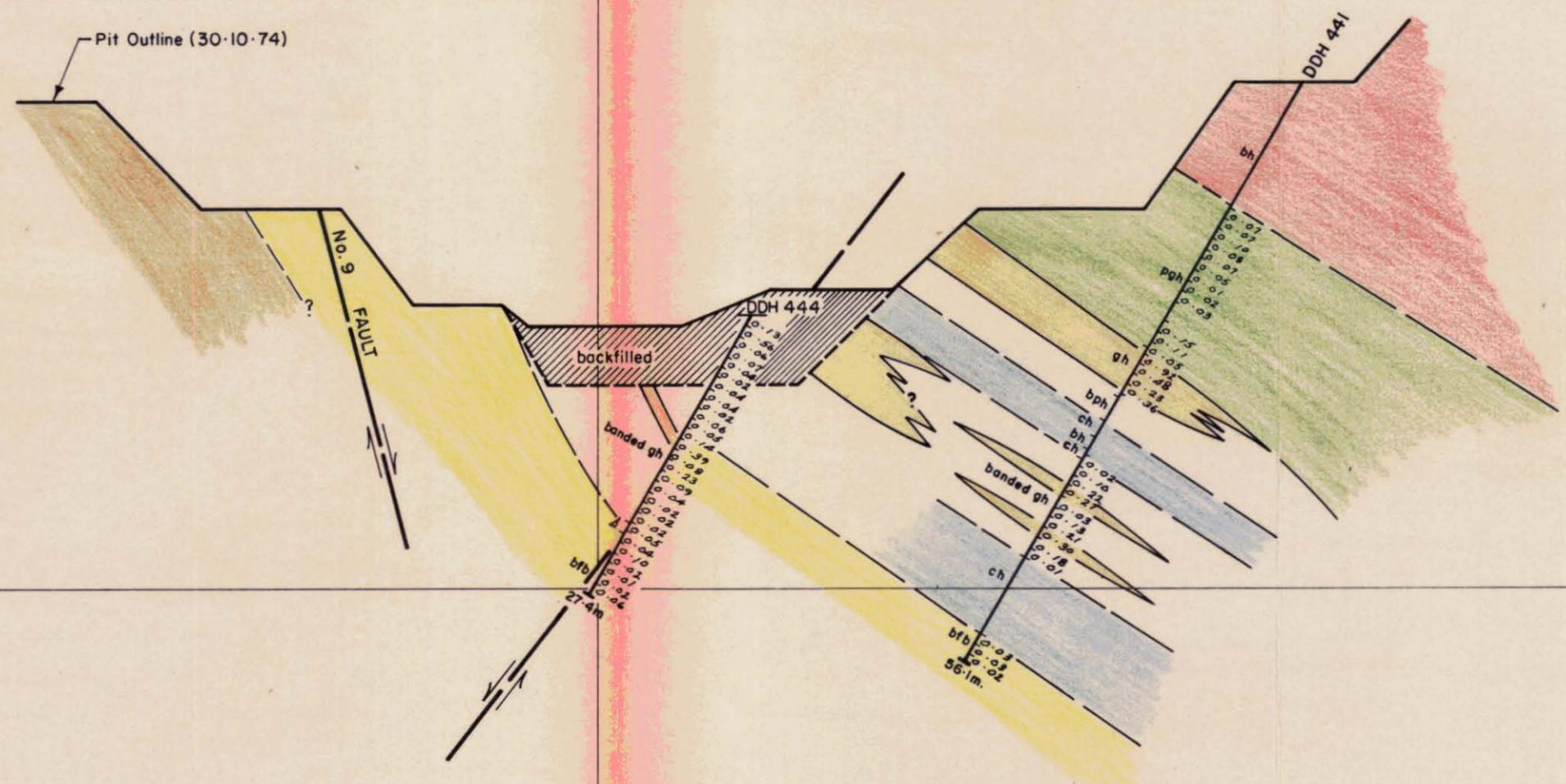
GEOPEKO LIMITED  
KING ISLAND  
Scale: 1:500  
NO KGI-14

No. 1 Orebody  
GEOLOGICAL CROSS SECTION  
12

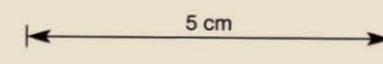
00mRL 00mRL

-50mRL -50mRL

564200N

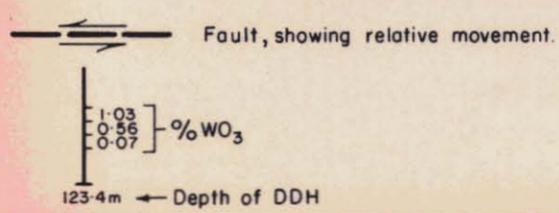


ISG REFER REPORT 70-0676



LEGEND:

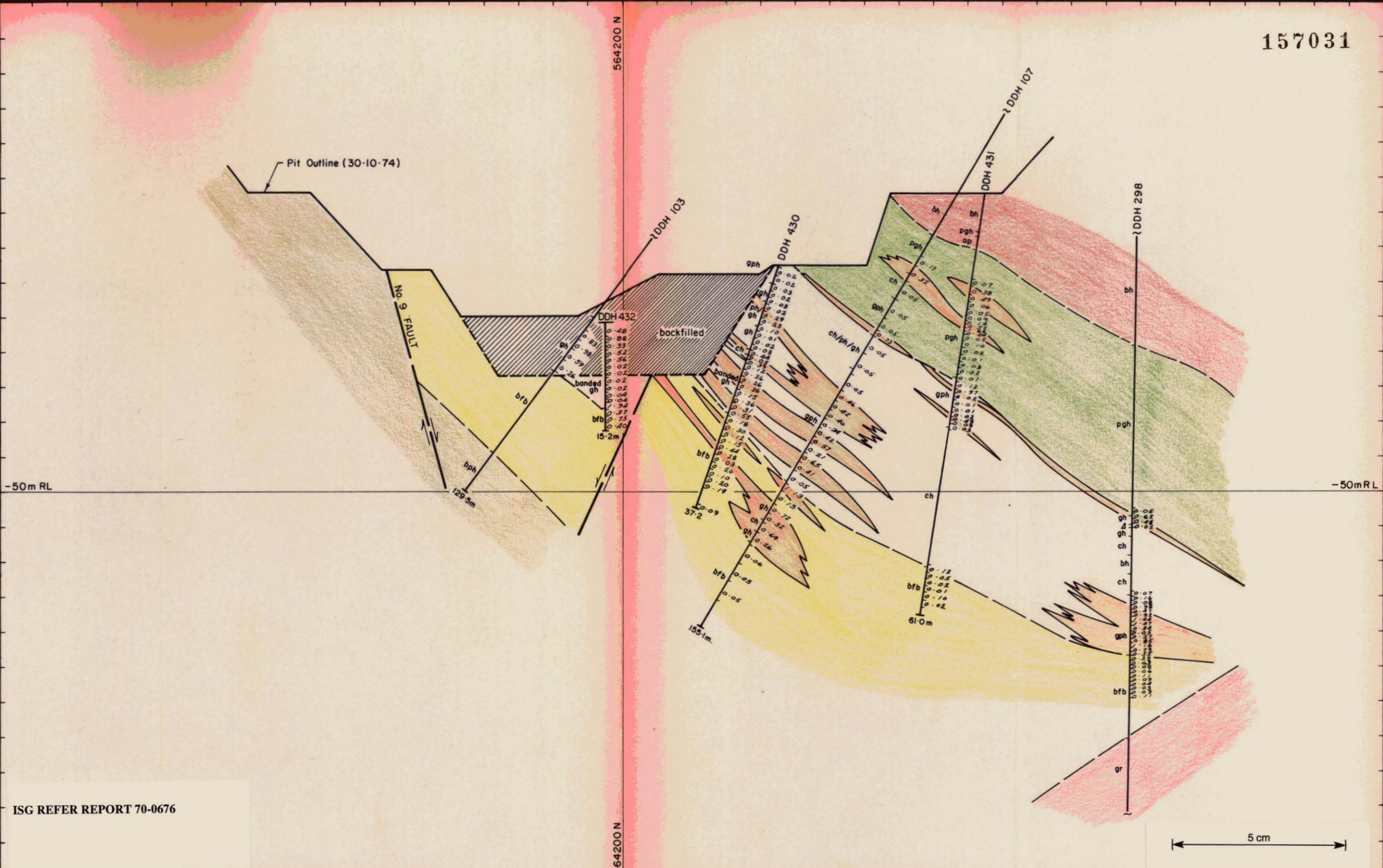
<span style="border: 1px solid black; padding: 2px;">uv</span> Upper metavolcanics	<span style="border: 1px solid black; padding: 2px;">ch</span> Marble	<span style="border: 1px solid black; padding: 2px;">q</span> Quartzite
<span style="border: 1px solid black; padding: 2px;">bh</span> Biotite hornfels	<span style="border: 1px solid black; padding: 2px;">bfb</span> Banded footwall beds	<span style="border: 1px solid black; padding: 2px;">gr</span> Granite
<span style="border: 1px solid black; padding: 2px;">pgh</span> Pyroxene garnet hornfels	<span style="border: 1px solid black; padding: 2px;">bph</span> Biotite pyroxene hornfels	<span style="border: 1px solid black; padding: 2px;">ap</span> Aplite
<span style="border: 1px solid black; padding: 2px;">gh</span> Garnet hornfels	<span style="border: 1px solid black; padding: 2px;">lv</span> Lower metavolcanics	



DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

GEOPEKO LIMITED  
 KING ISLAND  
 Scale: 1:500 No KGI-15

No. 1 Oreboddy  
**GEOLOGICAL CROSS SECTION**  
 12 1/2



ISG REFER REPORT 70-0676

LEGEND:

<span style="display: inline-block; width: 15px; height: 10px; background-color: #d3d3d3; border: 1px solid black;"></span> uv	Upper metavolcanics	<span style="display: inline-block; width: 15px; height: 10px; background-color: #90ee90; border: 1px solid black;"></span> ch	Marble	<span style="display: inline-block; width: 15px; height: 10px; background-color: #f0f0f0; border: 1px solid black;"></span> q	Quartzite
<span style="display: inline-block; width: 15px; height: 10px; background-color: #ff69b4; border: 1px solid black;"></span> bh	Biotite hornfels	<span style="display: inline-block; width: 15px; height: 10px; background-color: #ffff00; border: 1px solid black;"></span> bfb	Banded footwall beds	<span style="display: inline-block; width: 15px; height: 10px; background-color: #ff6347; border: 1px solid black;"></span> gr	Granite
<span style="display: inline-block; width: 15px; height: 10px; background-color: #90ee90; border: 1px solid black;"></span> pgh	Pyroxene garnet hornfels	<span style="display: inline-block; width: 15px; height: 10px; background-color: #d2b48c; border: 1px solid black;"></span> bph	Biotite pyroxene hornfels	<span style="display: inline-block; width: 15px; height: 10px; background-color: #fff2cc; border: 1px solid black;"></span> ap	Aplite
<span style="display: inline-block; width: 15px; height: 10px; background-color: #ff69b4; border: 1px solid black;"></span> gh	Garnet hornfels	<span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0e0; border: 1px solid black;"></span> lv	Lower metavolcanics		

Fault, showing relative movement.

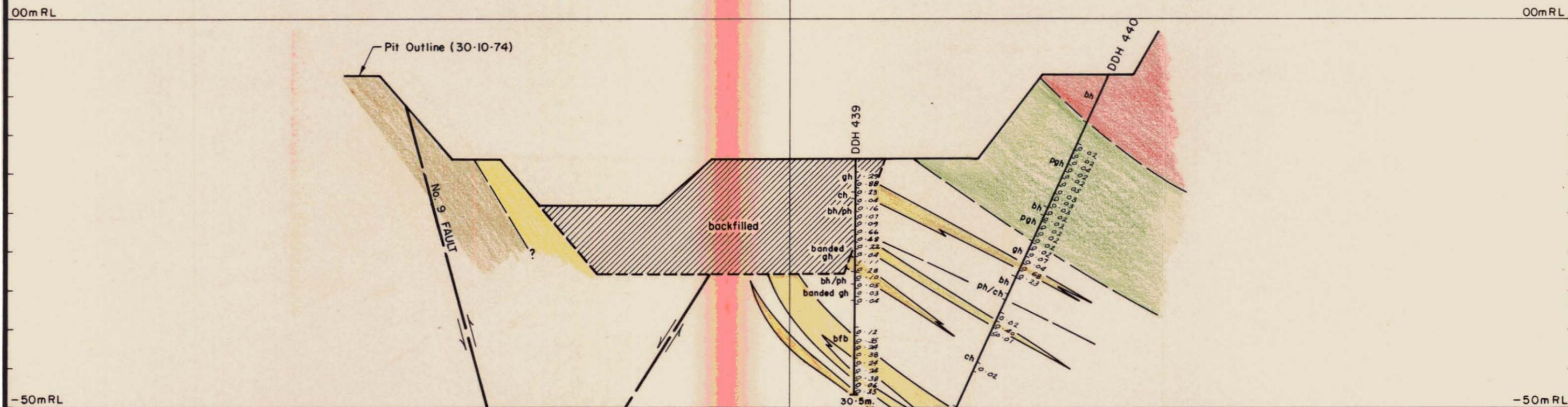
} %WO<sub>3</sub>  
123.4m ← Depth of DDH



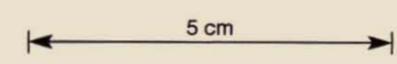
DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

GEOPEKO LIMITED  
 KING ISLAND  
 Scale: 1:500  
 No. KGI-16

No. 1 Orebody  
 GEOLOGICAL CROSS SECTION  
 13

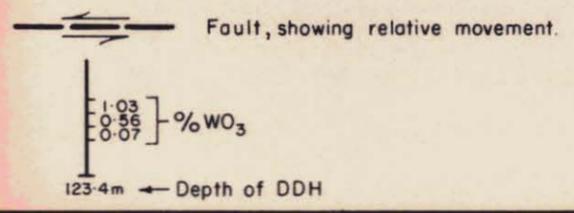


ISG REFER REPORT 70-0676



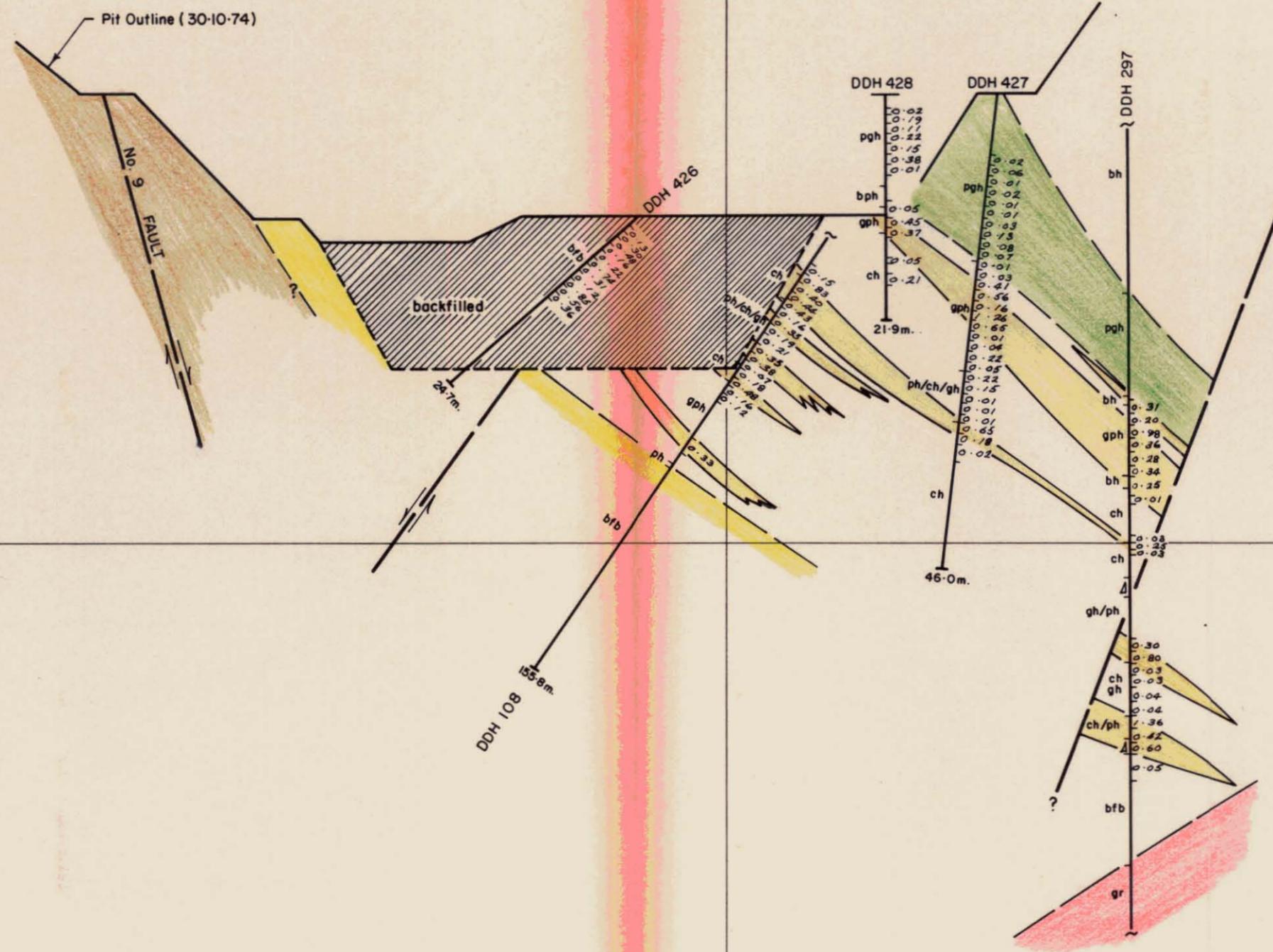
LEGEND:

uv	Upper metavolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
pgh	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metavolcanics		



DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

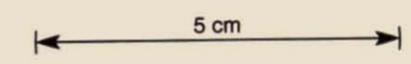
GEOPEKO LIMITED  
 KING ISLAND  
 Scale: 1:500  
 No. 1 Orebody  
 GEOLOGICAL CROSS SECTION  
 13 1/2  
 No. KGI-17



- 50m RL

- 50m RL

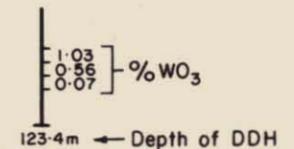
ISG REFER REPORT 70-0676



LEGEND:

uv	Upper metovolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
pgh	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metovolcanics		

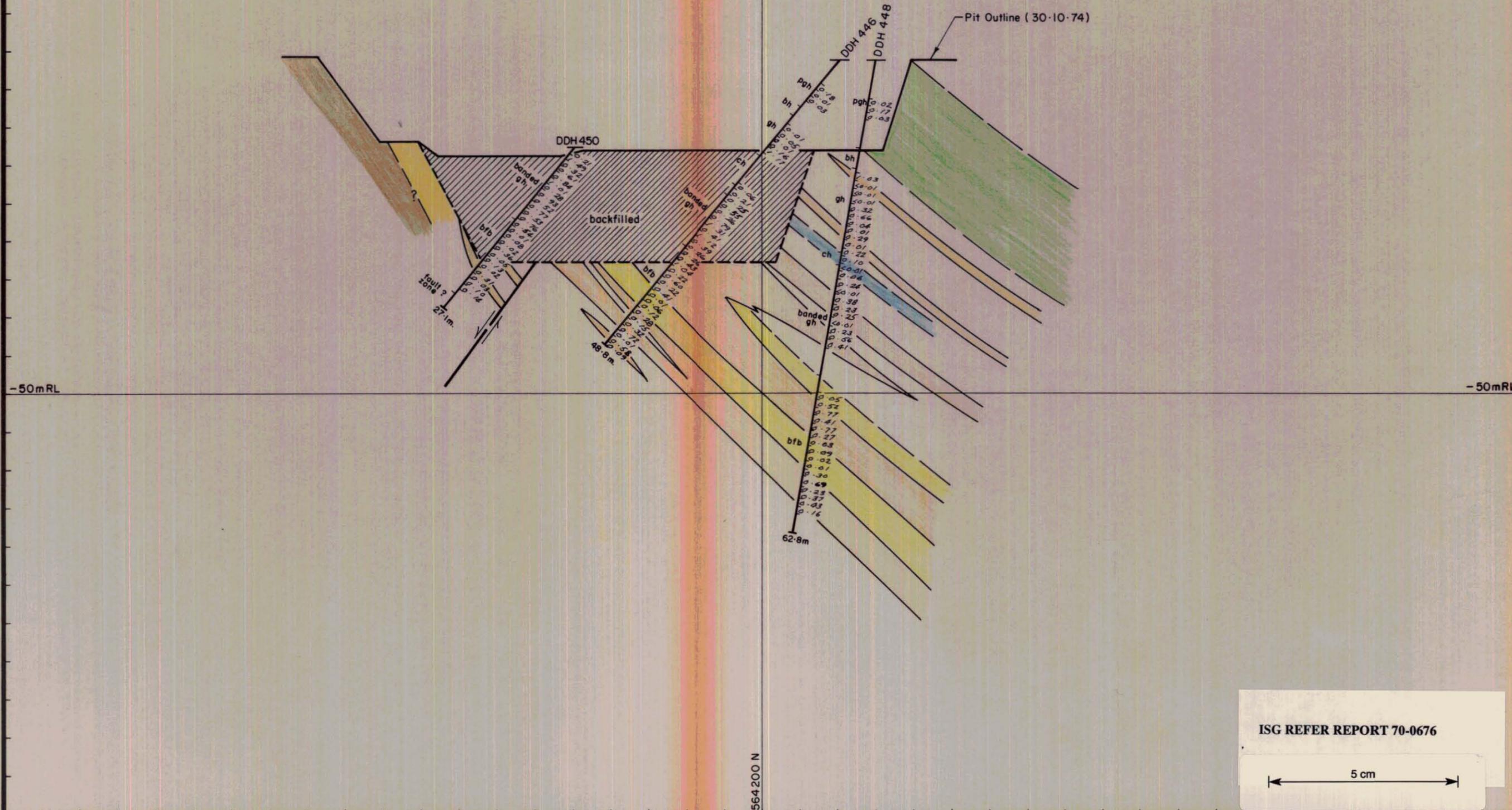
Fault, showing relative movement.



DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

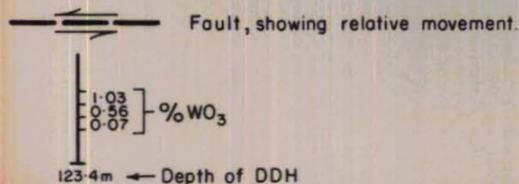
GEOPEKO LIMITED  
 KING ISLAND  
 Scale: 1:500  
 NO KGI-18

No. 1 Orebody  
 GEOLOGICAL CROSS SECTION  
 14



LEGEND:

- |  |   |   |
|--|---|---|
| <span style="border: 1px solid black; padding: 2px;">uv</span> Upper metovolcanics       | <span style="border: 1px solid black; padding: 2px;">ch</span> Marble                     | <span style="border: 1px solid black; padding: 2px;">q</span> Quartzite |
| <span style="border: 1px solid black; padding: 2px;">bh</span> Biotite hornfels          | <span style="border: 1px solid black; padding: 2px;">bfb</span> Banded footwall beds      | <span style="border: 1px solid black; padding: 2px;">gr</span> Granite  |
| <span style="border: 1px solid black; padding: 2px;">pgh</span> Pyroxene garnet hornfels | <span style="border: 1px solid black; padding: 2px;">bph</span> Biotite pyroxene hornfels | <span style="border: 1px solid black; padding: 2px;">ap</span> Aplite   |
| <span style="border: 1px solid black; padding: 2px;">gh</span> Garnet hornfels           | <span style="border: 1px solid black; padding: 2px;">lv</span> Lower metovolcanics        |   |



DATE: 30-10-74  
GEOLOG: M.J.D.  
DWN: R.F.  
CHKD: M.J.D.

ISG REFER REPORT 70-0676

5 cm

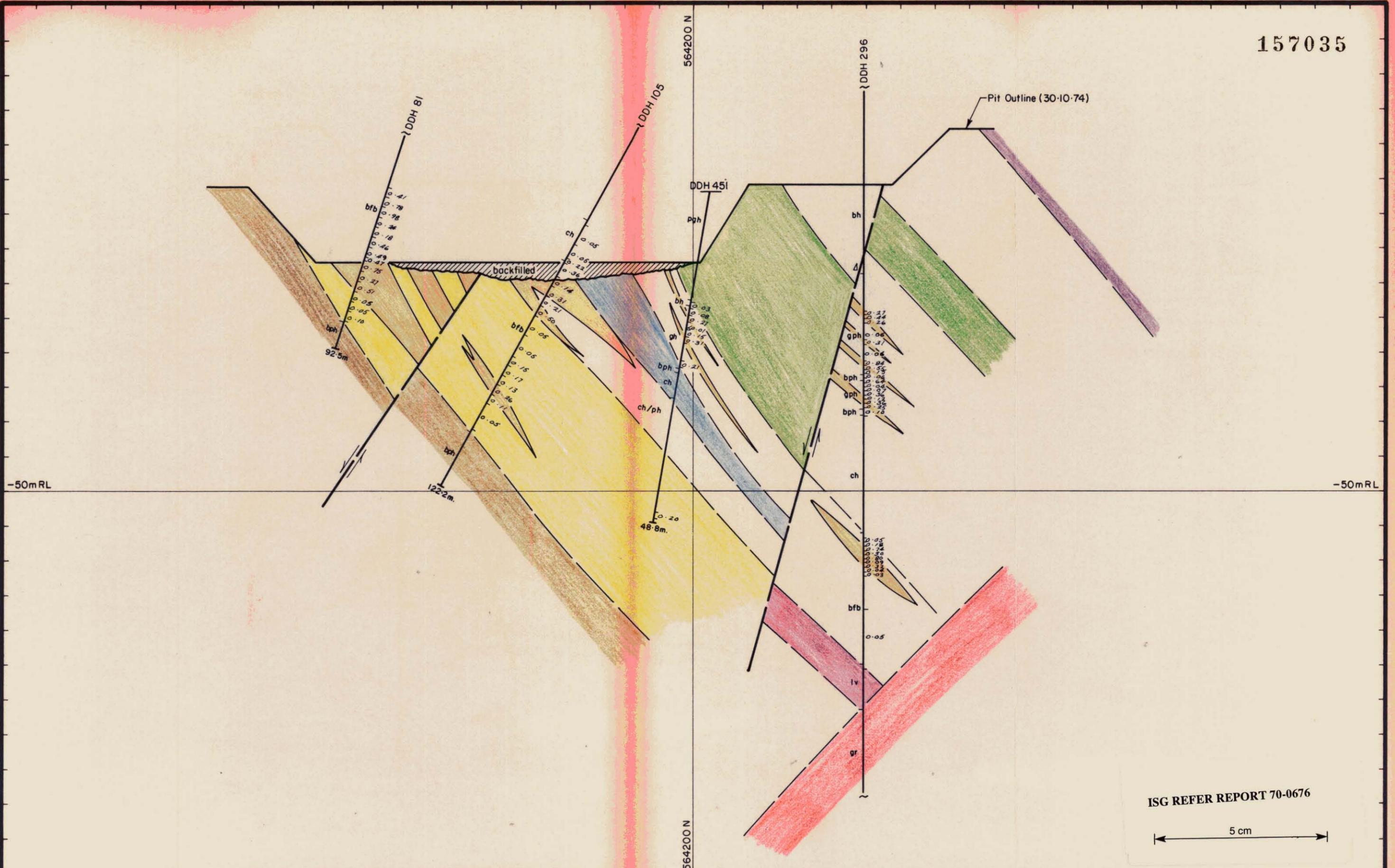
GEOPEKO LIMITED  
KING ISLAND

Scale: 1:500      No. KGI-19

No. 1 Oreboddy

**GEOLOGICAL CROSS SECTION**

14 1/2



ISG REFER REPORT 70-0676

5 cm

LEGEND:

- |                          |                           |           |
|--------------------------|---------------------------|-----------|
| Upper metavolcanics      | Marble                    | Quartzite |
| Biotite hornfels         | Banded footwall beds      | Granite   |
| Pyroxene garnet hornfels | Biotite pyroxene hornfels | Aplite    |
| Garnet hornfels          | Lower metavolcanics       |           |

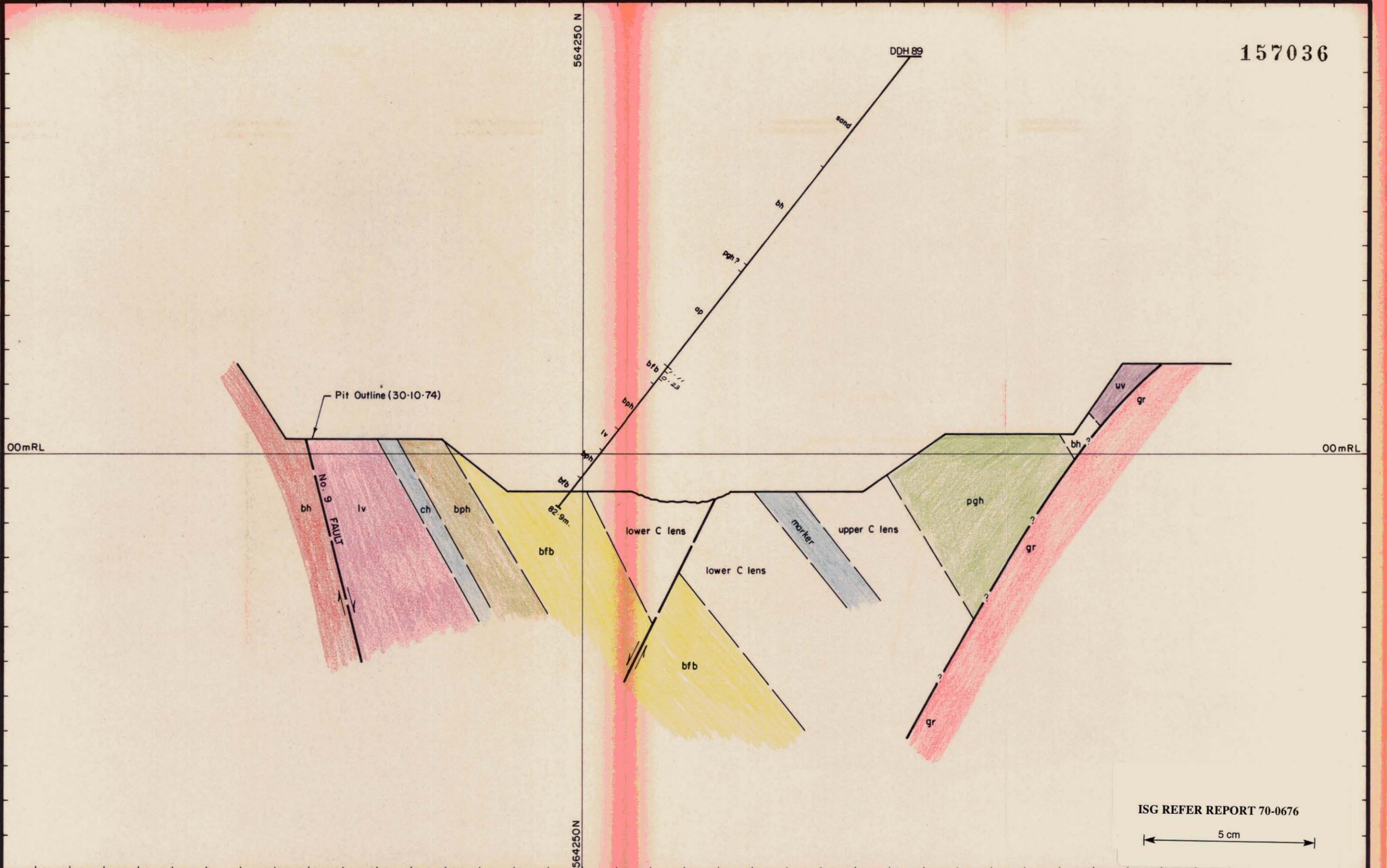
Fault, showing relative movement.

1.03  
0.56  
0.07 } %WO<sub>3</sub>  
123.4m ← Depth of DDH

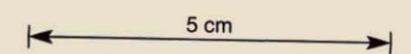


DATE: 30-10-74  
GEOL: M.J.D.  
DWN: R.F.  
CHKD: M.J.D.

GEOPEKO LIMITED  
KING ISLAND  
Scale: 1:500  
No. 1 Orebody  
GEOLOGICAL CROSS SECTION  
15  
No KGI-20

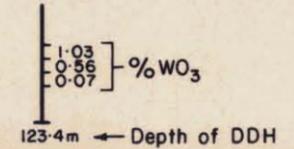
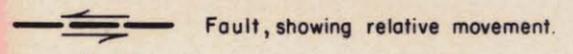


ISG REFER REPORT 70-0676



LEGEND:

Upper metavolcanics	Marble	Quartzite
Biotite hornfels	Banded footwall beds	Granite
Pyroxene garnet hornfels	Biotite pyroxene hornfels	Aplite
Garnet hornfels	Lower metavolcanics	



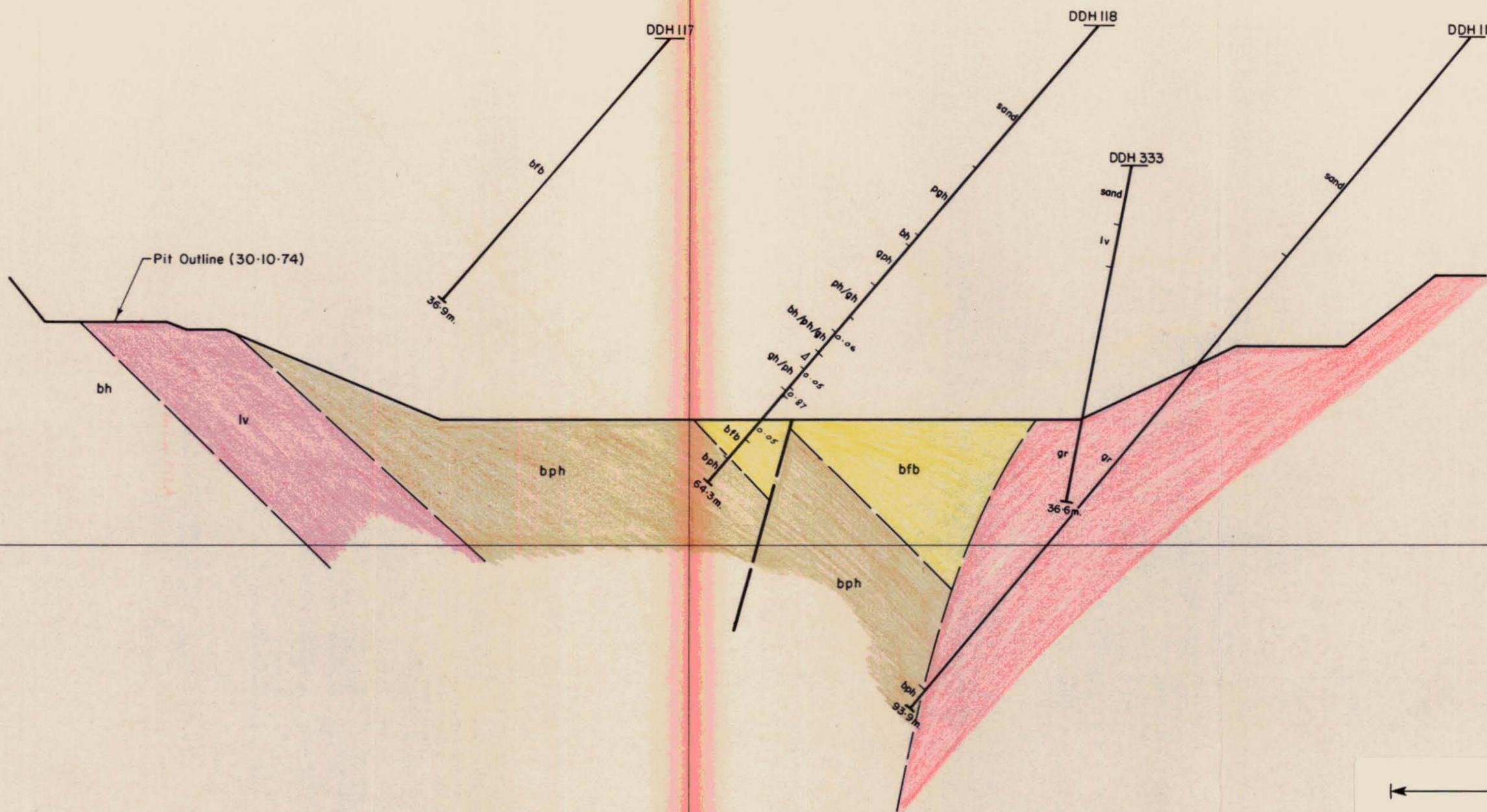
GEOPEKO LIMITED  
KING ISLAND  
Scale: 1:500  
No. KGI-114

DATE: 30-10-74  
GEOL: M.J.D.  
DWN: R.F.  
CHKD: M.J.D.

No. 1 Orebody  
**GEOLOGICAL CROSS SECTION**  
16

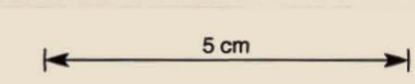
564250 N

564250 N



00m RL

00m RL

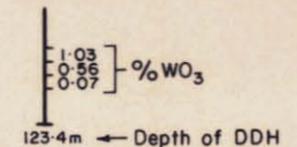


ISG REFER REPORT 70-0676

LEGEND:

<span style="border: 1px solid black; padding: 2px;">uv</span> Upper metavolcanics	<span style="border: 1px solid black; padding: 2px;">ch</span> Marble	<span style="border: 1px solid black; padding: 2px;">q</span> Quartzite
<span style="border: 1px solid black; padding: 2px;">bh</span> Biotite hornfels	<span style="border: 1px solid black; padding: 2px;">bfb</span> Banded footwall beds	<span style="border: 1px solid black; padding: 2px;">gr</span> Granite
<span style="border: 1px solid black; padding: 2px;">pgh</span> Pyroxene garnet hornfels	<span style="border: 1px solid black; padding: 2px;">bph</span> Biotite pyroxene hornfels	<span style="border: 1px solid black; padding: 2px;">ap</span> Aplite
<span style="border: 1px solid black; padding: 2px;">gh</span> Garnet hornfels	<span style="border: 1px solid black; padding: 2px;">iv</span> Lower metavolcanics	

Fault, showing relative movement.

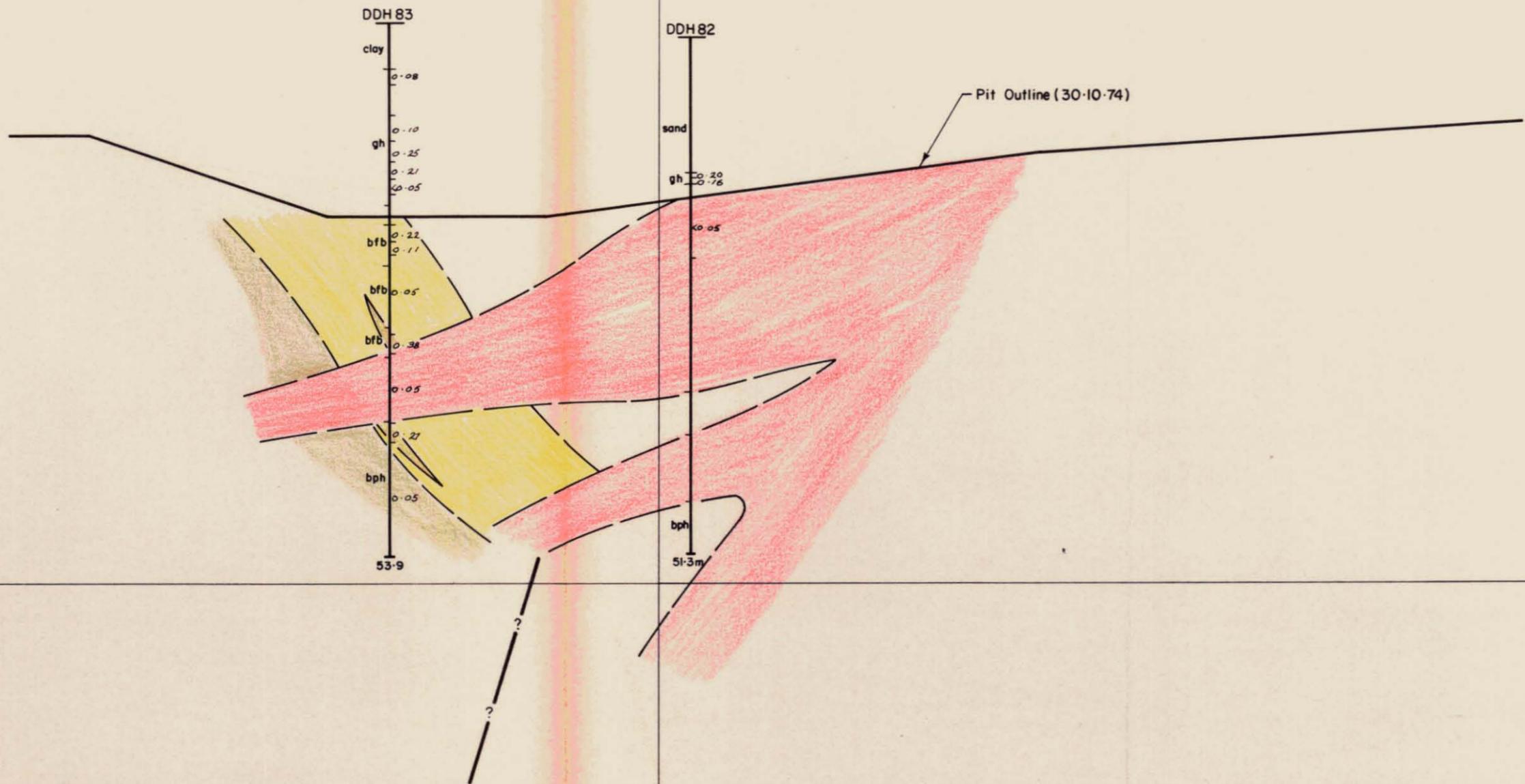


GEOPEKO LIMITED  
KING ISLAND  
Scale: 1:500  
No KGI-115

DATE: 30-10-74  
GEOLOGIST: M.J.D.  
DRAWN: R.F.  
CHECKED: M.J.D.

No. 1 Orebody  
GEOLOGICAL CROSS SECTION  
17

564250N



00m RL

00m RL

564250N

ISG REFER REPORT 70-0676  
 5 cm

LEGEND:

- |  |  |   |
|--|--|---|
| <span style="border: 1px solid black; padding: 2px;">uv</span> Upper metavolcanics       | <span style="border: 1px solid black; padding: 2px;">ch</span> Marble  | <span style="border: 1px solid black; padding: 2px;">q</span> Quartzite |
| <span style="border: 1px solid black; padding: 2px;">bh</span> Biotite hornfels          | <span style="background-color: yellow; border: 1px solid black; padding: 2px;">bfb</span> Banded footwall beds     | <span style="border: 1px solid black; padding: 2px;">gr</span> Granite  |
| <span style="border: 1px solid black; padding: 2px;">pgh</span> Pyroxene garnet hornfels | <span style="background-color: brown; border: 1px solid black; padding: 2px;">bph</span> Biotite pyroxene hornfels | <span style="border: 1px solid black; padding: 2px;">ap</span> Aplite   |
| <span style="border: 1px solid black; padding: 2px;">gh</span> Garnet hornfels           | <span style="border: 1px solid black; padding: 2px;">lv</span> Lower metavolcanics                                 |   |

Fault, showing relative movement.

} %WO<sub>3</sub>  
 1.03  
 0.56  
 0.07  
 123.4m ← Depth of DDH

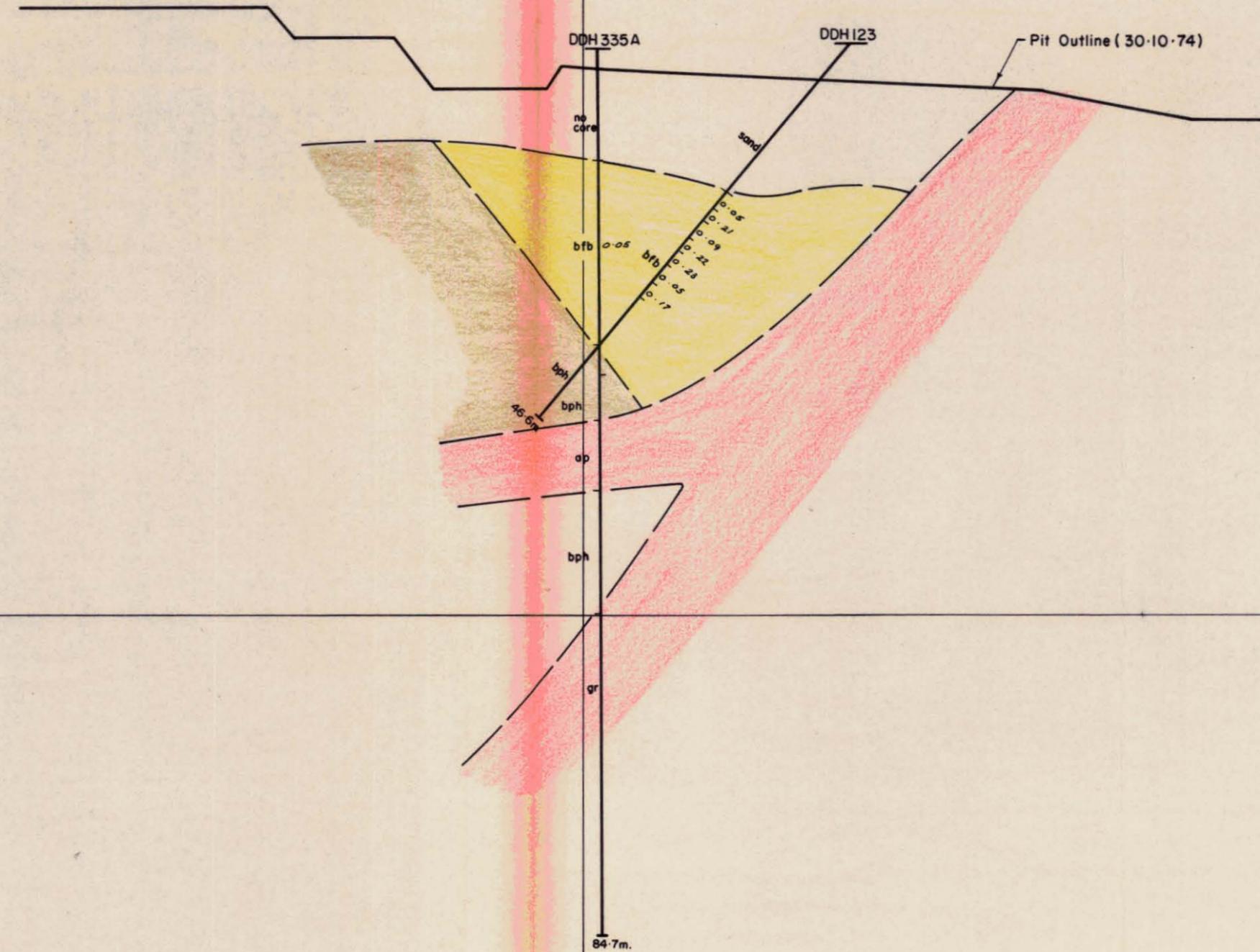


GEOPEKO LIMITED  
 KING ISLAND  
 Scale: 1:500  
 No KGI-117

DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

No. 1 Orebody  
**GEOLOGICAL CROSS SECTION**  
 18

564250 N  
564250 N



00mRL

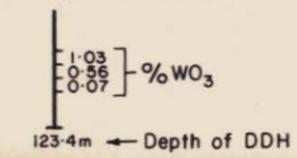
00mRL

ISG REFER REPORT 70-0676

LEGEND:

uv	Upper metavolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
pgh	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metavolcanics		

Fault, showing relative movement.



DATE: 30-10-74  
GEOLOG: M.J.D.  
DWN: R.F.  
CHKD: M.J.D.

GEOPEKO LIMITED  
KING ISLAND

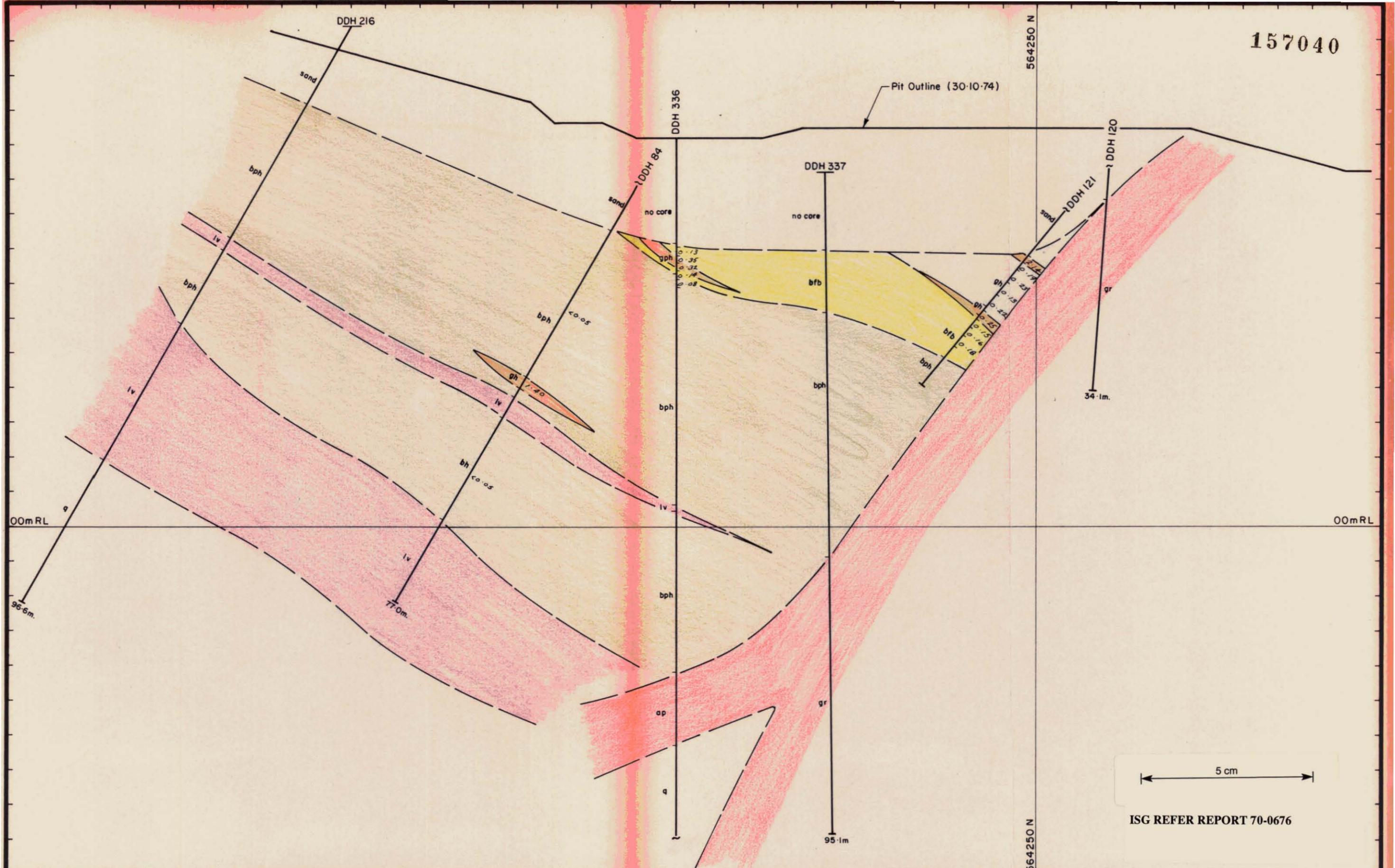
Scale: 1:500

No. 1 Orebody

**GEOLOGICAL CROSS SECTION**

19

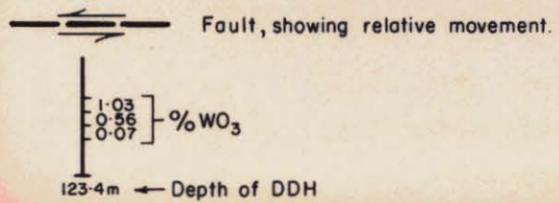
Nº KGI-118



5 cm  
ISG REFER REPORT 70-0676

LEGEND:

uv	Upper metavolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
pgh	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metavolcanics		

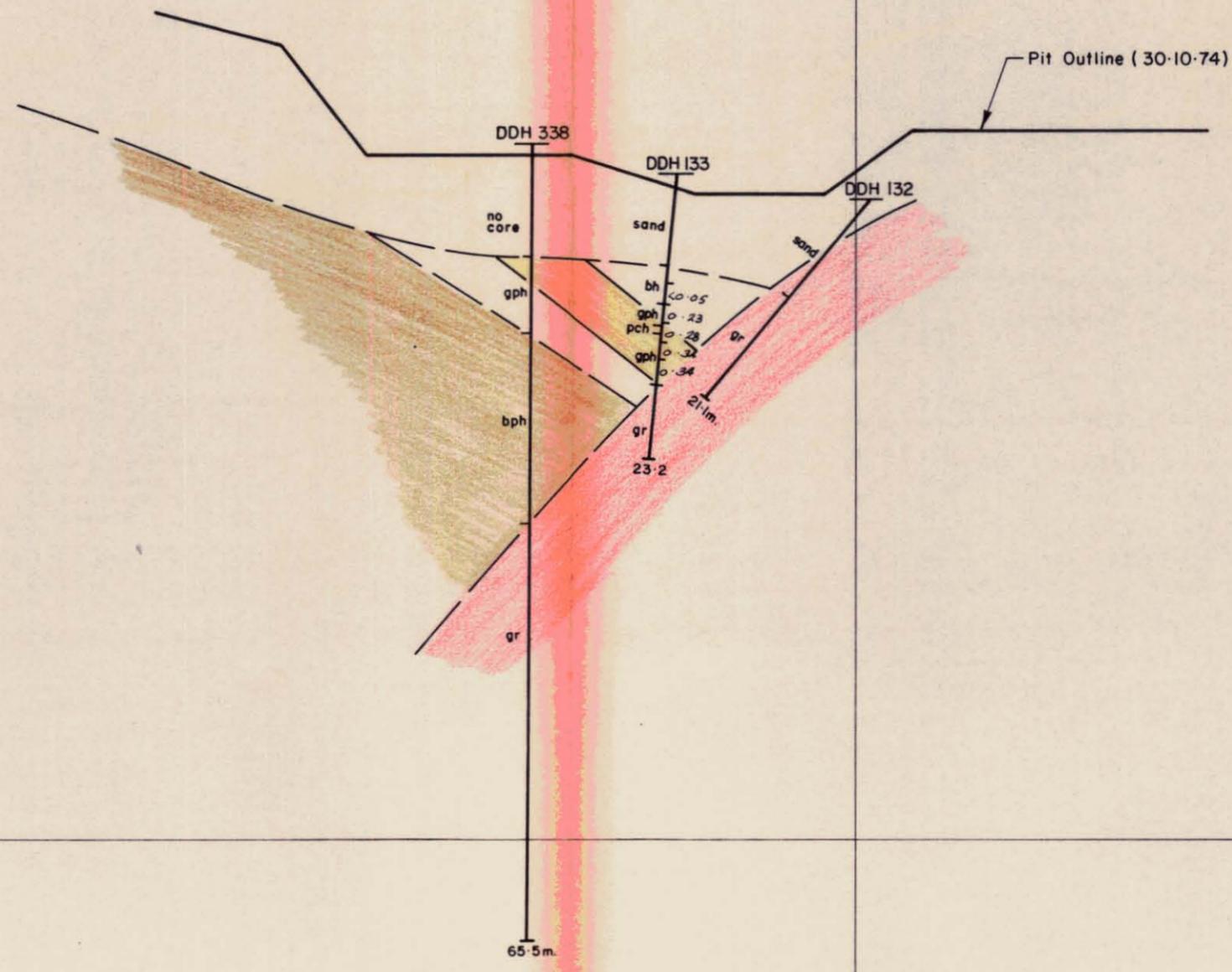


DATE: 30-10-74  
GEOLOG: M.J.D.  
DWN: R.F.  
CHKD: M.J.D.

GEOPEKO LIMITED  
KING ISLAND  
Scale: 1:500  
No. 1 Orebody  
GEOLOGICAL CROSS SECTION  
20

564250 N

564250 N



Pit Outline (30-10-74)

DDH 338

DDH 133

DDH 132

no core

sand

sand

gph

bh

gph

pch

gph

gph

bph

gr

gr

gr

65.5m

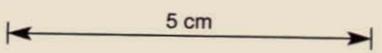
23.2

21.1m

00m RL

00m RL

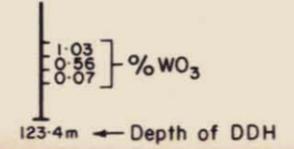
ISG REFER REPORT 70-0676



LEGEND:

uv	Upper metavolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
gph	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metavolcanics		

Fault, showing relative movement.

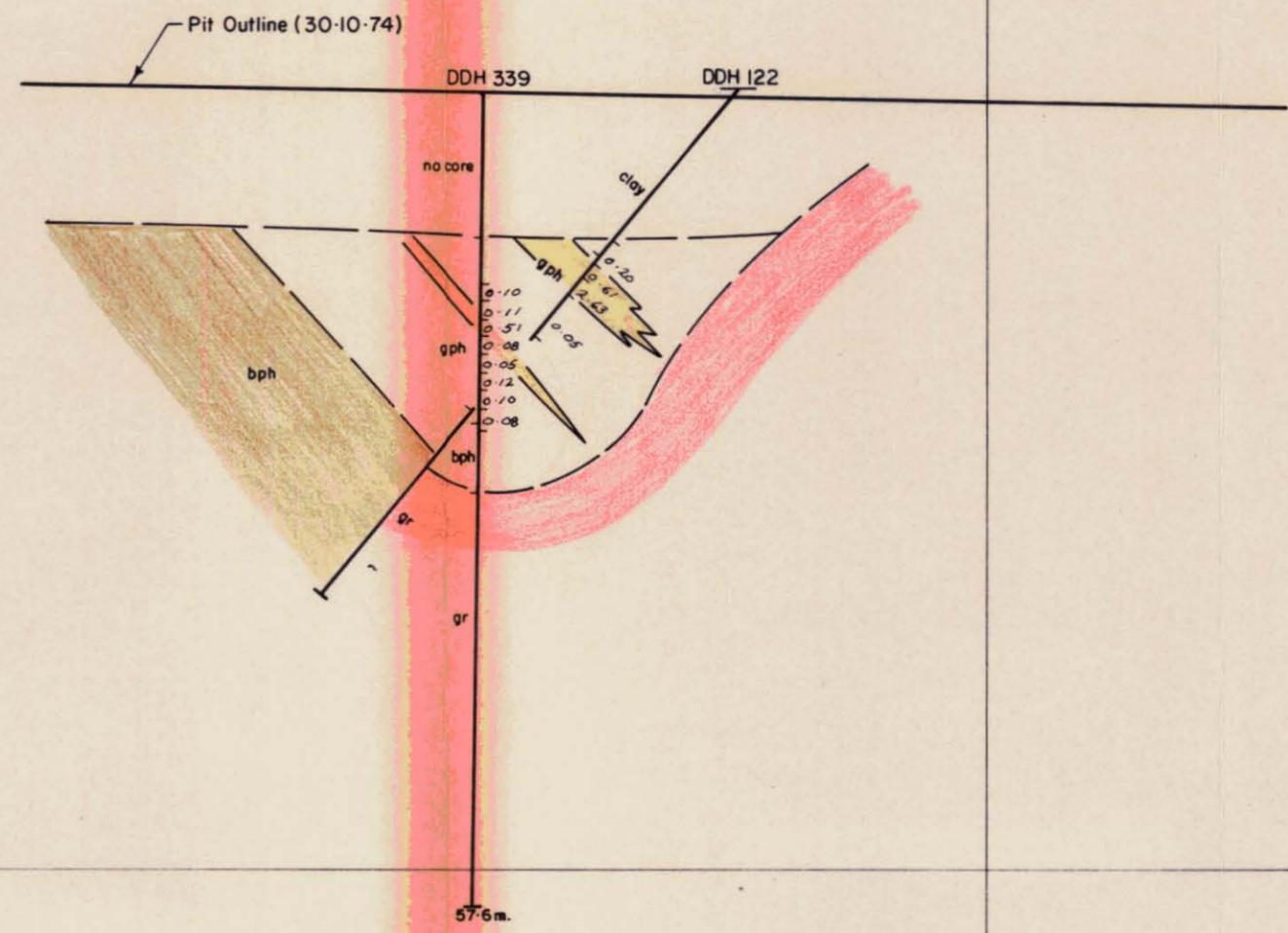


DATE: 30-10-74  
 GEOL: M.J.D.  
 DWN: R.F.  
 CHKD: M.J.D.

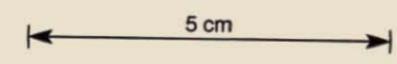
GEOPEKO LIMITED  
 KING ISLAND  
 Scale: 1:500  
 No. KGI-120

No. 1 Orebody  
 GEOLOGICAL CROSS SECTION  
 21

564250 N



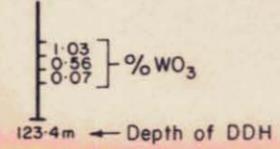
ISG REFER REPORT 70-0676



LEGEND:

uv	Upper metavolcanics	ch	Marble	q	Quartzite
bh	Biotite hornfels	bfb	Banded footwall beds	gr	Granite
gph	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	ap	Aplite
gh	Garnet hornfels	lv	Lower metavolcanics		

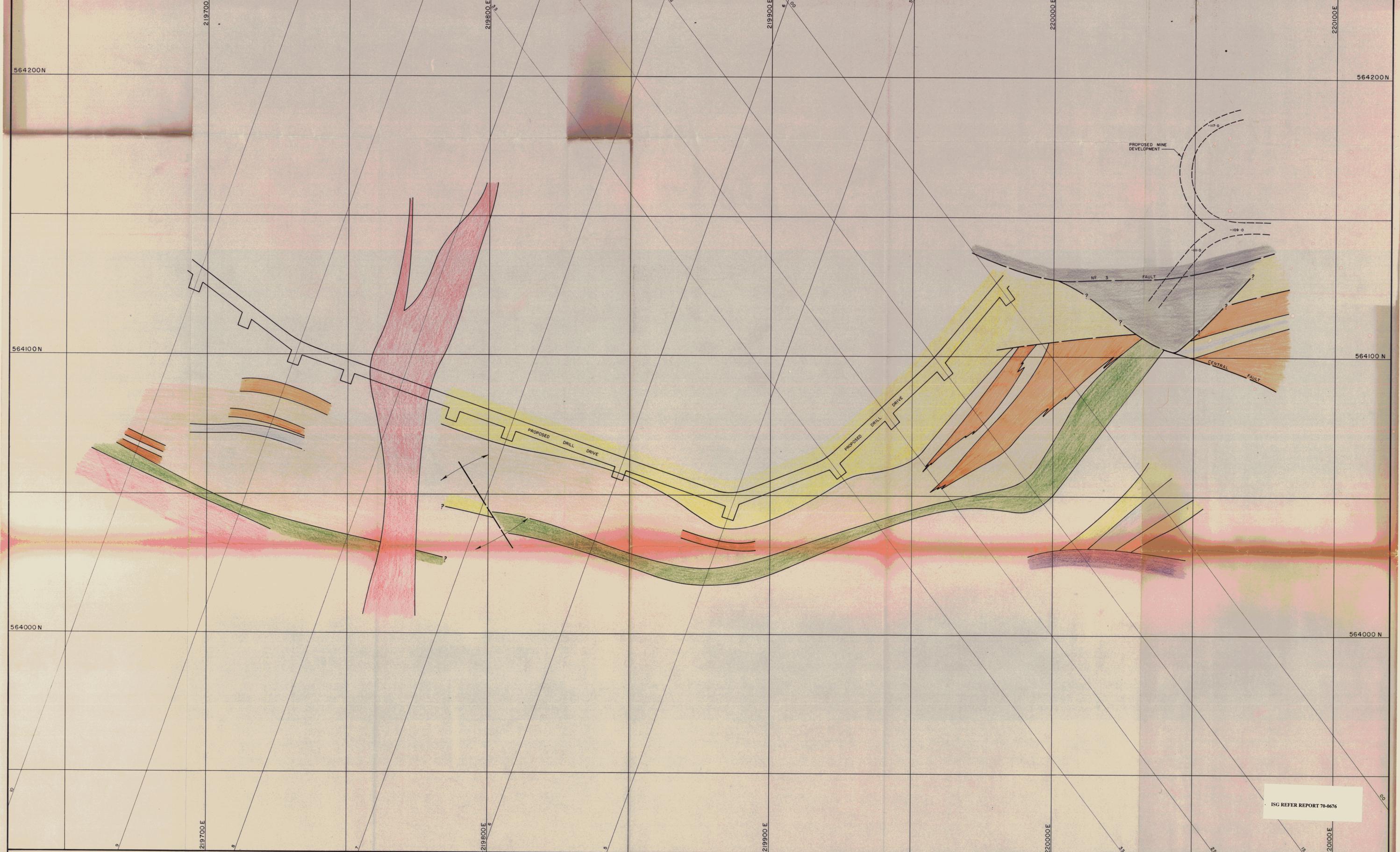
Fault, showing relative movement.



DATE: 30-10-74  
GEOLOG: M.J.D.  
DWN: R.F.  
CHKD: M.J.D.

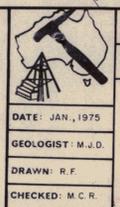
GEOPEKO LIMITED  
KING ISLAND  
Scale: 1:500  
No KGI-121

No. 1 Orebody  
GEOLOGICAL CROSS SECTION



ISG REFER REPORT 70-0676

- Legend:**
- Upper metavolcanics
  - Banded hornfels
  - Marble
  - Pyroxene garnet hornfels
  - Garnet hornfels (ore grade)
  - Banded footwall beds
  - Aplite / Granite
  - Quartzite
  - Fault
  - Degree of uncertainty in Fault position



**GEOPEKO LIMITED** 157043  
KING ISLAND GROUP

No. KGI-124

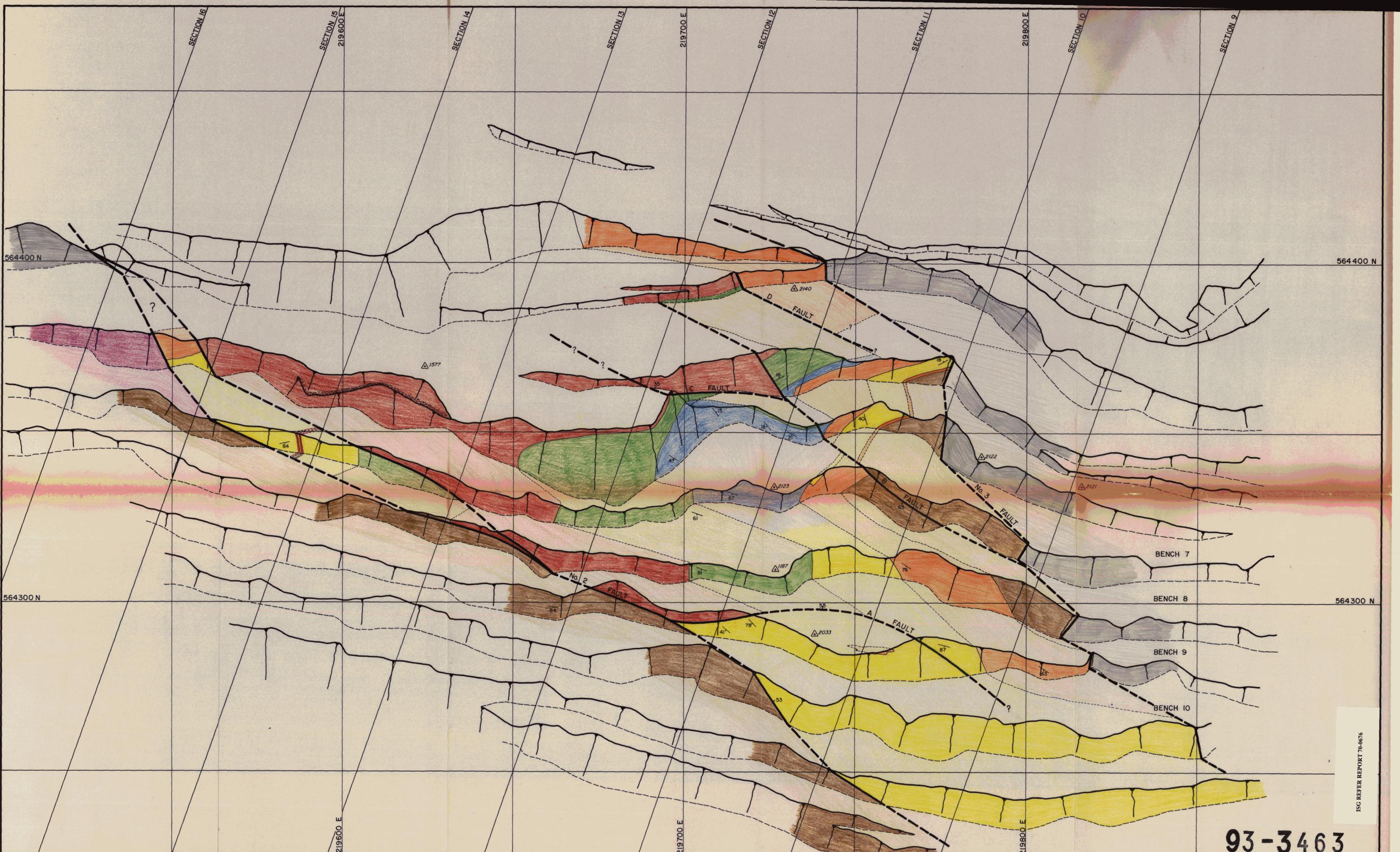
SCALE: 1:500

5 cm

**Nº 1 OREBODY**  
**GEOLOGICAL PLAN**  
-100 mR

93-3463

DATE: JAN., 1975  
GEOLOGIST: M.J.D.  
DRAWN: R.F.  
CHECKED: M.C.R.



- Legend:**
- bh Hangingwall biotite hornfels
  - pgh Pyroxene garnet hornfels
  - gh Garnet hornfels
  - bfb Banded footwall beds (mineralized)
  - ch Marble

- bfb Banded footwall beds (unmineralized)
- bph Biotite pyroxene hornfels
- lv Lower metavolcanics
- q Quartzite

- Lithological boundary (accurate)
- Lithological boundary (approx.)
- Fault, accurate
- Fault, approx.
- Established Fault, position accurate with dip
- 40/30 Fault with bearing and plunge of grooves, slickensides etc.
- 67 Strike and dip of bedding
- $\triangle 2268$  Survey station
- +22.3 Spot elevation



DATE: MAR, 1974  
 GEOLOGIST: M.J.D.  
 DRAWN: R.F.  
 CHECKED: M.C.R.

**93-3463**

GEOPEKO LIMITED 157044  
 KING ISLAND GROUP

No. KGI-104

SCALE: 1:500

5 cm

**GEOLOGICAL MAP**  
**WEDGE BLOCK**  
**No. 1 OREBODY**

ISC REFER REPORT 70-0676



**NOTE:**  
There are no geological logs available for any of the above DDH's.

ISG REFER REPORT 70-0676

**LEGEND:**

bh	Hangingwall biotite hornfels	bfb	Banded footwall beds (unmineralized)	60	Strike and dip
pgh	Pyroxene garnet hornfels	bph	Biotite pyroxene hornfels	Fault, showing relative movement	
gh/ch	Garnet hornfels/calcite hornfels	lv	Lower metavolcanics	Degree of uncertainty in Fault position	
bfb	Banded footwall beds (mineralized)	q	Quartzite		

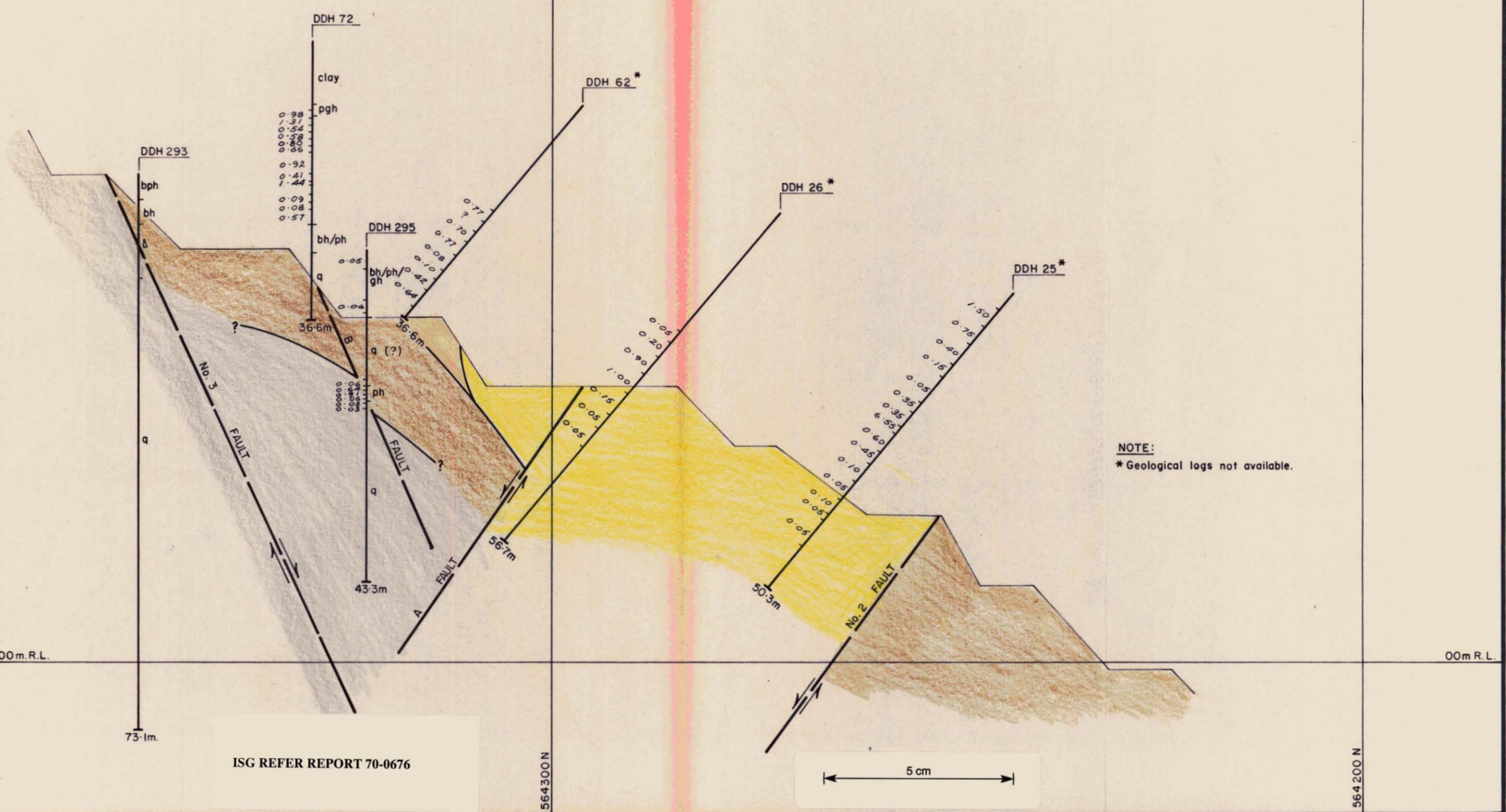
DATE: MAR., 1974  
GEOLOGIST: M.J.D.  
DRAWN: R.F.  
CHECKED: M.C.R.

**GEOPEKO LIMITED**  
KING ISLAND GROUP

SCALE: 1:500

No. KGI-105

**GEOLOGICAL CROSS-SECTION 9**  
**WEDGE BLOCK**  
**No. 1 OREBODY**



ISG REFER REPORT 70-0676

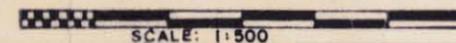
LEGEND:

- |       |                                    |     |                                      |   |                |
|-------|------------------------------------|-----|--------------------------------------|---|----------------|
| bh    | Hangingwall biotite hornfels       | bfb | Banded footwall beds (unmineralized) | 60                                      | Strike and dip |
| pgh   | Pyroxene garnet hornfels           | bph | Biotite pyroxene hornfels            | Fault, showing relative movement        |                |
| gh/ch | Garnet hornfels/calcite hornfels   | lv  | Lower metavolcanics                  | Degree of uncertainty in Fault position |                |
| bfb   | Banded footwall beds (mineralized) | q   | Quartzite                            | Breccia                                 |                |



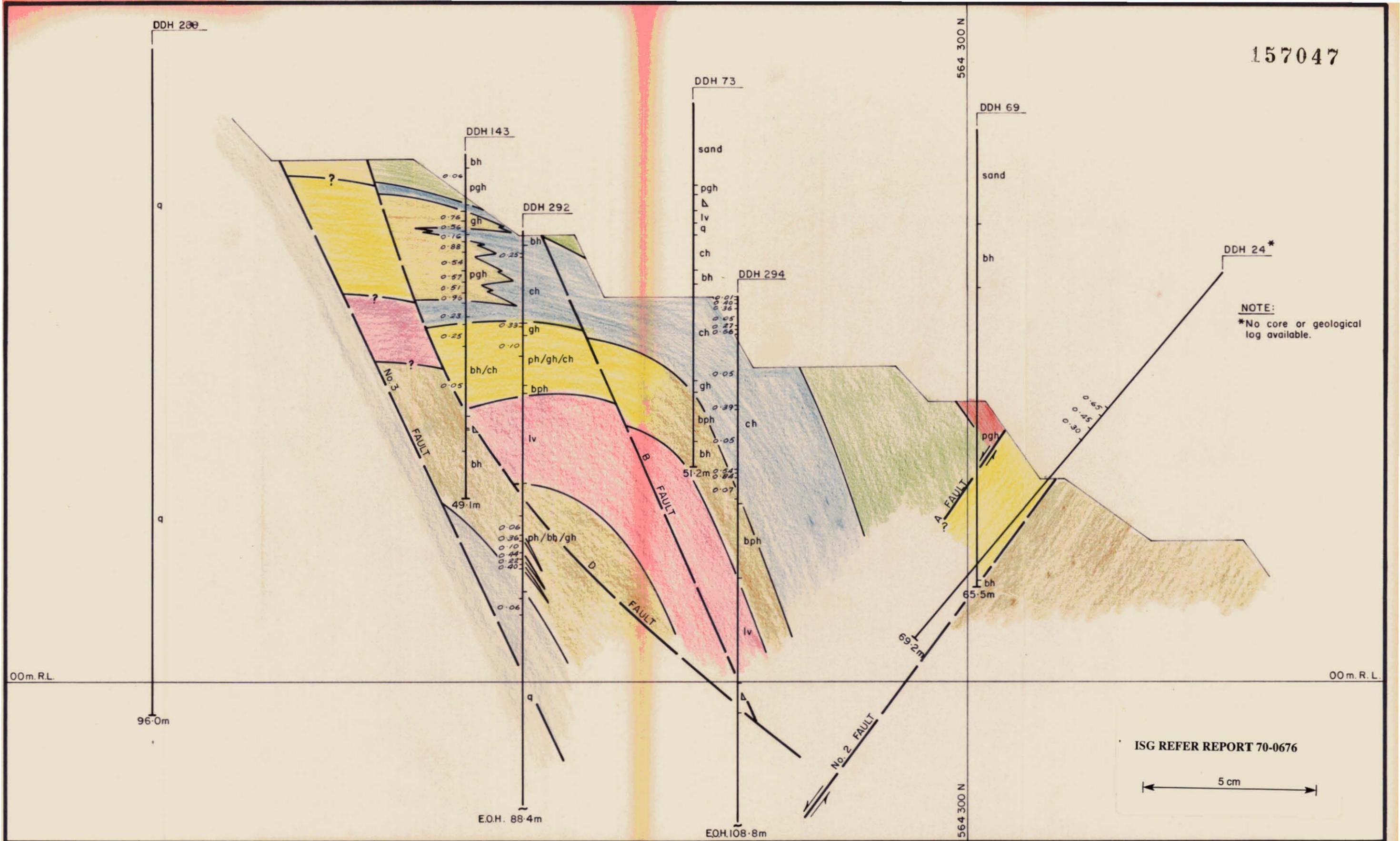
DATE: MAR., 1974  
 GEOLOGIST: M.J.D.  
 DRAWN: R.F.  
 CHECKED: M.C.R.

GEOPEKO LIMITED  
 KING ISLAND GROUP



No. KGI-106

GEOLOGICAL CROSS-SECTION IO  
 WEDGE BLOCK  
 No. 1 OREBODY



LEGEND:

- |       |                                    |     |                                      |   |                |
|-------|------------------------------------|-----|--------------------------------------|---|----------------|
| bh    | Hangingwall biotite hornfels       | bfb | Banded footwall beds (unmineralized) | 60                                      | Strike and dip |
| pgh   | Pyroxene garnet hornfels           | bph | Biotite pyroxene hornfels            | Fault, showing relative movement        |                |
| gh/ch | Garnet hornfels / calcite hornfels | lv  | Lower metavolcanics                  | Degree of uncertainty in Fault position |                |
| bfb   | Banded footwall beds (mineralized) | q   | Quartzite                            | Breccia                                 |                |

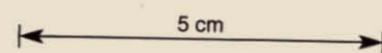
DATE: MAR., 1974  
 GEOLOGIST: M.J.D.  
 DRAWN: R.F.  
 CHECKED: M.C.R.

GEOPEKO LIMITED  
 KING ISLAND GROUP  
 No. KGI-107

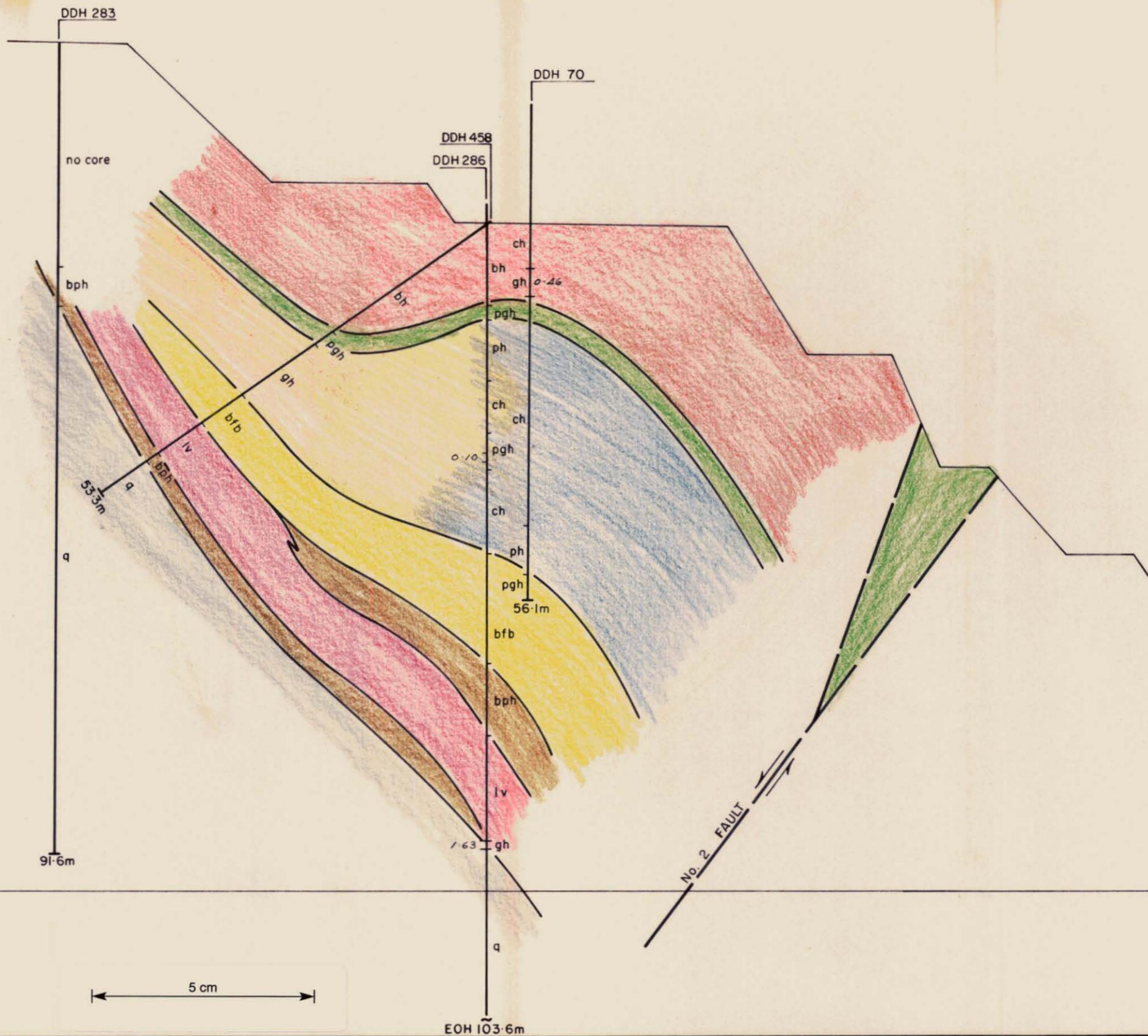
GEOLOGICAL CROSS-SECTION II  
 WEDGE BLOCK  
 No. 1 OREBODY

ISG REFER REPORT 70-0676

SCALE: 1:500







ISG REFER REPORT 70-0676

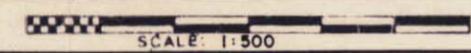
- LEGEND:**
- bh Hangingwall biotite hornfels
  - pgh Pyroxene garnet hornfels
  - gh/ch Garnet hornfels/calcite hornfels
  - bfb Banded footwall beds (mineralized)
  - bph Biotite pyroxene hornfels
  - lv Lower metavolcanics
  - q Quartzite

- 60 Strike and dip
- Fault
- Degree of uncertainty in Fault position



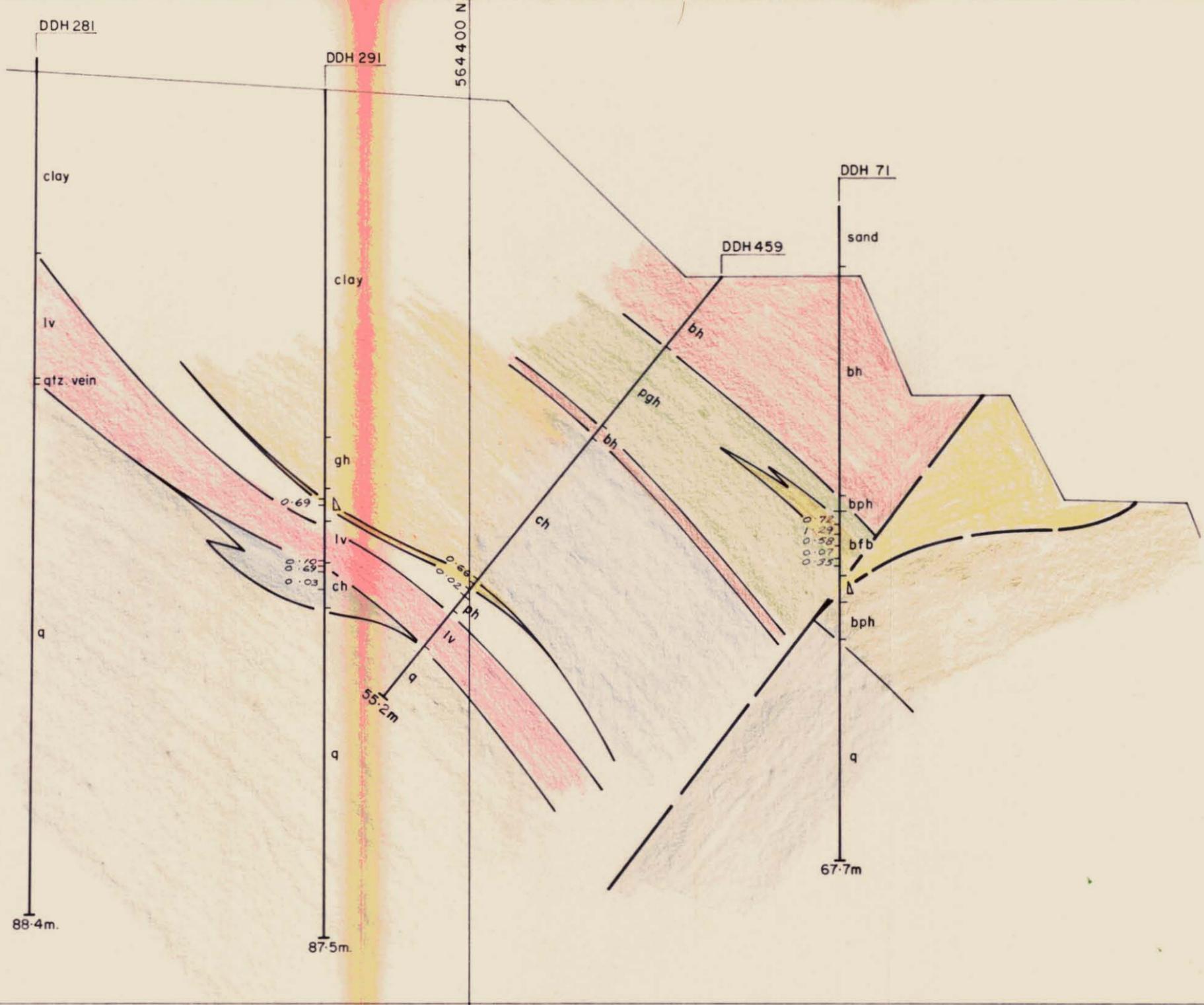
DATE: MAR., 1974  
 GEOLOGIST: M.J.D.  
 DRAWN: R.F.  
 CHECKED: M.C.R.

**GEOPEKO LIMITED**  
 KING ISLAND GROUP



No. KGI-109

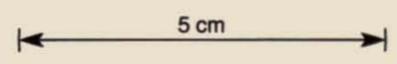
**GEOLOGICAL CROSS-SECTION 13**  
**WEDGE BLOCK**  
 No. 1 OREBODY



00m R.L.

00m R.L.

ISG REFER REPORT 70-0676



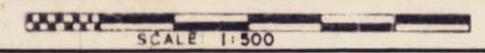
LEGEND:

- |  |  |   |
|--|--|---|
| bh Hangingwall biotite hornfels        | bfb Banded footwall beds (unmineralized) | 60 Strike and dip                       |
| pgh Pyroxene garnet hornfels           | bph Biotite pyroxene hornfels            | Fault                                   |
| gh/ch Garnet hornfels/calcite hornfels | lv Lower metavolcanics                   | Degree of uncertainty in Fault position |
| bfb Banded footwall beds (mineralized) | q Quartzite                              | Breccia                                 |



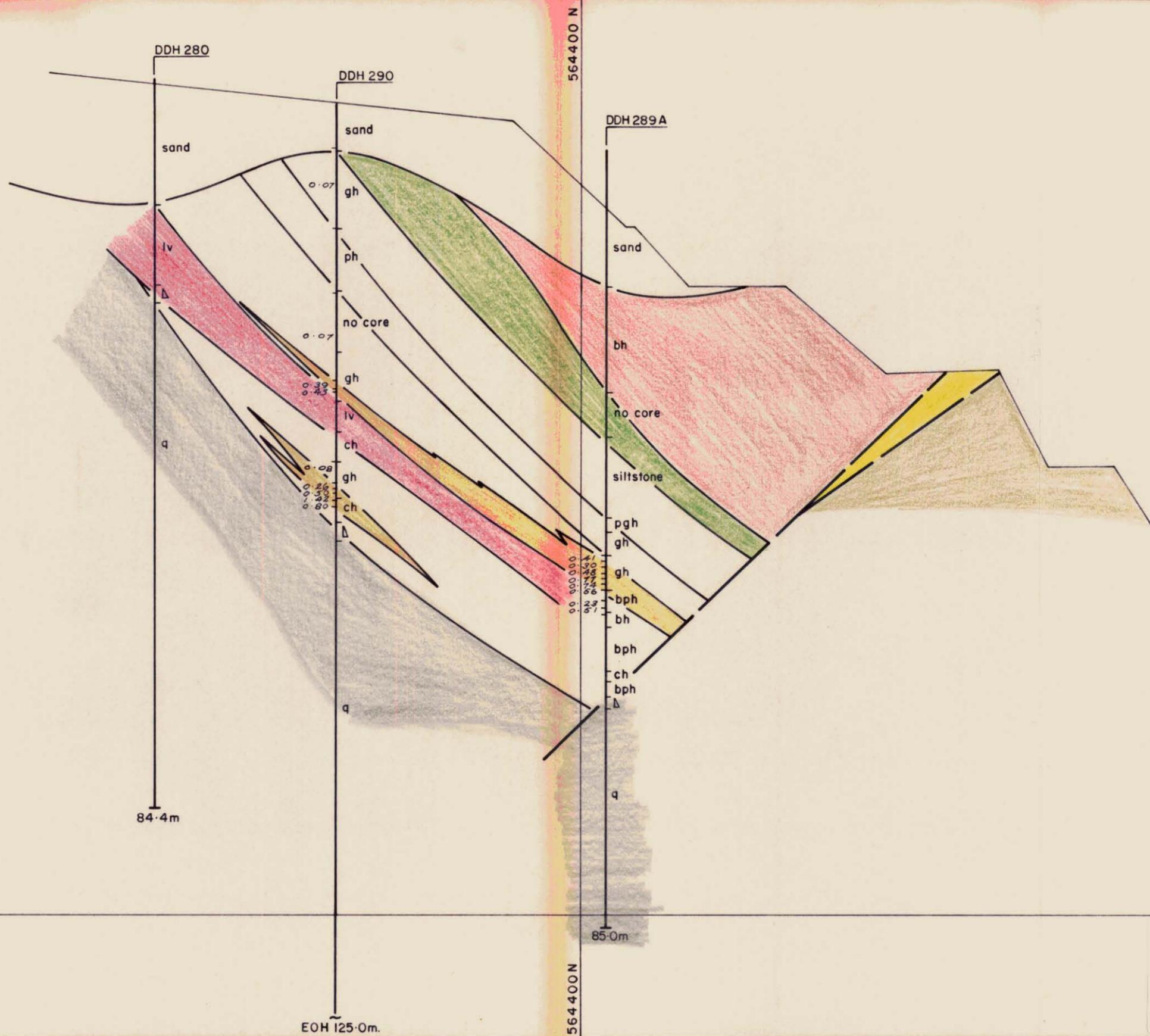
DATE MAR., 1974  
 GEOLOGIST M.J.D.  
 DRAWN R.F.  
 CHECKED M.C.R.

GEOPEKO LIMITED  
 KING ISLAND GROUP

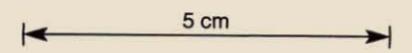


No. KGI-110

GEOLOGICAL CROSS-SECTION 14  
 WEDGE BLOCK  
 No. 1 OREBODY



ISG REFER REPORT 70-0676



LEGEND:

- |       |                                    |     |                                      |   |                |
|-------|------------------------------------|-----|--------------------------------------|---|----------------|
| bh    | Hangingwall biotite hornfels       | bfb | Banded footwall beds (unmineralized) | 60                                      | Strike and dip |
| pgh   | Pyroxene garnet hornfels           | bph | Biotite pyroxene hornfels            | Fault                                   |                |
| gh/ch | Garnet hornfels/calcite hornfels   | lv  | Lower metavolcanics                  | Degree of uncertainty in Fault position |                |
| bfb   | Banded footwall beds (mineralized) | q   | Quartzite                            | Breccia                                 |                |

DATE: MAR., 1974  
 GEOLOGIST: M.J.D.  
 DRAWN: R.F.  
 CHECKED: M.C.R.

**GEOPEKO LIMITED**  
KING ISLAND GROUP

No. KGI-III

**GEOLOGICAL CROSS-SECTION 15**  
**WEDGE BLOCK**  
 No. 1 OREBODY



# GEOPEKO LIMITED

KING ISLAND

## Ore Resource-Reserve Table No.1 Orebody - (Underground) (18.2.75)

	TOTAL	15	14	13	12	11	10	9	8	7	6	5 3S	2S	1S	00
-25m.R.L.	16	6,040 0.58	3,240 0.59	2,240 0.54	560 0.73										
	17	51,960 0.57	6,050 0.49	15,390 0.49	12,040 0.59	8,220 0.67	7,190 0.63	3,070 0.63							
	18	103,220 0.57	11,580 0.44	16,970 0.49	20,670 0.55	19,070 0.57	17,070 0.54	4,960 0.71	2,900 1.05						
-50m.R.L.	19	85,520 0.56	6,010 0.42	7,280 0.56	19,800 0.57	19,070 0.62	11,160 0.65	16,500 0.51	5,700 0.45						
	20	84,570 0.64	5,790 0.46	1,230 0.65	7,270 0.58	11,570 0.61	11,500 0.62	18,060 0.67	22,150 0.74	7,000 0.62					
	21	85,080 0.63	5,100 0.46	6,950 0.78	8,370 0.63	6,240 0.46	10,150 0.54	18,270 0.66	18,200 0.76	6,800 0.46	3,000 0.69	2,000 0.71			
-75m.R.L.	BELOW 21	134,830 0.61	760 0.65	4,340 0.70	930 0.72	1,170 0.27	16,260 0.49	56,030 0.61	31,340 0.68	4,000 0.77	20,000 0.58				
		551,220 0.60	Ore Resource. Tonnes at Grade % WO <sub>3</sub>												

### SUMMARY

**NOTE:**

Method of grade calculation: modified polygonal method of weighted arithmetic means.  
Method of tonnes calculation: truncated cone formula.

**LEGEND:**

— final pit design

PROBABLE ORE RESOURCE	C LENS.....	551,220 T. at 0.60%	}-----762,300 TONNES at 0.59% WO <sub>3</sub>
	B LENS.....	15,070 T. at 1.09%	
	WEDGEBLOCK.....	147,310 T. at 0.52%	
	WESTERN EXTENSION.....	48,700 T. at 0.62%	
PRIMARY ORE RESERVE	C LENS (open cut).....	NIL	}-----8,600 TONNES at 0.40% WO <sub>3</sub>
	C LENS (underground).....	NOT CALCULATED	
	No's 1,5 and CRUSHER STOCKPILES.....	8,600 T. at 0.40%	
SECONDARY ORE RESERVE	WEDGEBLOCK.....	10,000 T. at 0.5%	}-----99,200 TONNES at 0.3% WO <sub>3</sub>
	No's. 2 and 3 STOCKPILES.....	89,200 T. at 0.3%	
TAILINGS DAMS	No's. 1,2,3 and 4.....	43,000 Tonnes at 0.52% WO <sub>3</sub>	
	VANNER DAM.....	2,500 Tonnes at 6.70% WO <sub>3</sub>	
	SULPHIDE DAM.....	150 Tonnes at 22.84% WO <sub>3</sub>	

157053

5 cm

SCALE: 1:1000m.hor.  
1:500m.vert.  
DATE: FEB., 1975  
COMPILED BY: M.J.D.  
DRAWN BY: R.F.  
CHECKED BY: M.C.R.

93-3463