

# DEPARTMENT OF MINES SOUTH AUSTRALIA

GEOLOGICAL SURVEY IRON EXPLORATION SECTION

3

REPORT NO. 1

ON

THE GREENPATCH JASPILITE STRUCTURE HD. LINCOLN, SOUTHERN EYRE PENINSULA.

by

W. G. Shackleton Geologist

> Rept. Bk. No.57/9 G.S. No. 2665 D.M. 241/63

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# HD. LINCOLN, SOUTHERN EYRE PENINSULA

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# W. G. Shackleton Geologist

# Iron Exploration Section Geological Survey

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#### PLAN REFERENCE

<u>No</u> .	Title	Scale
63-620	Geological Plan of the Greenpatch Jaspilite Structure. Hd. Lincoln, Southern Eyre Peninsula	1500' to 1"
63-621	Geological Plan of the Nose of the Greenpatch Jaspilite Structure.	400' to l"
S 3440	Greenpatch District Iron Deposit Sec. 147 Hd. Lincoln 750 yds. NNW of Wattleton Homestead Geological Sketch Plan.	100' to l"

# PLAN REFERENCES (contd.)

	<u>No</u> .	Title		lca:	le
S	3445	Greenpatch District, Hd. Lincoln Jaspilite Structure	1 m 7	to I	1"
S	3446	Greenpatch District, Hd. Lincoln Fold Types in the Jaspilites			
S	3447	Greenpatch District, Hd. Lincoln Tectonic and Sedimentary Structures in the Jaspilites			
S	3448	Greenpatch Jaspilite Structure Hd. Lincols Chip Sample Locations	n 100'	to	ı"

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#### THE GREENPATCH JASPILITE STRUCTURE

#### HD. LINCOLN, SOUTHERN EYRE PENINSULA

### ABSTRACT

The major structure is probably an overturned north plunging anticline, the nose possibly containing 450,000 tons per vertical foot and averaging 45.8% iron. Preliminary tests at Australian Mineral Development Laboratories suggest that the ore may be amenable to beneficiation.

A small high grade body assaying 57.4% iron possibly containing 1,250 tons per vertical foot was located.

Recommendations for testing both areas are made.

#### 1. INTRODUCTION

Detailed geological mapping of the Greenpatch area (Hd. Lincoln) was initiated as part of a programme of mapping the known iron formations of the Lincoln Uplands on enlarged aerial photographs. Mapping during the periods 27.2.63 to 6.3.63 and 12.3.63 to 19.3.63 showed that the structure was exceedingly complicated and further mapping of the nose of the major structure was carried out during the period 11.6.63 to 28.6.63 on photographs enlarged to a scale of 400' to 1 inch.

The structurally complex area of jaspilite coincides with an aeromagnetic anomaly and it is necessary to determine the structure in this area to locate exploratory drill holes.

### 2. PREVIOUS INVESTIGATIONS

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Johns (1961)\*, being based on 15 1-mile maps, is the authoritative work on Southern Eyre Peninsula.

A high level (1500') aeromagnetic survey of the whole of the Southern Eyre Peninsula was flown at 1 mile spacings by Adastra Hunting Geophysics Ltd. for the Department of Mines in 1954. The same company flew a low level (300') aeromagnetic survey at  $\frac{1}{2}$  mile spacings over the Lincoln Uplands for the Department in 1961. Both surveys were reduced by the Exploration Geophysical Section of the Department. The surveys indicate a strong WSW-ENE lineament which extends across the Greenpatch district. To the north of this lineament is a positive anomaly and to the south a smaller negative anomaly.

The results of ground gravity and magnetic traverses over the Greenpatch district carried out by the Exploration Geophysical Section as part of the present project will be shown in the relevant geophysical report. However, plans 63-620 and 63-621 show the relation of geology to ground magnetic and gravity traverses.

A representative bulk sample of 200 lbs. of jaspilite  $\angle No. 1$  (Surface) sample, Greenpatch area/ was taken from body F (21000E 23500N) by the writer and sent to Australian Mineral Development Laboratories (A.M.D.L.) for metallurgical testing. The results of this work are discussed in a report by R. Lorenz entitled "Examination of Iron Ore from Greenpatch Area", a preliminary copy being received in June 1963.

#### 3. REGIONAL GEOLOGY

The Lincoln 1 mile sheet (Johns 1958) shows the jaspilites of the Greenpatch district as forming a narrow, south plunging syncline with a north-south axial plane. The eastern beds of the Greenpatch area are on the same limb as the jaspilite

\* Johns, R.K., 1961. Geology and Mineral Resources of Southern Eyre Peninsula. <u>Bull. Geol. Surv. S. Aust. 37</u>. beds west of Little Swamp. In addition to the Iron Formation, the Hutchison Group includes quartzite and amphibolite which are distinguishable from the undifferentiated metasediments. Very little Archaean outcrop is shown on the map, basement being shown covered by Tertiary laterites and Recent alluvium. The recent mapping, being more detailed, has thrown doubt on the original structural interpretation.

### 4. DETAILED GEOLOGY

# 4.1. <u>LITHOLOGIES</u>

Jaspilite. This rock type is of Upper Archaean age 4.1.1. (Hutchison Group). Typically the jaspilite consists of 1/16 - 1/2" alternating bands of martitised magnetite and silica in beds approximately 150' in width. Some specimens contain rare hematite. Minor unoxidised magnetite remains in some specimens. Jaspilite breccia has been found which shows that the brecciated siliceous bands have been healed by mobilised iron oxides. Along strike, in some cases, the jaspilites appear to grade into breccias which are low in iron content and which are similar to quartz breccias found in the near vicinity of jaspilite outcrops. Intraformational breccias have been found on a small scale (See fig. 2. plan S 3447). Examples of typical jaspilite may be found in both bodies D and M (Grid Refs, 20500E 21000N and 21500E 21000N).

The jaspilites have been folded at all stages of consolidation from a plastic to brittle condition, these conditions resulting in fold types illustrated in figs. 1-6 plan S 3446, and fig. 1 plan S 3447. Folds measure from  $\frac{1}{8}$ " across limbs in minor folds to the major structure with a distance of  $2\frac{1}{4}$  miles across the limbs. Fold axes generally trend northerly but there are many exceptions with apparent random axial directions.

Reversal of sense of folds, i.e. one bed which exhibits an east limb north plunging anticline structure adjacent to a west limb north plunging anticline structure, is visible on all

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scales from 3" between the two folds to several tens of feet (see figs. 2 and 4 plan S 3446 and the structures of jaspilite bodies D and M).

On a larger scale, approximately 100' across limbs, are folds in several of the jaspilite bodies e.g. D, E (20500E 23000N) and at 20500E 24000N with axes striking up to  $45^{\circ}$  to the general strikes of the beds. Such folds appear in the same sense across the nose of the structure, this sense not being compatible with either a north plunging anticline or a south plunging syncline. Other folds of similar size but opposite sense to those above appear in body J (20250E 22600N) and at 12500E 26000N. The jaspilite body to the west of Little Swamp has two folds of opposing sense.

4.1.2. <u>Quartzite</u>. The type of Upper Archaean quartzite which occurs most frequently is schistose and flaggy, generally white but also pink and grey and having a prominent foliation. Less common quartzites are structureless and are very compact. Others grade into white to pink very friable sandstones. Frequently, in the schistose varieties, plates of muscovite up to  $\frac{1}{4}$ " diameter are contained in the foliation planes. Typical quartzite can be found in the first railway cutting south of the Flinders Highway crossing (6500E 27250N).

4.1.3. <u>Schists</u> of the Upper Archaean Hutchison Group are commonly purple to red, rarely white, highly sheared quartzitic schists. The schists are identified by the sheared appearance of the clay and mica minerals which are probably the result of retrogressive metamorphism accompanying the shearing. A rare biotite quartzite schist is found as float only.

4.1.4. <u>Canga</u> is a Tertiary (?) rock herein defined as consisting of martite and/or iron rich jaspilite fragments cemented by an iron mineral or contained in a sandy matrix which is cemented

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by an iron mineral. In some localities (e.g. between bodies E and F, 21000E 23500N) the canga is of relatively high iron content, containing fragments of martite and martite rich jaspilite up to 2" in diameter. This rock may indicate jaspilite in the vicinity.

# 4.1.5 Minor Lithologies

#### These are:

(a) a black manganiferous ore of Upper Archaean age which is slaggy in appearance. It is found at the western edge of body E (20500E 23500N) at 19500E 24200N and, as float, at 21000E 26000N.

(b) Proterozoic(?) Conglomerate. This consists of well rounded quartzitic pebbles in a well cemented sandy matrix. It has a well defined strike with the impression that the rock is steeply dipping. It is found only at 9500E 26500N.

(c) a hematite and/or limonite sandstone which is a completely structureless yellowish brown to purple rock. The quartz grains are generally of remarkably uniform size, about 1/16" diameter. The rock is widespread and is probably a derived sediment allied to a laterite. It is thought to be Tertiary in age.

(d) a sandy laterite of Tertiary age which is a limonitic rock containing up to 20% quartz grains. It is found only as float.

(e) A Tertiary nodular laterite which is widespread and commonly thin but with the thicker areas worked for road metal in scattered quarries.

(f) A Tertiary(?) conglomerate. There are only three or four small outcrops. (e.g. on the north shore of Little Swamp).

(g) a steely blue high grade hematite rock occurs at location 147 (8500E 23500N). It is highly brecciated and has

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been healed by secondary quartz. Some of the hematite has been altered to goethite. As the brecciation suggests faulting, age correlation is impossible with the present information.

(h) Limonite. This is generally pure except for a small percentage of included angular quartz grains. Goethite is a rare form. It is probably of Tertiary age.

# 4.2. STRUCTURE

At location 147 (8500E 23500N) the high grade hematite outcrop trends NE which is subparallel to a gravity trend obtained from the geophysical survey of the area (see plan 63-620 and S 3440). This trend is also sub parallel to the western extremity of the west limb of the major structure and is off-set by 3000 feet normal to the strike. It is thus possible that the high grade body is a faulted continuation of the west limb. Alternatively, the west limb may continue NW around the northern edge of the north plunging anticline in quartzite found in that area. The presence of the Proterozoic(?) conglomerate at 9500E 26500N suggests the existence of a major unconformity, although this is by no means proved.

A number of water bores and wells in the area (see plan 63-620) encountered basement at shallow depth, a maximum of 103'(?), all bottoming in "gneiss". Attempts were made to contour the basement surface but although considerable data were available for the area west of the railway, there were insufficient data to construct a reliable basement contour map for the area covered by the geophysical survey. As much of this area is low lying, bores and wells are shallow and have not been completed to basement. To the far west, a trough in the basement rock could conceivably be considered to correspond to the western extremity of the strong lineament of the aeromagnetic surveys.

Two jaspilite beds outline the complexly folded major structure of the Greenpatch district.

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The east limb of this structure is extended south through small outcrops of quartz breccia, limonite and ferruginous quartzite, through the Flinders Highway body and thence through the jaspilite beds west of Little Swamp. A possible west limb north plunging anticline structure exists in the ferruginous quartzite 2250' SSE of the Greenpatch cross roads. The Flinders Highway body (C) is an east limb north plunging anticline structure 200' in width. Most of the east limb dips vertically or steeply west with rare easterly dips. This limb could not be followed for much more than a mile north of the Greenpatch cross roads.

The west limb does not outcrop well but geophysical trends suggest a continuity between outcrops. This limb is folded into a north plunging syncline to the west of the nose of the major structure with smaller north plunging anticlines and synclines further to the west. Its most western extremity is marked by a jaspilite and a ferruginous quartz breccia. A small north plunging syncline exists in body K (13500E 25500N).

The steep westerly to vertical dips on the eastern limb and the flatter north to north west dips on the western limb are consistent with an overturned north plunging anticline with the axial plane dipping steeply to the west. See plan S 3445.

The large scale folds found in bodies D and E and discussed in section 4.1.1. have axes which are sub parallel with the axes of a larger NW plunging syncline between bodies E and F (21000E 23500N) and smaller folds to the NW (20600E 24200N). Such agreement in axial directions of minor folds across the axis of the major fold suggests a second order deformation. Complex structures such as found at 17000E 24000N are difficult to explain although it is possible that large scale slumping of the jaspilites has taken place.

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The above interpretation suggests that the major structure is not synclinal. A syncline does exist to the west of the main anticline (19500E 24000N), however, and this, together with the several minor synclines (e.g. 21000E 23500N) could possibly provide traps for a substantial amount of ore. Sections 159 and 160 are thus the most promising areas for exploration.

### 5. SAMPLING

Chip samples were taken across the general strike of all the important outcropping jaspilite bodies during the first visit to the area, the lines of sampling being shown in plan S 3448. The samples were sent to A.M.D.L. for assay for iron and insolubles, the results being shown in table 1.

Table 2 gives the result of a full analysis of a chip sample taken from the high grade body at location 147.

	±			
Sample Mark	Sample Number	Outcrop Number	Iron Fe%	Insolubles %
A 399/63	2	А	41.6	31.8
A 400/63	3	А	41.1	33.1
A 401/63	. 8	C	47.8	23.4
A 402/63	14	D	44.4	31.4
A 403/63	15	Е	44.2	32.6
A 404/63	16	F	44.9	31.2
A 405/63	43	J	49.2	23.6
A 406/63	57a	L	40.1	36.4
A 407/63	64a	M	51.9	20.4
A 408/63	65a ·	0	40.4	37.6
Average	· · ·		44.6	

#### TABLE 1

Analyses of samples from Greenpatch Jaspilite Bodies

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	-		
Component		%	1
Acid Soluble iron	Fe	57.4	
Acid Insoluble Matter		15.8	
Silica	$sic_{p}$	15.4	
Aluminium Oxide	Al203	0.41	
Calcium Oxide	CaO	0.29	
Magnesium Oxide	MgO	0,06	
Titanium Oxide	TiO2	0.011	
Phosphorus pentoxide	P205	0.10	
Manganese	Mn	0.044	
Sulphur	S	0.007	

TABLE 2 Analysis of Sample A451/63 from High Grade Body

### 6. CONCLUSIONS AND RECOMMENDATIONS

The jaspilites of the Greenpatch district probably form an overturned north plunging anticline which contains several ore traps. Near the nose of the structure where the jaspilites are medium grained it is possible that they may be beneficiated easily. Assuming an average bed width of 150' over an aggregate strike length of 6.8 miles, the potential resources of this area (see plan 63-621) could possibly approximate 450,000 tons of ore per vertical foot. The average grade of ore in this area would be 45.8% iron. As the district is only 7 miles from Port Lincoln an exploration programme is recommended. Sections 159 and 160 contain the two most promising drilling targets in the form of synclinal traps, one at 16500E 26000N and a larger one at 19500E 24000N.

Assuming a length of 300' and a maximum width of 75', the resources of the small high grade body at location 147 are possibly 1,250 tons of direct shipping ore per vertical foot. This body should have priority for drilling to determine grade and it is therefore recommended that a diamond drill be sited as shown on plan S 3440. This site has yet to be pegged. Further drilling in this area will depend on the results obtained from this first hole. Results of the geophysical

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work indicate that this body extends further to the  $S_*W_*$ 

W. G. Shackleton Geologist IRON EXPLORATION SECTION

WGS:AGK 15/7/63

DIAMOND DRILL HOLE NO. GD3.

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	t of Witness and an own of the state of the			ANALYSIS Per cent			:
FeCaMg110'120'A1059/645.5 $39.2$ 15.5 $4.55^{-1}$ 120'130'A10609.2542.313.5 $3.25$ 130'140'A106112.964.86.200.95140'150'A106218.954.66.750.95150'160'A106319.254.76.550.40160'170'A106420.956.85.200.45170'180'A106513.657.27.701.75180'190'A106613.548.99.602.55190'200'A106716.949.36.751.70200'210'A106817.253.35.901.05210'220!A106919.556.65.200.80220'230'A107019.960.24.300.25230'240'A107124.356.83.100.30240'250'A107218.437.010.42.70250'260'A107521.551.06.050.95280'290'A107617.955.25.701.35260'270'A107617.925.25.701.35260'270'A107617.925.25.701.55280'290'A107617.925.25.701.55280'290'A107627.935				Soluble Iron	Insolubles.	Calcium.	Magnesiun
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130'140'A106112.9 $64.8$ $6.20$ $0.95$ 140'150'A106218.954.6 $6.75$ $0.95$ 150'160'A106319.254.7 $6.55$ $0.40$ 160'170'A106420.956.8 $5.20$ $0.45$ 170'180'A106513.6 $57.2$ $7.70$ $1.75$ 180'190'A106613.5 $48.9$ $9.60$ $2.55$ 190'200'A106716.9 $49.3$ $6.75$ $1.70$ 200'210'A106817.2 $53.3$ $590$ $1.05$ 210'220'A107019.9 $60.2$ $4.30$ $0.25$ 230'24.0'A107124.3 $56.8$ $3.10$ $0.30$ 240'250'A107119.5 $47.11$ $7.0$ $1.35$ 260'270'A107419.5 $47.11$ $7.0$ $1.35$ 260'270'A107521.5 $51.0$ $6.05$ $0.95$ 280'290'A107719.2 $47.44$ $690$ $2.10$ 300'310'A107821.1 $40.6$ $8.65$ $1.35$ 290'300'A107719.2 $47.44$ $6.90$ $2.10$ 300'310'A107821.1 $40.6$ $8.65$ $1.65$ 310'320'A107821.1 $40.6$ $8.65$ $1.65$ 330'340'A108121.7 $30.9$ $11.6$ $3.10$ 3				5.5	39.2	15.5	4.55 <sup>±</sup>
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160' $170'$ $A1064$ $20.9$ $56.8$ $5.20$ $0.45$ $170'$ $180'$ $A1065$ $13.6$ $57.2$ $7.70$ $1.75$ $180'$ $190'$ $A1066$ $13.5$ $48.9$ $9.60$ $2.55$ $190'$ $200'$ $A1067$ $16.9$ $49.3$ $6.75$ $1.70$ $200'$ $210'$ $A1068$ $17.2$ $53.3$ $5.90$ $1.05$ $210'$ $220'$ $A1069$ $19.5$ $56.6$ $5.20$ $0.80$ $220'$ $230'$ $A1070$ $19.9$ $60.2$ $4.30$ $0.25$ $230'$ $240'$ $A1071$ $24.3$ $56.8$ $3.10$ $0.30$ $240'$ $250'$ $A1072$ $18.4$ $37.0$ $10.4$ $2.70$ $250'$ $260'$ $A1073$ $19.5$ $47.1$ $7.0$ $1.35$ $260'$ $270'$ $A1074$ $19.3$ $50.8$ $6.55$ $1.35$ $270'$ $280'$ $A1075$ $21.5$ $51.0$ $6.05$ $0.95$ $280'$ $290'$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290'$ $300'$ $A1077$ $19.2$ $47.4$ $6.96$ $2.50$ $300'$ $A1077$ $19.2$ $47.4$ $6.96$ $2.50$ $310'$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50$ $310'$ $A1078$ $21.1$ $40.6$ $6.55$ $1.35$ $320'$ $330'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10$ $340'$	140'	150'	A1062	18.9	54.6	6.75	0.95
$170^1$ $180^1$ $A1065$ $13.6$ $57.2$ $7.70$ $1.75$ $180^1$ $190^1$ $A1066$ $13.5$ $48.9$ $9.60$ $2.55$ $190^1$ $200^1$ $A1067$ $16.9$ $49.3$ $6.75$ $1.70$ $200^1$ $210^1$ $A1068$ $17.2$ $53.3$ $5.90$ $1.05$ $210^1$ $220^1$ $A1069$ $19.5$ $56.6$ $5.20$ $0.80$ $220^1$ $230^1$ $A1070$ $19.9$ $60.2$ $4.30$ $0.25$ $230^1$ $240^1$ $A1071$ $24.3$ $56.8$ $3.10$ $0.30$ $240^1$ $250^1$ $A1072$ $18.4$ $37.0$ $10.4$ $2.70$ $250^1$ $260^1$ $A1073$ $19.5$ $47.1$ $7.0$ $1.35$ $260^1$ $270^1$ $A1074$ $19.3$ $50.8$ $6.55$ $1.35$ $270^1$ $280^1$ $A1075$ $21.5$ $51.0$ $6.05$ $0.95$ $280^1$ $290^1$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290^1$ $300^1$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10^1$ $300^1$ $310^1$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50^1$ $310^1$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320^1$ $340^1$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10^1$ $340^1$ $350^1$ $A1083$ $33.4$ $37.3$ $5.75$ $7.75$ $0.65$ $350^1$ $360^1$ $A10$	150'	160'	A1063	19.2	54.7	6.55	0.40
180' $190'$ $A1066$ $13.5$ $48.9$ $9.60$ $2.55$ $190'$ $200'$ $A1067$ $16.9$ $49.3$ $6.75$ $1.70$ $200'$ $210'$ $A1068$ $17.2$ $53.3$ $5.90$ $1.05$ $210'$ $220'$ $A1069$ $19.5$ $56.6$ $5.20$ $0.80$ $220'$ $230'$ $A1070$ $19.9$ $60.2$ $4.30$ $0.25$ $230'$ $240'$ $A1071$ $24.3$ $56.8$ $3.10$ $0.30$ $240'$ $250'$ $A1072$ $18.4$ $37.0$ $10.4$ $2.70'$ $250'$ $260'$ $A1073$ $19.5$ $47.1$ $7.0$ $1.35'$ $260'$ $270'$ $A1074$ $19.3$ $50.8$ $6.55'$ $1.35'$ $260'$ $270'$ $A1074$ $19.3$ $50.8$ $6.55'$ $1.35'$ $270'$ $280'$ $A1077$ $21.5'$ $51.0'$ $6.05'$ $0.95'$ $280'$ $290'$ $A1076'$ $17.9'$ $55.2'$ $5.70'$ $1.35'$ $290'$ $300'$ $A1077'$ $19.2'$ $47.4'$ $6.90'$ $2.10''''''''''''''''''''''''''''''''''''$	160'	170'	A1064	20.9	56.8	5.20	0.45
190'200'A106716.949.36.751.70200'210'A106817.253.35.901.05210'220'A106919.556.65.200.80220'230'A107019.960.24.300.25230'240'A107124.356.83.100.30240'250'A107218.437.010.42.70250'260'A107319.547.17.01.35260'270'A107419.350.86.551.35270'280'A107521.551.06.050.95280'290'A107617.955.25.701.35290'300'A107719.247.46.902.10300'310'A107821.140.68.652.50310'320'A107921.036.210.02.86320'330'A108027.233.78.851.85330'340'A108121.730.911.63.10340'350'A108229.537.57.750.65350'360'A108333.437.35.700.40360'370'A108428.636.37.251.05370'380'A108525.332.79.352.90380'383'A108627.139.37.80.90400' <t< td=""><td>170'</td><td>180'</td><td>A1065</td><td>13.6</td><td>57.2</td><td>7.70</td><td>1.75</td></t<>	170'	180'	A1065	13.6	57.2	7.70	1.75
200' $210'$ $A1068$ $17.2$ $53.3$ $5.90$ $1.05$ $210'$ $220'$ $A1069$ $19.5$ $56.6$ $5.20$ $0.80$ $220'$ $230'$ $A1070$ $19.9$ $60.2$ $4.30$ $0.25$ $230'$ $240'$ $A1071$ $24.3$ $56.8$ $3.10$ $0.30$ $240'$ $250'$ $A1072$ $18.4$ $37.0$ $10.4$ $2.70$ $250'$ $260'$ $A1072$ $18.4$ $37.0$ $10.4$ $2.70$ $250'$ $260'$ $A1072$ $18.4$ $37.0$ $10.4$ $2.70$ $250'$ $260'$ $A1077$ $19.5$ $47.1$ $7.0$ $1.35$ $260'$ $270'$ $A1074$ $19.3$ $50.8$ $6.55$ $1.35$ $270'$ $280'$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290'$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290'$ $300'$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10$ $300'$ $310'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.86$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $340'$ $A1084$ $29.5$ $37.5$ $7.75$ $0.66$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40$ $360'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$	180'	190'	A1066	13.5	48.9	9.60	2.55
210' $220'$ $A1069$ $19.5$ $56.6$ $5.20$ $0.80$ $220'$ $230'$ $A1070$ $19.9$ $60.2$ $4.30$ $0.25$ $230'$ $240'$ $A1071$ $24.3$ $56.8$ $3.10$ $0.30$ $240'$ $250'$ $A1072$ $18.4$ $37.0$ $10.4$ $2.70$ $250'$ $260'$ $A1073$ $19.5$ $47.1$ $7.0$ $1.35$ $260'$ $270'$ $A1074$ $19.3$ $50.8$ $6.55$ $1.35$ $260'$ $270'$ $A1075$ $21.5$ $51.0$ $6.05$ $0.95$ $280'$ $280'$ $A1075$ $21.5$ $51.0$ $6.05$ $0.95$ $280'$ $290'$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290'$ $300'$ $A1077$ $19.2$ $47.44$ $6.90$ $2.10$ $300'$ $310'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $A1083$ $33.44$ $37.3$ $5.70$ $0.40$ $360'$ $A1083$ $33.44$ $37.3$ $5.70$ $0.40$ $360'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $A1085$ $25.3$ <td< td=""><td>190'</td><td>2001</td><td>A1067</td><td>16.9</td><td>49.3</td><td>6.75</td><td>1.70</td></td<>	190'	2001	A1067	16.9	49.3	6.75	1.70
220' $230'$ $A1070$ $19.9$ $60.2$ $4.30$ $0.25$ $230'$ $240'$ $A1071$ $24.3$ $56.8$ $3.10$ $0.30$ $240'$ $250'$ $A1072$ $18.4$ $37.0$ $10.4$ $2.70$ $250'$ $260'$ $A1073$ $19.5$ $47.1$ $7.0$ $1.35$ $260'$ $270'$ $A1074$ $19.3$ $50.8$ $6.55$ $1.35$ $260'$ $270'$ $A1074$ $19.3$ $50.8$ $6.55$ $1.35$ $260'$ $270'$ $A1077$ $19.5$ $47.1$ $7.0$ $1.35$ $260'$ $290'$ $A1076$ $17.9$ $55.2$ $57.0$ $1.35$ $290'$ $300'$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10$ $300'$ $310'$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50'$ $310'$ $A20'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.8q'$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85'$ $1.85'$ $330'$ $A1081$ $21.7$ $30.9$ $11.6'$ $3.10'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6'$ $3.10'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6'$ $3.10'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6'$ $1.05'$ $350'$ $360'$ $A1083$ $33.4'$ $37.3'$ $5.70'$ $0.40'$ $340'$ $A10$	200'	210'	A1068	17.2	53.3	5.90	1.05
230'240'A107124.356.83.100.30240'250'A107218.437.010.42.70250'260'A107319.547.17.01.35260'270'A107419.350.86.551.35270'280'A107521.551.06.050.95280'290'A107617.955.25.701.35290'300'A107719.247.46.902.10300'310'A107821.140.68.652.50310'320'A107921.036.210.02.80320'330'A108027.233.78.851.85330'340'A108121.730.911.63.10340'350'A108229.537.57.750.65350'360'A108333.437.35.700.40360'370'A108428.638.37.251.05370'380'A108525.332.79.352.90380'A108525.332.79.352.90380'383'A108626.938.67.601.75383'390'A1857/6415.342.210.13.10400'418584.9043.211.35.60400'418625.2543.813.15.05400'4186121.536.7 </td <td>210'</td> <td>2201</td> <td>A1069</td> <td>19.5</td> <td>56.6</td> <td>5.20</td> <td>0.80</td>	210'	2201	A1069	19.5	56.6	5.20	0.80
240' $250'$ $A1072$ $18.4$ $37.0$ $10.4$ $2.70$ $250'$ $260'$ $A1073$ $19.5$ $47.1$ $7.0$ $1.35$ $260'$ $270'$ $A1074$ $19.3$ $50.8$ $6.55$ $1.35$ $270'$ $280'$ $A1075$ $21.5$ $51.0$ $6.05$ $0.95$ $280'$ $290'$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290'$ $300'$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10$ $300'$ $310'$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50$ $310'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40'$ $360'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90'$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60'$ $1.75'$ </td <td>220 t</td> <td>230'</td> <td>A1070</td> <td>19.9</td> <td>60.2</td> <td>4.30</td> <td>0.25</td>	220 t	230'	A1070	19.9	60.2	4.30	0.25
250' $260'$ $A1073$ $19.5$ $47.1$ $7.0$ $1.35$ $260'$ $270'$ $A1074$ $19.3$ $50.8$ $6.55$ $1.35$ $270'$ $280'$ $A1075$ $21.5$ $51.0$ $6.05$ $0.95$ $280'$ $290'$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290'$ $300'$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10$ $300'$ $310'$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50$ $310'$ $320'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320'$ $330'$ $A1080$ $27.2$ $35.7$ $8.85$ $1.85$ $330'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70'$ $0.40'$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25'$ $1.05'$ $370'$ $383'$ $A1085$ $25.3$ $32.7'$ $9.35'$ $2.90'$ $380'$ $A1085$ $25.3$ $32.7'$ $9.35'$ $2.90'$ $380'$ $A1085$ $25.3'$ $32.7'$ $9.35'$ $2.90'$ $380'$ $A1085$ $25.3'$ $32.7'$ $9.35'$ $2.90'$ $380'$ $A1086$ $26.9'$ $38.6'$ $7.60'$ $1.75'$ $383'$ $A1086$ $26.9'$ $38.6'$ $7.6'$ $1.75'$ $383'$ <td>230'</td> <td>240'</td> <td>A1071</td> <td>24.3</td> <td>56.8</td> <td>3.10</td> <td>0.30</td>	230'	240'	A1071	24.3	56.8	3.10	0.30
260' $270'$ $A1074$ $19.3$ $50.8$ $6.55$ $1.35$ $270'$ $280'$ $A1075$ $21.5$ $51.0$ $6.05$ $0.95$ $280'$ $290'$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290'$ $300'$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10$ $300'$ $310'$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50$ $310'$ $320'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70'$ $0.40$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25'$ $1.05'$ $370'$ $380'$ $A1085$ $25.3$ $32.7'$ $9.35'$ $2.90'$ $380'$ $A1085$ $25.3$ $32.7'$ $9.35'$ $2.90'$ $380'$ $A1085$ $26.9$ $38.6'$ $7.60'$ $1.75'$ $383'$ $390'$ $A1857/64$ $15.3'$ $42.2'$ $10.1'$ $3.10'$ $390'$ $400'$ $A1859$ $17.9'$ $45.6'$ $8.6'$ $2.10'$ $410'$ $A1859$ $17.9'$ $45.6'$ $8.6'$ $2.10'$ $410'$ $A1860$ $27.1'$ $39.3'$ $7.8'$ $0.90'$ <td>240'</td> <td>250'</td> <td>A1072</td> <td>18.4</td> <td>37.0</td> <td>10.4</td> <td>2.70</td>	240'	250'	A1072	18.4	37.0	10.4	2.70
270' $280'$ $A1075$ $21.5$ $51.0$ $6.05$ $0.95$ $280'$ $290'$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290'$ $300'$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10$ $300'$ $310'$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50$ $310'$ $320'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25$ $1.05$ $370'$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $4000'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $410'$ $A1859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $A1$	250'	260'	A1073	19.5	47.1	7.0	1.35
270' $280'$ $A1075$ $21.5$ $51.0$ $6.05$ $0.95$ $280'$ $290'$ $A1076$ $17.9$ $55.2$ $5.70$ $1.35$ $290'$ $300'$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10$ $300'$ $310'$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50$ $310'$ $320'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70'$ $0.40'$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25'$ $1.05'$ $370'$ $380'$ $A1085$ $25.3$ $32.7'$ $9.35'$ $2.90'$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60'$ $1.75'$ $383'$ $390'$ $A1857/64$ $15.3'$ $42.2'$ $10.1'$ $3.10'$ $390'$ $4108'$ $A1866$ $26.9'$ $38.6'$ $7.60'$ $1.75'$ $383'$ $390'$ $A1857/64$ $15.3'$ $42.2'$ $10.1'$ $3.10'$ $400'$ $A1858$ $4.90'$ $43.2'$ $11.3'$ $5.60'$ $400'$ $41858$ $4.90'$ $43.2'$ $11.3'$ $5.05'$ $430'$ $A1860'$ $27.1'$ $39.3'$ $7.$	260'	270'	A1074	19.3	50.8	6.55	1.35
290' $300'$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10$ $300'$ $310'$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50$ $310'$ $320'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25$ $1.05$ $370'$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $400'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $400'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $400'$ $41863$ $3.50$	2701	280'	A1075	21.5	51.0		
290' $300'$ $A1077$ $19.2$ $47.4$ $6.90$ $2.10$ $300'$ $310'$ $A1078$ $21.1$ $40.6$ $8.65$ $2.50$ $310'$ $320'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70'$ $0.40'$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25'$ $1.05'$ $370'$ $380'$ $A1085$ $25.3$ $32.7'$ $9.35'$ $2.90'$ $380'$ $383'$ $A1086$ $26.9'$ $38.6'$ $7.60'$ $1.75'$ $383'$ $390'$ $A1857/64$ $15.3'$ $42.2'$ $10.1'$ $3.10'$ $390'$ $400'$ $A1858$ $4.90'$ $43.2'$ $11.3'$ $5.60'$ $400'$ $41858$ $4.90'$ $43.2'$ $11.3'$ $5.60'$ $400'$ $41860'$ $27.1'$ $39.3'$ $7.8'$ $0.90'$ $420'$ $A1860'$ $27.1'$ $39.3'$ $7.8'$ $0.90'$ $420'$ $41860'$ $27.1'$ $39.3'$ $7.8'$ $0.90'$ $420'$ $41861'$ $21.5'$ $36.7'$ $8.7'$ $2.55'$ $430'$ $41861'$ $21.5'$ $35.6'$ $11.1'$ $4.50'$	280'	290'	A1076	17.9	55,2	5.70	1.35
310' $320'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.80$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25$ $1.05$ $370'$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $31086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $31086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $31086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $4366$ $5.25$ $43.8$ $13.1$ $5.05$ $430'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $460'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.$	290'	300'	A1077	1	1		2.10
310' $320'$ $A1079$ $21.0$ $36.2$ $10.0$ $2.8q$ $320'$ $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25$ $1.05$ $370'$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $4360$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $41861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $440'$ $A1863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $460'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $41865$ $6.25$ $44.4$ $12.3$ $4.60$	300'	310'	A1078	21.1		8.65	2.50
320' $330'$ $A1080$ $27.2$ $33.7$ $8.85$ $1.85$ $330'$ $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25$ $1.05$ $370'$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41859$ $17.9$ $45.6$ $8.6$ $2.10$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $41860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $41861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $A1862$ $5.25$ $43.8$ $13.1$ $5.05$ $440'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $41864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $41865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $480'$ $A1866$ $9.35$ $47.9$ $10.8$ $3.7$	310'	320'	A1079	21.0	35.2	10.0	
330' $340'$ $A1081$ $21.7$ $30.9$ $11.6$ $3.10'$ $340'$ $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25$ $1.05$ $370'$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $4360'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $43.8$ $13.1$ $5.05$ $43.8$ $13.1$ $5.05$ $440'$ $A1863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $41864$ $2.00$ $48.7$ $12.3$ $5.35$		330'	A1080		1	8.85	:
340' $350'$ $A1082$ $29.5$ $37.5$ $7.75$ $0.65$ $350'$ $360'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25$ $1.05$ $370'$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $41860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $4362$ $5.25$ $43.8$ $13.1$ $5.05$ $430'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $440'$ $450'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $41864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $41865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $480'$ $A1866$ $9.55$ $47.9$ $10.8$ $3.70$	330'	1 1	A1081			11.6	3.10
350' $360'$ $A1083$ $33.4$ $37.3$ $5.70$ $0.40$ $360'$ $370'$ $A1084$ $28.6$ $38.3$ $7.25$ $1.05$ $370'$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $A1859$ $17.9$ $45.6$ $8.6$ $2.10$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $41863$ $25.25$ $43.8$ $13.1$ $5.05$ $420'$ $4366'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.35$ $450'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $41864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $41865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $4866'$ $9.35$ $47.9$ $10.8$ $3.70$		1 1	1		1		
360' $370'$ $A1084$ $28.6$ $38.3$ $7.25$ $1.05$ $370'$ $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $41859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $430'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $41862$ $5.25$ $43.8$ $13.1$ $5.05$ $440'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $41864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $41865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $4866$ $9.35$ $47.9$ $10.8$ $3.70$		1 1					ş
370' $380'$ $A1085$ $25.3$ $32.7$ $9.35$ $2.90$ $380'$ $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $410'$ $A1859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $430'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $41862$ $5.25$ $43.8$ $13.1$ $5.05$ $440'$ $450'$ $A1863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $41864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $41865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $486'$ $A1866$ $9.35$ $47.9$ $10.8$ $3.70$		1 1	A1084				-
380' $383'$ $A1086$ $26.9$ $38.6$ $7.60$ $1.75$ $383'$ $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $410'$ $A1859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $430'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $A1862$ $5.25$ $43.8$ $13.1$ $5.05$ $440'$ $450'$ $A1863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $460'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $470'$ $A1865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $480'$ $A1866$ $9.35$ $47.9$ $10.8$ $3.70$			A1085			9.35	3
383' $390'$ $A1857/64$ $15.3$ $42.2$ $10.1$ $3.10$ $390'$ $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $410'$ $A1859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $430'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $41862$ $5.25$ $43.8$ $13.1$ $5.05$ $440'$ $450'$ $A1863$ $3.50$ $53.6$ $11.1$ $4.50'$ $450'$ $460'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $470'$ $A1865$ $6.25$ $44.4$ $12.3$ $4.60'$ $470'$ $480'$ $A1866$ $9.35$ $47.9$ $10.8$ $3.70'$		1 1	Į.	(	1	1	1.75
390' $400'$ $A1858$ $4.90$ $43.2$ $11.3$ $5.60$ $400'$ $410'$ $A1859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $430'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $41862$ $5.25$ $43.8$ $13.1$ $5.05$ $430'$ $41862$ $5.25$ $43.8$ $13.1$ $5.05$ $430'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $A1863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $A1865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $480'$ $A1866$ $9.35$ $47.9$ $10.8$ $3.70$		1 1	A1857/64			10.1	
400' $410'$ $A1859$ $17.9$ $45.6$ $8.6$ $2.10$ $410'$ $420'$ $A1860$ $27.1$ $39.3$ $7.8$ $0.90$ $420'$ $430'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $41862$ $5.25$ $43.8$ $13.1$ $5.05$ $430'$ $41863$ $3.50$ $53.6$ $11.1$ $4.50$ $440'$ $450'$ $A1863$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $41865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $480'$ $A1866$ $9.55$ $47.9$ $10.8$ $3.70$		1 1		:1	43.2	11.3	5.60
420! $430'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $440'$ $A1862$ $5.25$ $43.8$ $13.1$ $5.05$ $440'$ $450'$ $A1863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $460'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $470'$ $A1865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $480'$ $A1866$ $9.35$ $47.9$ $10.8$ $3.70$		410'	A1859	17.9	45.6		2.10
420! $430'$ $A1861$ $21.5$ $36.7$ $8.7$ $2.55$ $430'$ $440'$ $A1862$ $5.25$ $43.8$ $13.1$ $5.05$ $440'$ $450'$ $A1863$ $3.50$ $53.6$ $11.1$ $4.50$ $450'$ $460'$ $A1864$ $2.00$ $48.7$ $12.3$ $5.35$ $460'$ $470'$ $A1865$ $6.25$ $44.4$ $12.3$ $4.60$ $470'$ $480'$ $A1866$ $9.35$ $47.9$ $10.8$ $3.70$	410 <sup>1</sup>	420'	A1860	, 27.1	39.3	7.8	0.90
430'440'A18625.2543.813.15.05440'450'A18633.5053.611.14.50450'460'A18642.0048.712.35.35460'470'A18656.2544.412.34.60470'480'A18669.3547.910.83.70	420	430'	A1861	21.5	36.7		2.55
440' 450' A1863 3.50 53.6 11.1 4.50   450' 460' A1864 2.00 48.7 12.3 5.35   460' 470' A1865 6.25 44.4 12.3 4.60   470' 480' A1866 9.35 47.9 10.8 3.70		440'	A1862	5,25	43.8	13.1	5.05
450'460'A18642.0048.712.35.35460'470'A18656.2544.412.34.60470'480'A18669.3547.910.83.70	· · ·	<b>t</b> 1	A1863	3.50	53.6	11.1	4.50
460'470'A18656.2544.412.34.60470'480'A18669.3547.910.83.70		460'	A1864	2.00	48.7	12.3	5.35
470' 480' A1866 9.55 47.9 10.8 3.70		1.701	A 4865			12,3	4.60
480' 490' A1867 8.35 42.5 12.3 4.50		480' y <sup>110</sup>	A1866				3.70
	•	49.0'	A1867			12.3	4.50
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		DIAMOND	DRILL HOLE	NO. GD3		
			ANALYSIS Per cent			:
Dept		Sample Ma <b>rk</b>	Acid Soluble	Insolubles	Calcium	Magnesium
From	То		Iron Fe		Ca	Mg
490'	500'	A1868/64	13.6	48.9	9:•0	3.05
500'	510'	A1869	8.05	37.4	13.3	5.65
510'	520'	A1870	4.10	40,9	11.4	4.85
520'	530'	A1871	9.55	54.7	8.90	3.40
530'	540'	A1872	13.0	50.3	8.90	2.90
540'	550'	A1873	5.30	42.2	13.3	5.05
550'	560'	A1874	14.7	55.7	6.30	2.14
560'	570'	A1875	13.0	48.8	9.00	3.05
570'	580'	A1876	9.05	50.4	9.50	3.65
580'	590'	A1877	20.9	58.9	3.70	0.80
590'	600'	A1878	21.1	65.4	1.40	0.50
6001	610'	A1879	29.0	55.9	1.05	0.40
610'	620'	Å1880	24.1	63.7	1.00	ND
620'	630'	A1881	16.1	74.1	1.40	ND
630'	640'	A1882	23.3	59.1	3.00	ND
640'	650'	A1883	25.1	56.6	3.10	0.20
650'	660'	A1884	24.2	52.3	4.2	0.50
560 <b>'</b>	670'	A1885	11.1	43.0	11.6	3.35
670 <b>'</b>	680'	A1886	8.40	31.4	14.7	5.15
680'	690'	A1887	8,10	33.5	14.7	4.80
690'	700'	A1888	9,60	39.7	12.3	3.95
700'	710'	A1889	7.80	28.0	15.1	5.80
710'	712'6"	A1890	10.2	30.9	14.9	5.25
	נ	ND indicates	not detecte	ed.		
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		<b>†</b>				
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DIAMOND DRILL HOLE NO. GD4

	ANALYSIS Per cent							
Dep	1	Sample Ma <b>r</b> k	Acid Soluble	Insolubles.	Calcium.	Magnesium		
From	Тс		Iron Fe		Ca	Mg		
01	41	A1920/64	37.6	36.9	0.17	0.08		
4'	9'	A1921	37.7	37.3	0.04	0.03		
91	14'	A1922	27.3	45.3	ND	0.03		
14'	19'	A1923	27.2	42.2	ND	0.05		
19'	241	A1924	26.2	53.8	ND	0.02		
24'	30'	A1717/64	0.91	93.5	ND	0.02		
30'	.40*	A1718	21.5	59.6	ND	0,02		
40'	50'	A1719	18.8	67.2	ND	0.02		
50'	60'	A1720	30.2	51.3	ND	0.02		
60'	70'	A1721	32.8	43.3	ND	0.02		
70'	80'	A1722	34.7	43.9	ND	0.03		
108 <i>(</i>	90 <b>'</b>	A1723	25.4	59.1	ND	0.03		
90'	100'	A1724	20.1	64.7	ND	0.04		
100'	110'	A1725	18.3	71.4	ND	0.01		
110'	120'	A1726	20.2	69.1	ND	0.03		
120'	130'	A1727	12.9	80.3	ND	0.01		
130'	140*	A1728	23.6	61.8	ND	0.03		
140'	150'	A1729	36.4	35.6	ND	0.03		
150'	160'	A1730	36.2	42.1	ND	0.03		
160'	170'	A1731	22.2	64.4	ND	0.03		
170'	180'	A1732	4.7	92,0	ND	0.01		
180'	190'	A1753	20.1	67.1	ND	0.03		
190'	200'	A1734	2.15	96.3	ND	0.01		
200*	210'	A1735	41.5	33.1	ND	0.03		
2101	2201	A1736	32.7	46.3	ND	0.03		
220'	230'	A1737	29.9	50.9	ND	0.01		
230'	240'	A1738	21.3	63.5	ND	0.01		
240'	2501	A1739	39.3	32.5	ND	0.02		
250'	260'	A1740	14.1	65.6	0.24	0.26		
260'	270'	A1741	24.2	54.3	0.22	0.34		
270'	280'	A1742	18.0	55.0	0.17	0.84		
280'	290'	A1743	4.25	81.7	1.75	0.05		
290'	291'	A1744	5.35	89.4	ND	0.05		

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ND indicates not detected.

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DIAMOND	DRILL	HOLE	NO.	GD5

	<u>ANALYSIS</u> Per cent							
Der From	To	Sample Ma <b>rk</b>	Acid Soluble Iron	Insolubles.	Calcium.	Magnesiu		
			Fe		Ca	Mg		
80'	90'	A1745/64	59	82.8	0.01	0.25		
90 <b>'</b>	100"	A1746	15.8	65.0	0.04	0.15		
100'	110'	A1747	16.8	62.3	0.16	0.15		
110	120'	A1748	14.3	66.4	0.20	0.14		
120'	130'	A1749	12.3	70.4	0.01	0.11		
130'	140'	A1750	27.2	55.0	0.18	0.12		
140'	150'	A1751	30.3	50.0	0.30	0.14		
150'	160'	A1752	26.8	56.8	0.22	0.10		
160'	170'	A1753	2.55	89.5	0.22	0.03		
230'	240'	A1754	5.55	81.8	0.13	0.66		
2401	250'	A1755	30.1	38.5	0.65	0.35		
250'	260'	A1756	19.7	56.3	0.45	0.35		
260'	270'	A1757	32.9	27.7	0.85	0.35		
270'	280'	A1758	22.3	42.3	1.90	1.15		
280 <b>'</b>	290'	A1759	35.1	22.1	1.05	0.65		
<b>29</b> 0'	300'	A1760	35.0	20.8	1,20	0.85		
300'	310'	A1761	37.4	19.8	1.45	1.10		
310'	3201	A1762	29.3	41.9	1.20	0.90		
320'	330'	A1763	32.6	30.6	1.65	1.30		
330'	340'	A1764	23.2	33.7	4.75	2.35		
340'	350'	A1765	20.1	51.8	2.75	1.25		
<b>3</b> 50'	360'	A1766	14.3	32.2	11.1	3.95		
360'	370'	A1767	6.90	27.8	15.9	6.8		
370'	380'	A1768	7.95	3.8	18.7	9.2		
380'	390'	A1769	7.55	9.0	17.1	8.8		
390'	400'	A1770	30.8	30.0	1.05	0.45		
400'	410'	A1771	32.0	20.7	2.35	0,35		
410'	420'	A1772	33.0	25.0	0.85	1.15		
420'	430'	A1773	34.9	26.5	0.85	0.70		
430'	440'	A1774	20.7	44.2	1,40	1.00		
440	450'	A1775	6.75	75.4	1.30	0.60		
450'	460'	A1776	18.7	53.9	1.50	0.80		
460'	470'	A1777	27.1	41.0	1.40	0.70		
470'	480'	A1778	14.7	45.5	8.30	2.50		
480'	490'	A1779	15.8	51.4	7.80	2.0		
490'	5,00'	A1780	2.15	71.7	8.0	.1.45		
500'	510'	A1781	7.05	38.0	16.0	3.15		
510'	520'	A1782 -	16.2	56.4	6.05	1.35		
5201	530'	A1783	15.2	60.8	5.70	0.75		

DIAMOND	DRILL	HOLE	NO.	GD5
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			ANALYSIS Per cent			
Dept	h	Sample	Acid	Insolubles.	Çalcium.	Magnesium
From	То	Mark	Soluble Iron Fe		Ca	Mg
530'	540'	A1784/64	22.4	49.7	5.70	1.3
540'	550'	A1785	19.0	60.7	4.1	0.40
550'	560'	A1786	23.2	56.8	3.4	0.4
560'	570'	A1787	18.0	51.2	6.6	1.4
570'	580'	A1788	17.6	51.7	7.1	1.2
580'	590'	A1789	21.1	45.0	7.8	1.4
590'	600'	A1790	24.3	45.6	6.6	1.0
600'	610'	A1791	6.25	75.3	4.9	1.1
610'	620'	A1792	3.75	53.2	11.1	4.4
620'	627'9"	A1793	18.0	39.0	8.2	3.1

DIAMOND DRILL HOLE NO. GD6

********			ANALYSIS Per cent			
Dep <sup>.</sup> From	th To	Sample Ma <b>rk</b>	Acid Soluble Iron	Insolubles.	Calcium.	Magnesium,
201	001		Fe		Ca	<u>Mg</u>
80' 90'	90' 100'	A1906/64	14.3	66.3	0.06	0.11
90* 100 <b>'</b>		A1907	14.7	68.8	ND	0.10
110'	110' 120'	A1908	20.2	58.0	0.02	0.39
120'	130'	A1909	11.2	70.6	0.29	0.34
130'	140'	A1910	13.4	54.5	1.3	<b>3.</b> 15
140'	140 150'	A1911	25.1	53.7	0.52	0.40
140 150'	150	A1912	20.3	63.9	0.52	0.40
156'	150'	A1913	14.1	73.6	1.45	0.35
1601	170'	A1593/64	18.0	56.5	4.55	0.80
170'	180'	A1594	22.6	54.9	3.65	0.80
180'	190'	A1595 A1596	19.9	55.5	5.40	0.60
190 <b>'</b>	200'	-	20.8	56.4	4.30	0.60
200'	200 210'	A1597 A1598	21.1	55.9	4.10	0.60
200	210		23.9	51.5	4.75	0.55
220'	230'	A1599 A1600	23.1	46.9	6.15	1.10
230'	240'	A1601	18.5	38.2	9.95	2.75
240 <sup>1</sup>	240 250'	A1602	21.5	37.4	9.85	2.10
250'	250 260'	A1603	22 <b>.9</b> 30 <b>.</b> 1	42.6	8.65	0.95
250 <b>'</b>	200 270'	A1604		38.3	6.70	0.45
270'	280'	A1605	21.5 26.7	42.3 39.4	7.90 6.50	1.45
280'	290'	A1606	16.5	99.4 44.1	8.65	1.00 2.20
290 <sup>1</sup>	290 300'	A1607	8.2	61.5	6.05	2.20 3.15
300'	310'	A1608	5.4	76.6	2.25	2.05
310'	320'	A1609	12.7	70.0 60.1	5.20	2.20
320'	330'	A1610	1.15	93.0	1.05	0.50
330'	340'	A1611	10.0	81.2	1.20	0.10
340'	350'	A1612	14.0	73.0	2.35	0,30
350'	360'	A1613	17.5	52 <b>.</b> 1	6.80	1.65
360'	370'	A1614	17.0	51.7	7.45	1.75
370'	380'	A1615	9.25	76.2	3.65	0.10
380'	390'	A1616	16.4	58.3	5.80	1.10
390'	392'	A1617	20.2	58.8	3.95	0.70
392'	400'	A1914/64	23.5	58.8	2.25	0.50
400'	4101	A1915	16.5	69.8	2.25	0.20
410'	420'	A1916	19.0	64.8	2.60	0.40
420'	430'	A1917	16.0	63.4	4.60	0.70
430'	440'	A1918	21.5	55.0	4.50	0.85
440'	441'6"	A1919 14.8 67.9 3.80 0.50				
	ND	ND indicates not detected.				
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DIAMOND DRILL HOLE NO. GD7

			ANALYSIS Per cent				
Depth		Sample	Acid	Insolubles.	Calcium.	Magnesium	
From	То	Mark	Soluble Iron Fe		Ca	Mg	
60'	70'	A1794/64	18.0	66.4	ND	0.03	
70'	80'	A1795	27.2	55 <b>.3</b>	ND	0.01	
801	90'	A1796	23.8	61.4	$\mathbf{ND}$	0.01	
90'	100'	A1797	21.2	66.3	ND	0.01	
100'	110'	A1798	36.4	37.7	ND	0.02	
110'	120'	A1799	26.1	57.0	ND	0.01	
120'	130'	A1800	37.5	40.4	ND	0.02	
130'	140'	A1801	36.8	39.9	$\mathbf{ND}$	.0.03	
140'	150'	A1802	21.0	66.4	ND	0.01	
150'	160'	A1803	33.5	34.0	ND	0.25	
160'	170'	A1804	20.7	53.3	0.06	0.60	
170'	180'	A1805	15.2	62.7	0.06	0.50	
1801	190'	A1806	1.28	96.7	ND	0.02	
190'	2001	A1807	7.55	87.1	ND	0.01	
200'	210'	A1808	9.15	84.1	$\mathbb{N}\mathbf{D}$	0.01	
2101	220'	A1809	17.3	70.0	ND	0.03	
2201	230'	A1810	20.6	64.6	ND	0.03	
230'	240'	A1811	5.45	89.6	$\mathbb{N}\mathbf{D}$	0.09	
240'	250'	A1812	23.7	53.8	ND	0.04	
250'	260'	A1813	35.8	40.5	$\mathbf{ND}^{+}$	0.06	
260'	270'	A1814	4.90	81.4	ND	1.55	
. I	D indicate	s not detecte	ed.				

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Approved Directo Passed S o; Exd. Ckd. Tcd. B.S. Drn. ORE ZONE  $\sim$  $\sim$ quartz sand-F Ś Calcareous Clay-Calcarenite GREENPATCH > SECTION 280' Calcareous Clay DEP Calcareous Clay. Ď Gritty Cloy HIGH R ALONG 4 Calcareous Sand-JASPILITE GRID ME GRADE Ζ 6 BGOOE WEST Alluvium Ο BODY STRUCTURE 3 71 :::Sonds Marble - calcitic and LOOKING dolomitic , granular with MINES Varying amounts of disseminated tale -/ --- Clays X LO Marble -6<u>0</u>-Reg. D.M. 0 High grade iron ore Scale Date  $\mathcal{O}$ 5 W.Shoc. 3 6 Section looks 270° (grid brg.) たれ

GREENPATCH JASPILITE STRUCTURE DIAMOND DRILL HOLE NO. GD2.

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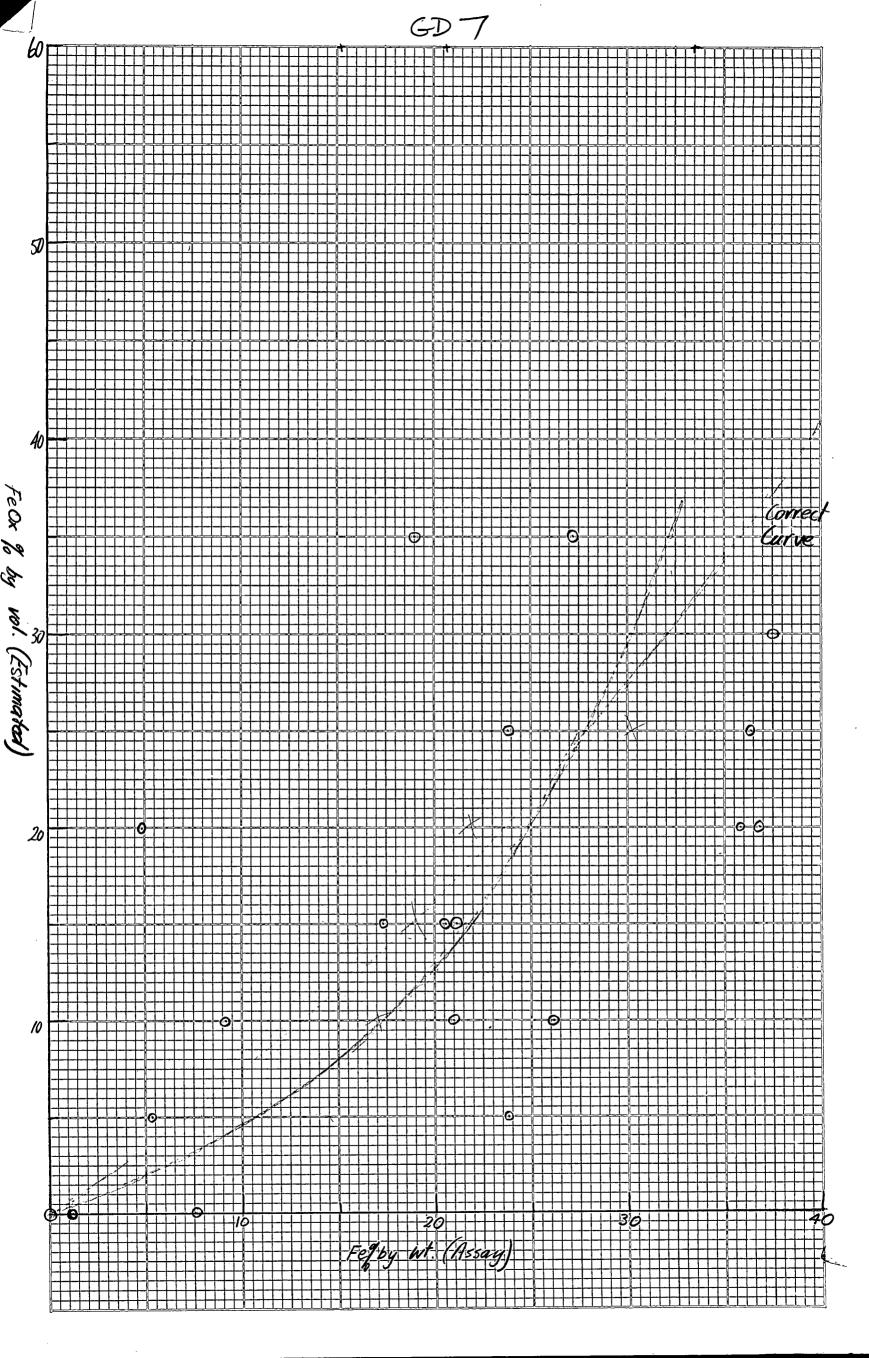
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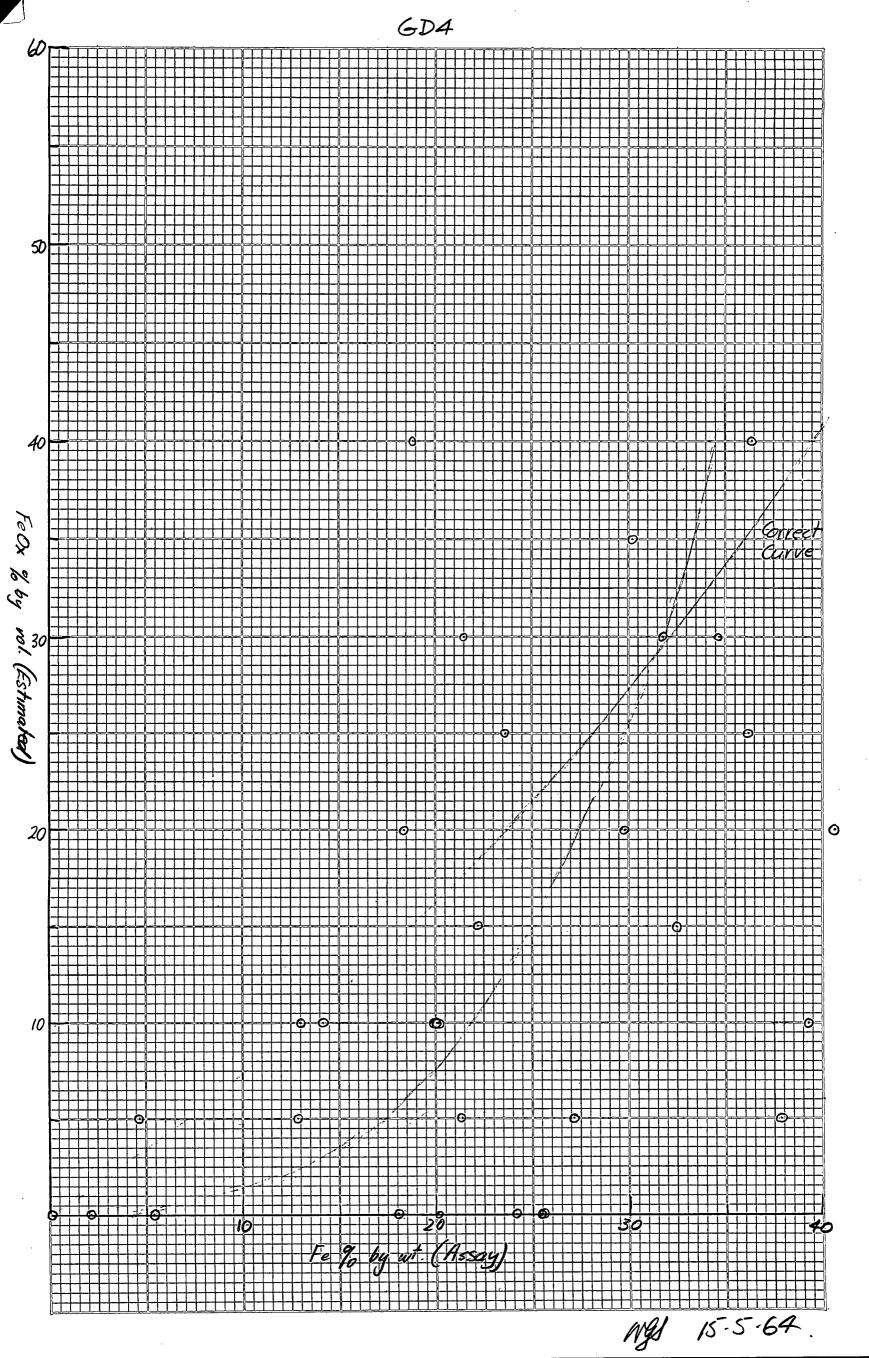
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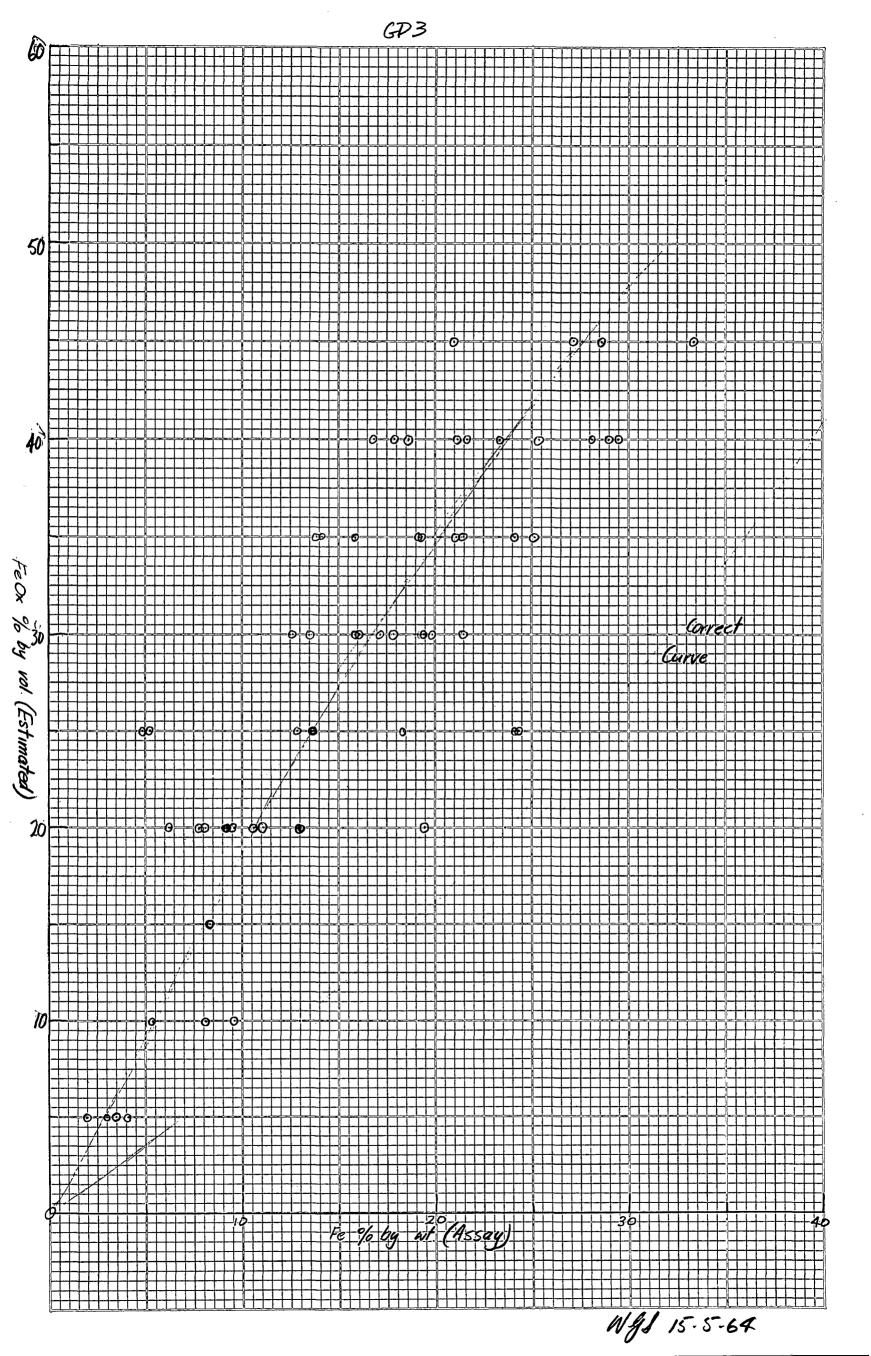
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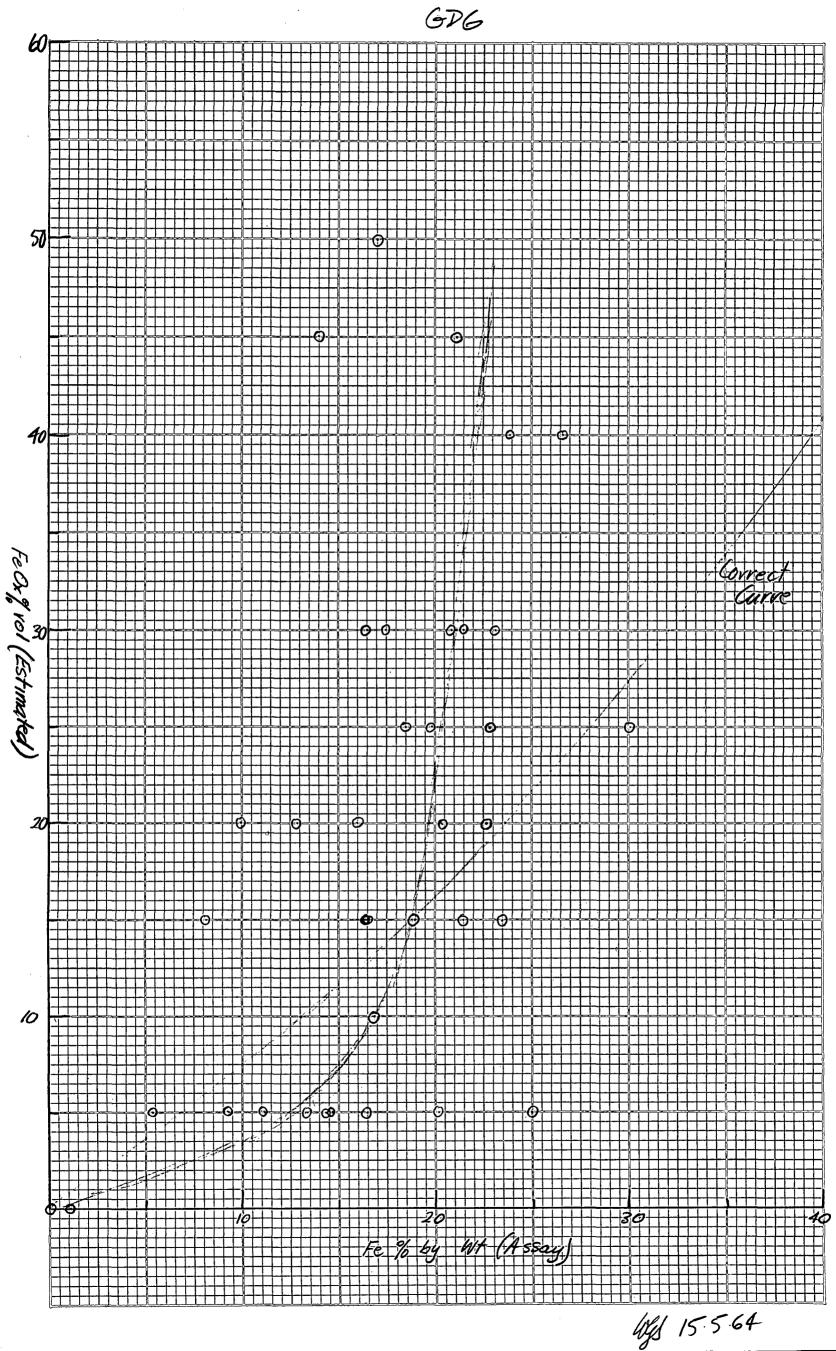
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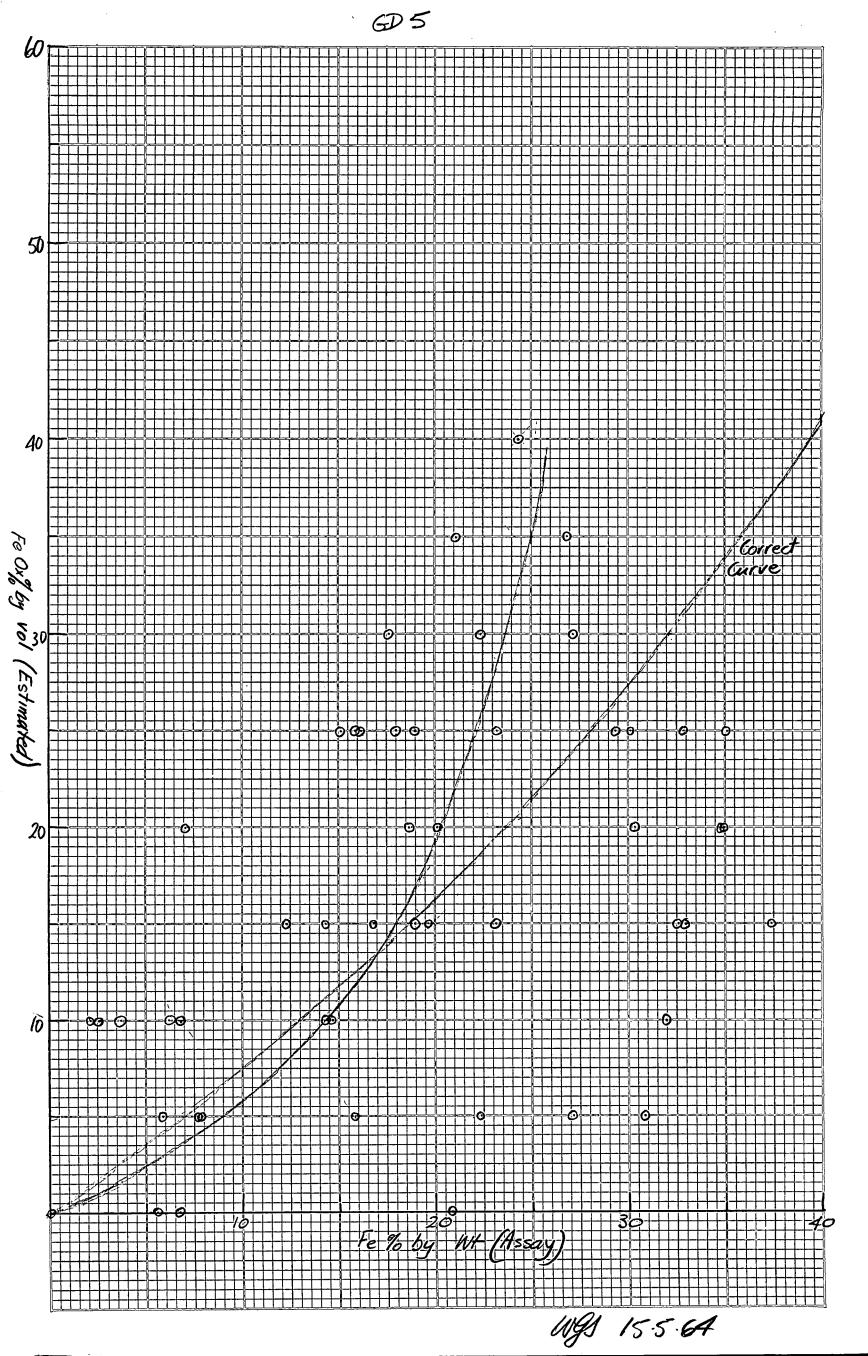
			ANALYSIS Per cent.			
De From	pth To	Sample Ma <b>r</b> k	Acid Soluble I <b>r</b> on	Insolubles.	Calcium.	Magnesiu
			Fe		Ca	· Mg
33'	43'	A1422/64	20.9	65.4	0.03	0.01
43'	53'	A1423	25.2	56.5	ND	0.01
53'	63'	A1424	29.8	50.3	ND	0.01
63'	73'	A1425	24.4	61.0	-0.03	0.01
73'	83'	A1426	29.1	51.8	0.04	0.02
83'	93'	A1427	23.6	62.7	0.05	0.01
93'	103'	A1428	20.6	67.1	0.18	0.03
103'	113'	A1429	22.8	56.8	3.80	0.35
113'	123'	A1430	19.1	58.3	4.95	0.65
123'	133'	A1431	15.8	44.0	9.70	2.25
133'	143'	A1432	10.4	47.6	11.0	2,90
143'	153'	A1433	19.4	41.1	9.05	2.50
153'	163'	A1434	20.4	53.2	5.60	1.20
163'	173'	A1435	21.7	51.6	5.30	1.10
173	183'	A1436	23.7	55.9	3.25	0.65
183'	193'	A1437	24.7	49.2	4.75	1.25
193'	203'	A1438	22.0	38.2	8.95	2.40
2031	213'	A1439	20.2	37.0	9.40	3.20
213'	223	A1440	19.0	37.7	9.70	3.65
223'	233'	A1441	19.6	44.8	8.40	2.10
233'	243'	A1442	25.8	42.6	6.9	1.25
243'	253'	A1443	13.6	41.2	11.3	3.70
253'	263'	A1444	5.0	63.7	8.2	3.25
263'	273'	A1445	5.1	65.0	8.0	2.80
273'	283'	A1446	5.4	62.4	8.5	3.00
283	293'	A1447	2.1	82.7	4.6	1.15
293'	303'	A1448	2.0	70.3	7.6	2.95
303'	313'	A1449	1.6	79.0	5.6	1.75
313 <sup>†</sup>	323'	A1450	7.3	18.1	17.9	7.45
323'	333'	A1451	8.3	63.8	7.35	2.10
333'	343'	A1452	4.2	43.6	13.5	5.20
343'	353'	A1453	7.1	59.9	8.10	2.90
353'	363'	A1454	10.9	43.6	10.7	3.75
363	373'	A1455	9.5	35.8	13.2	5.20
373'	383'	A1456	9.1	55.0 <sup>.</sup>	8.95	3.20
383'	393	A1457	9.3	55.8	8.65	2.60
393'	403'	A1458	13.4	61.6	6.05	1.60
403	413' 423'	A1459 A1460	12.9 9.3	l <sub>4</sub> 5.0 51.6	10.6 10.0	<b>3.</b> 55 3.35
413' 423'	425 430'	A1461	8.65	39.3	11.9	5.10
<b>-</b> -	ND indicates not detected.					<i>"</i>

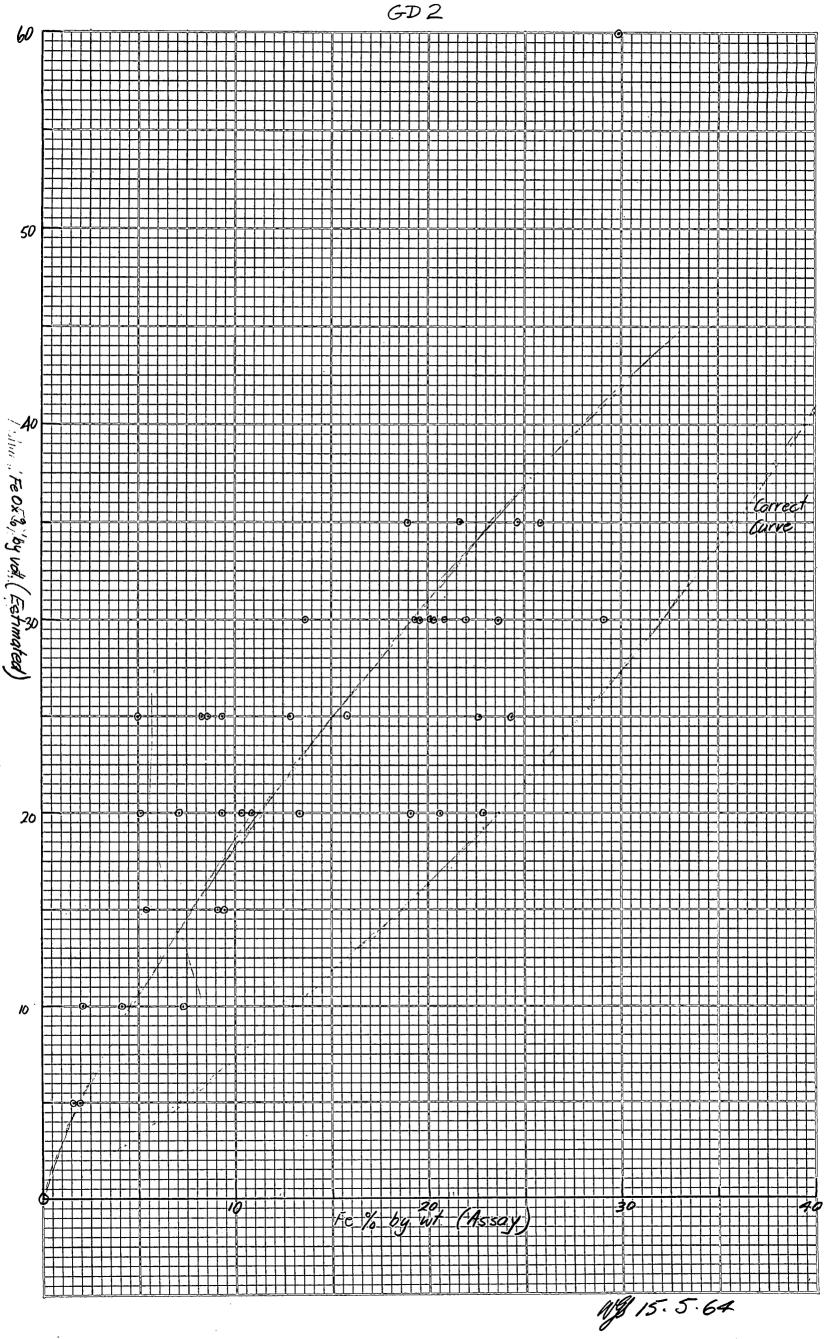


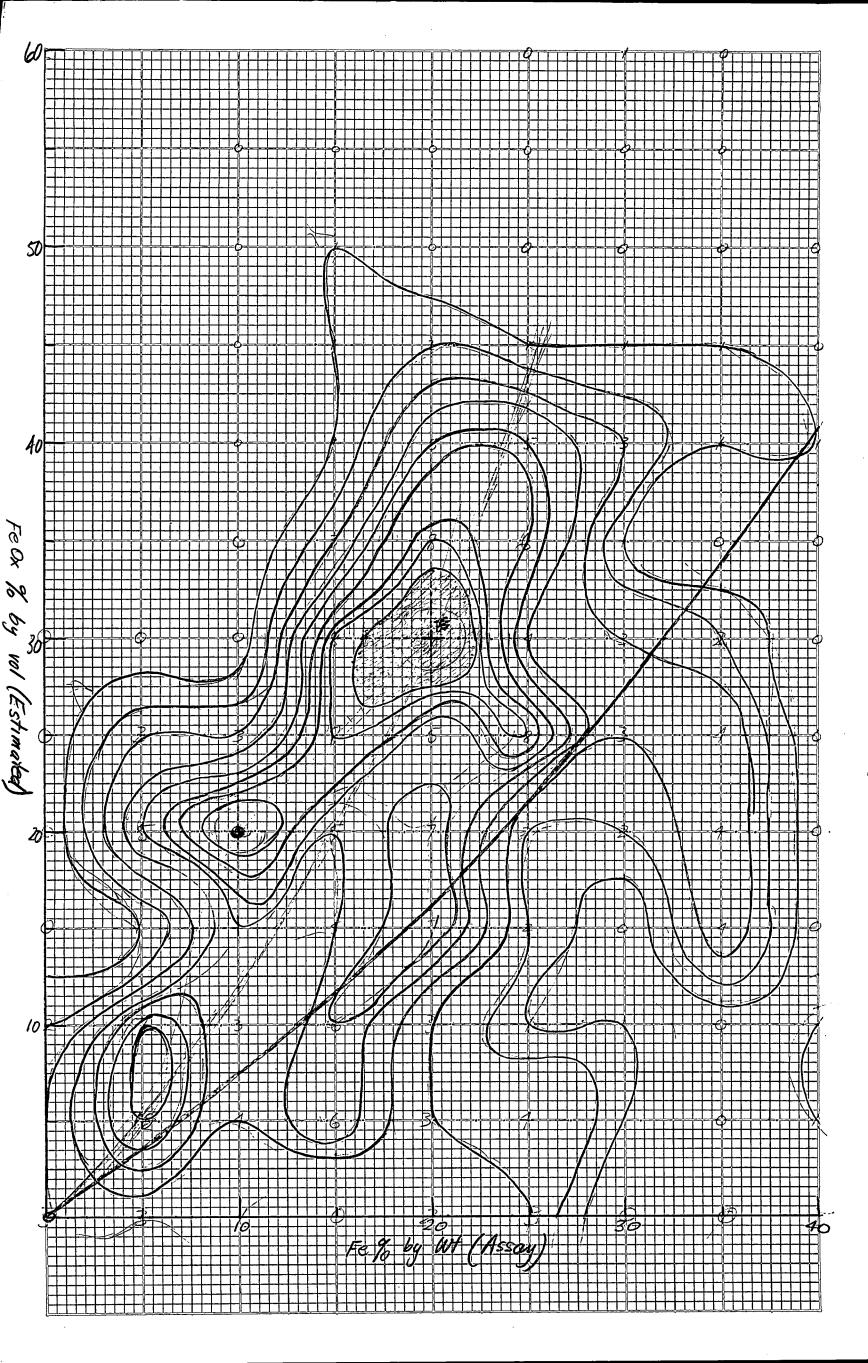


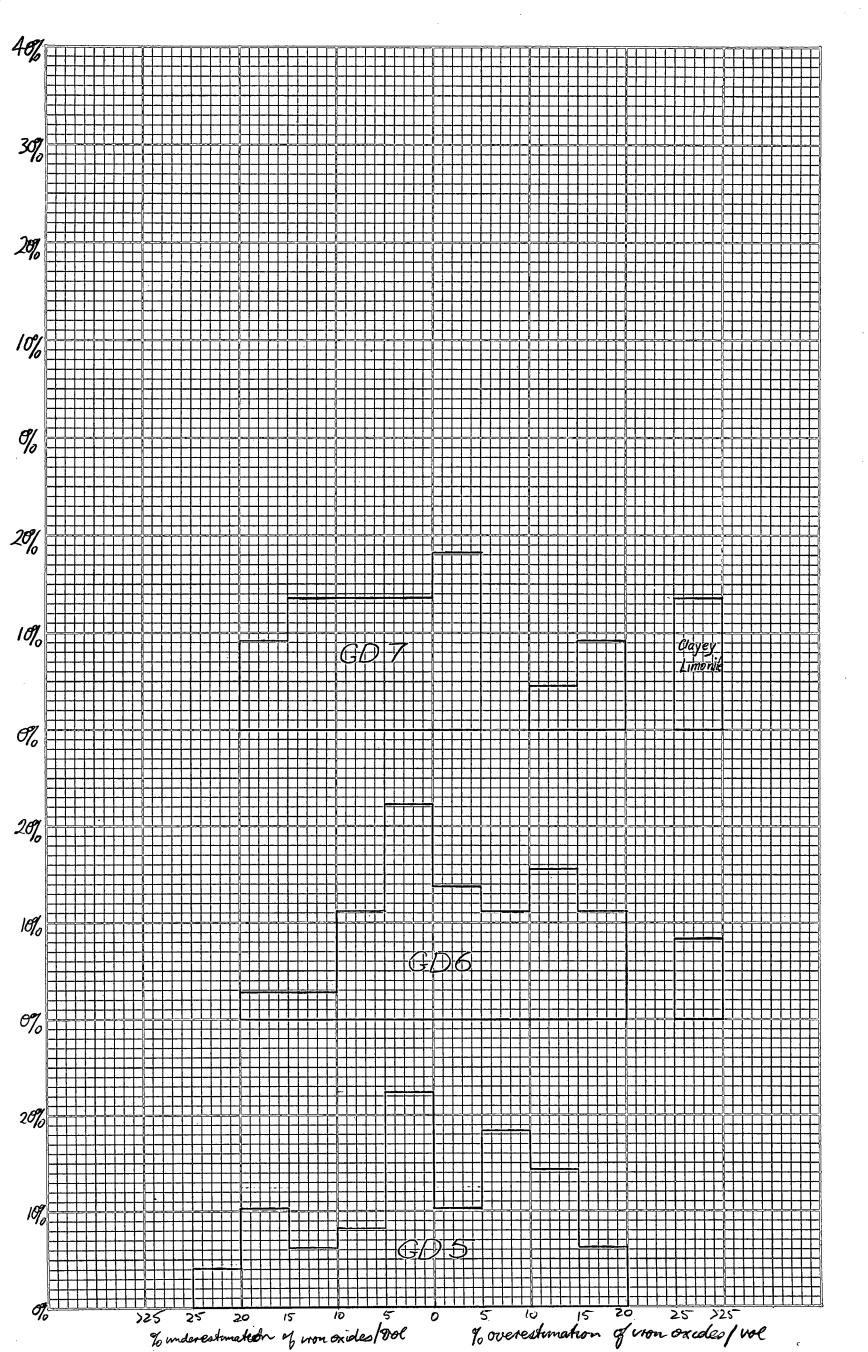


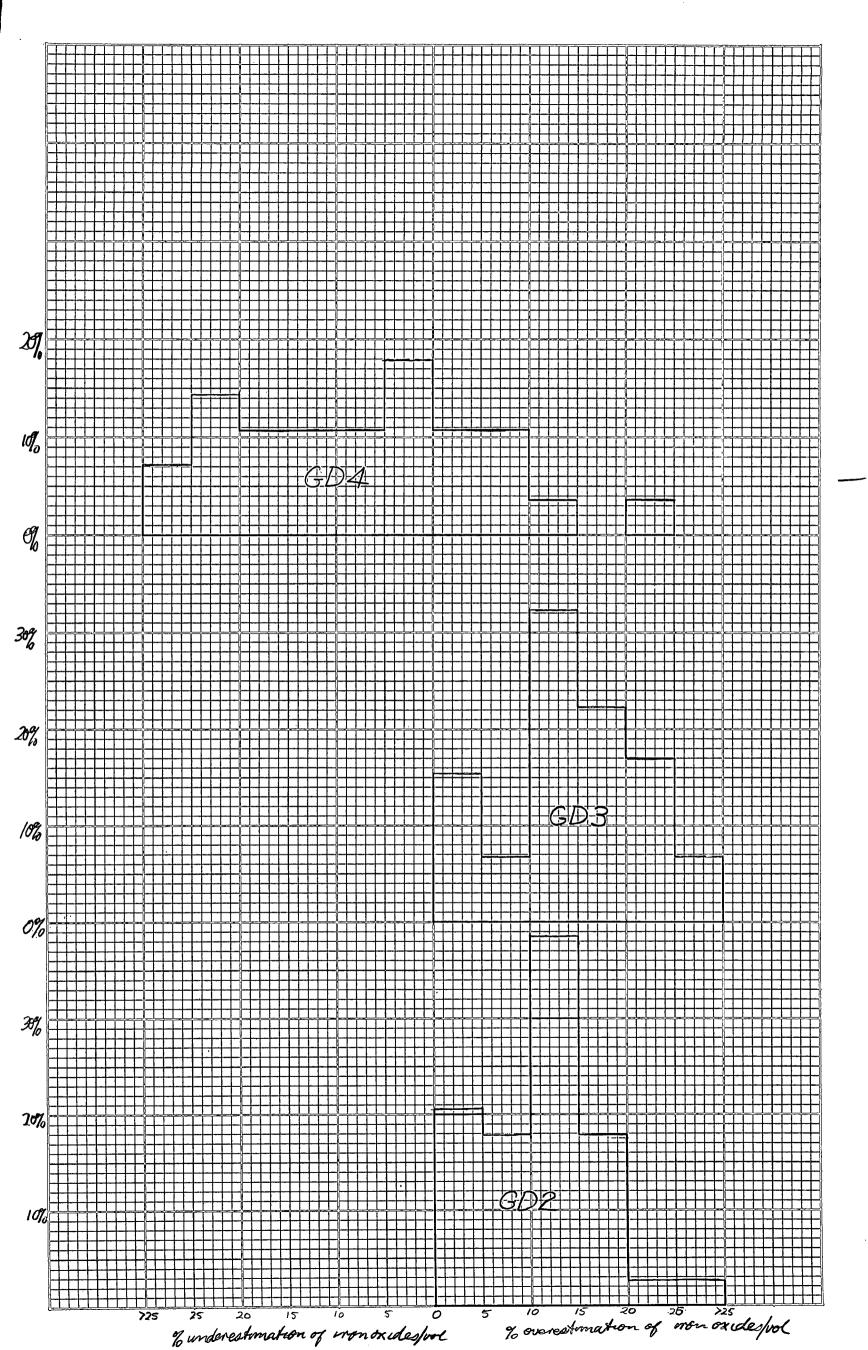


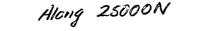


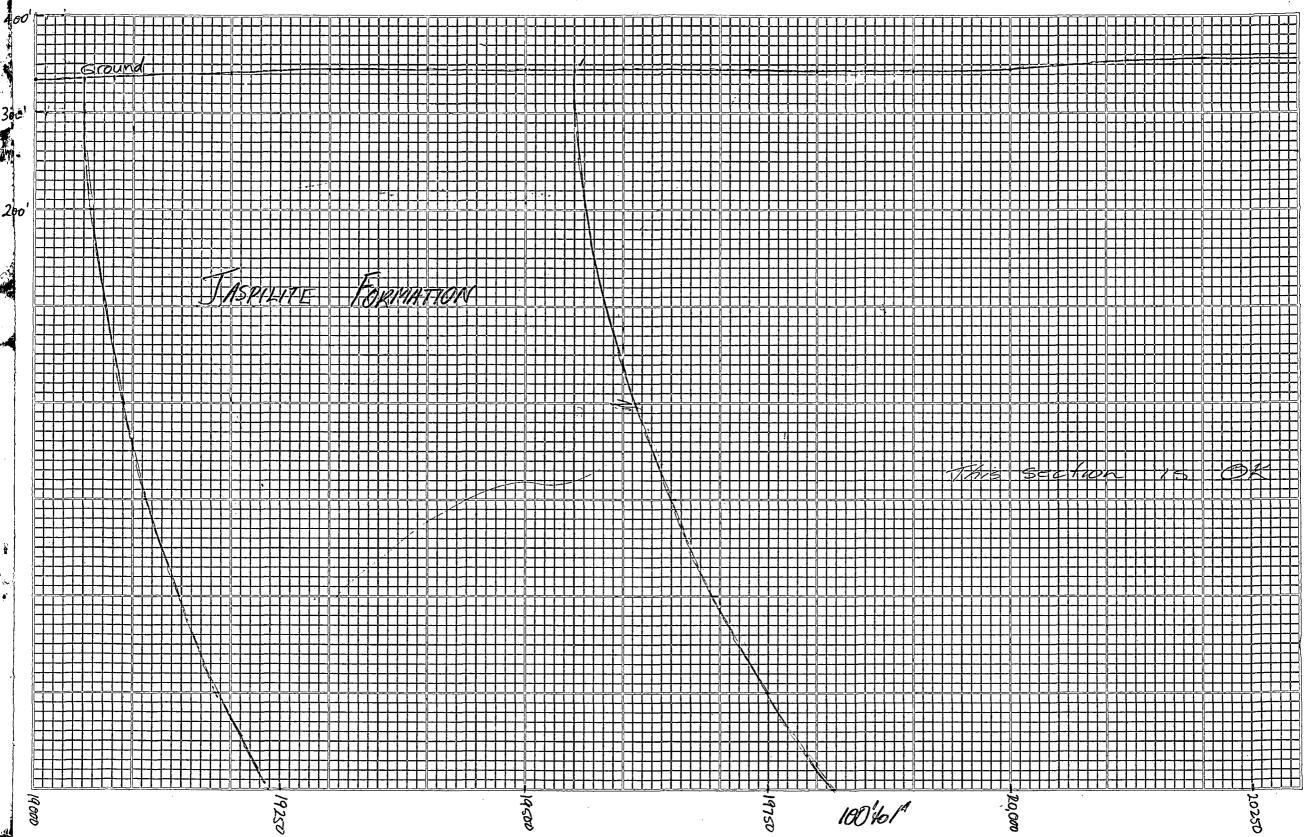




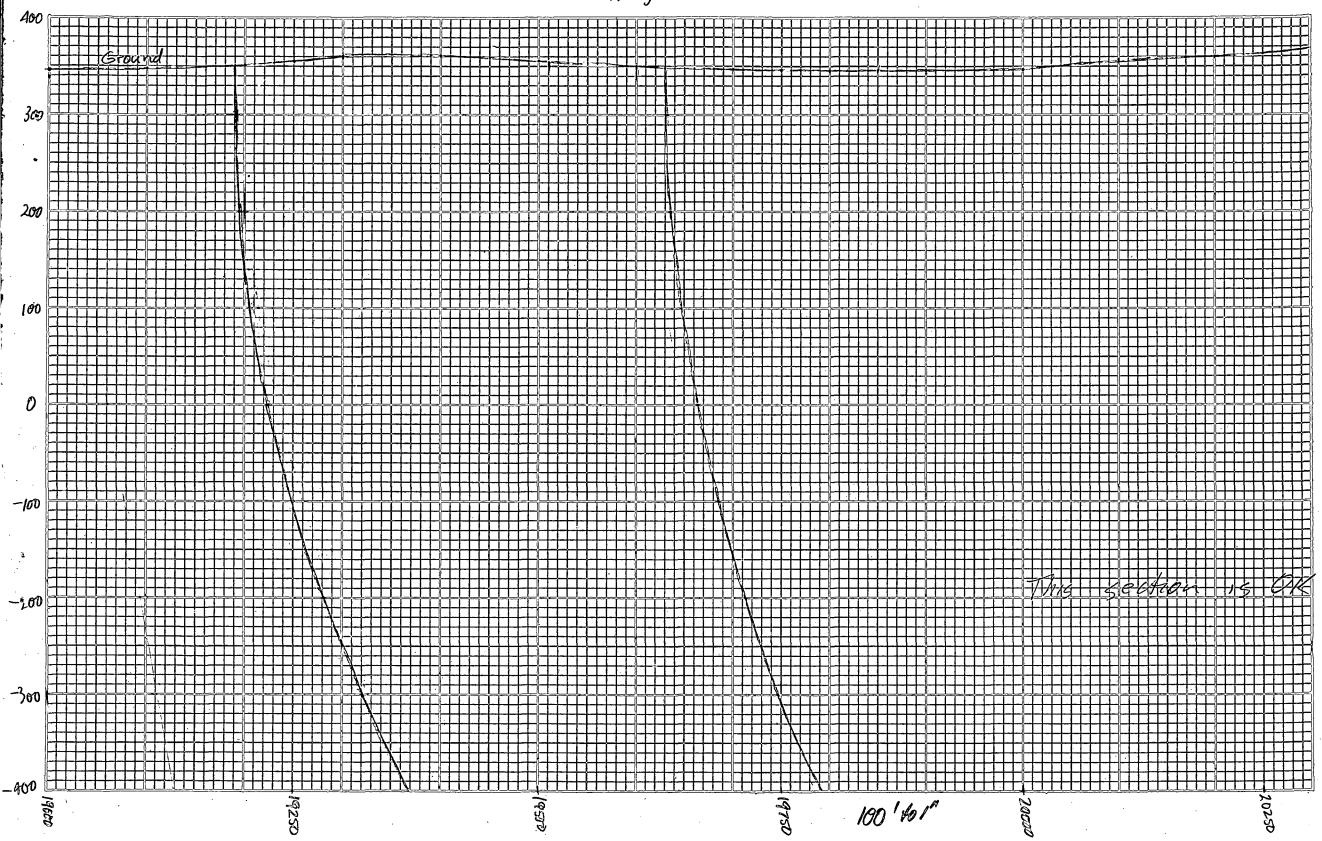




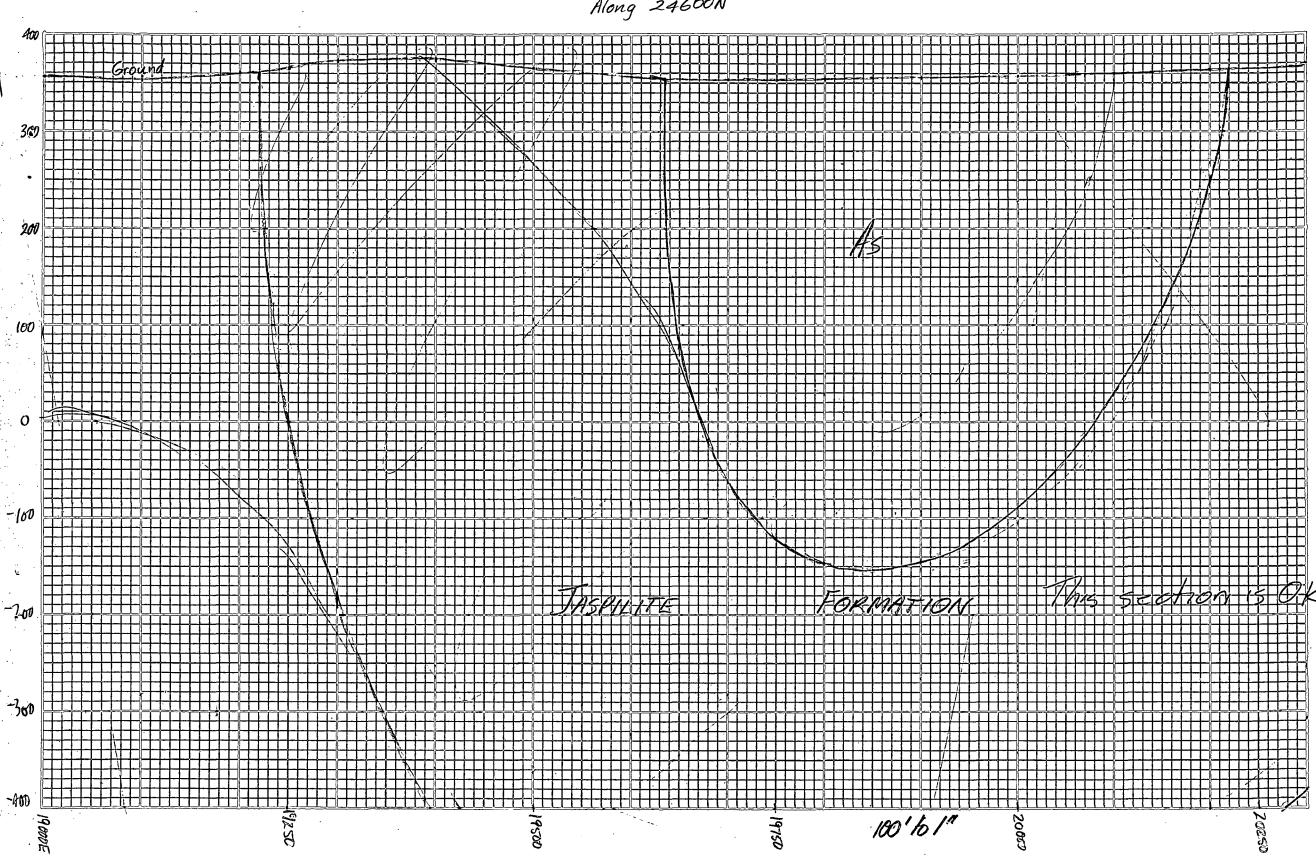




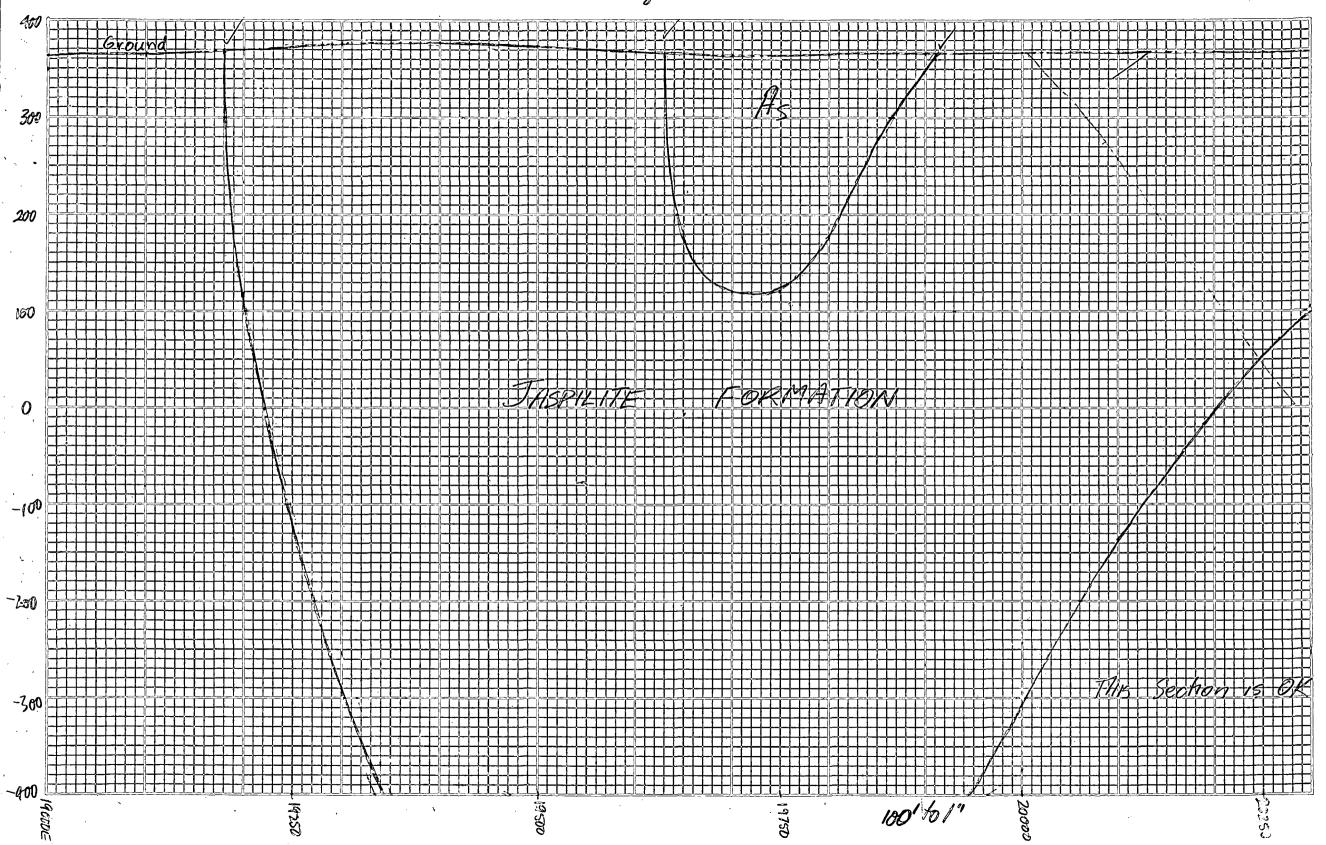
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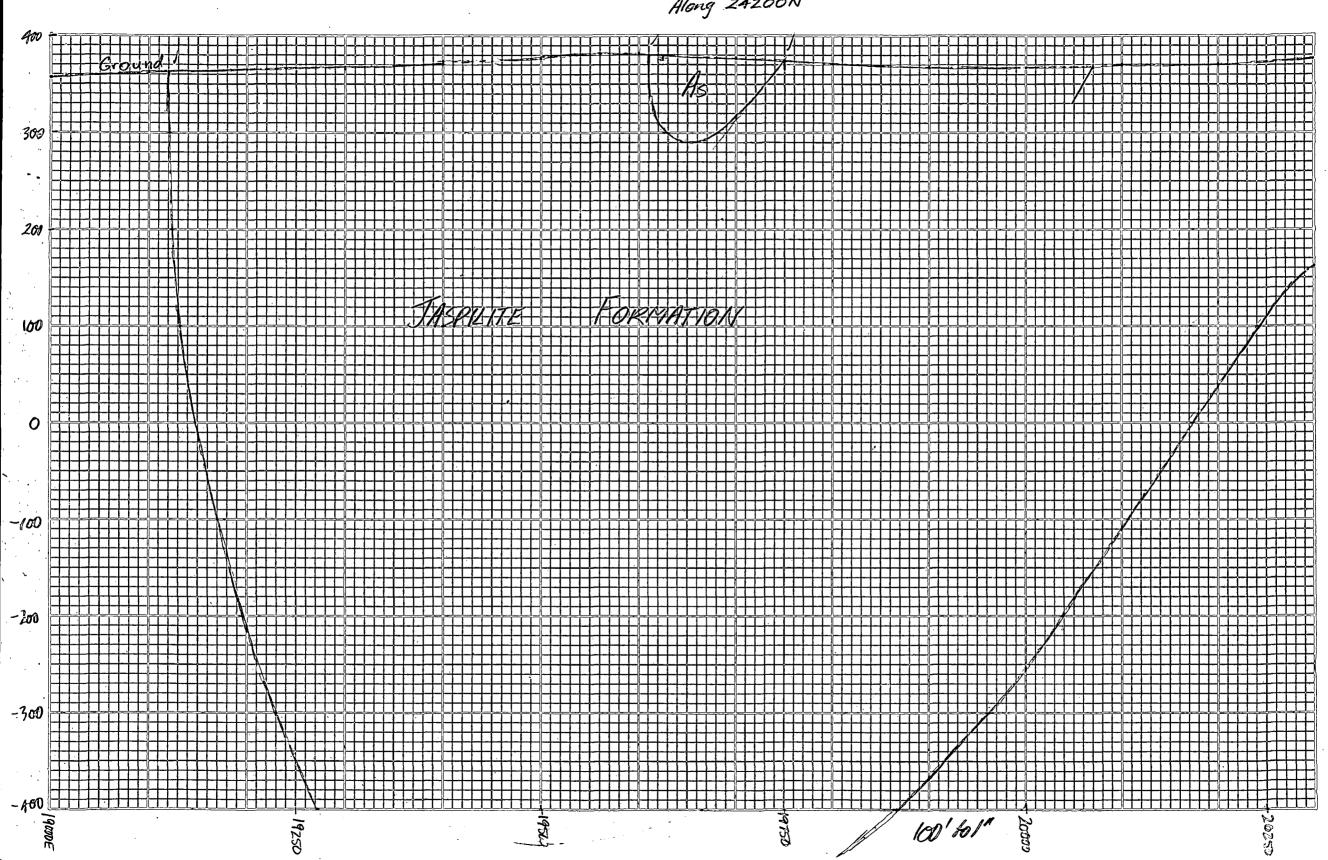
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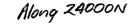


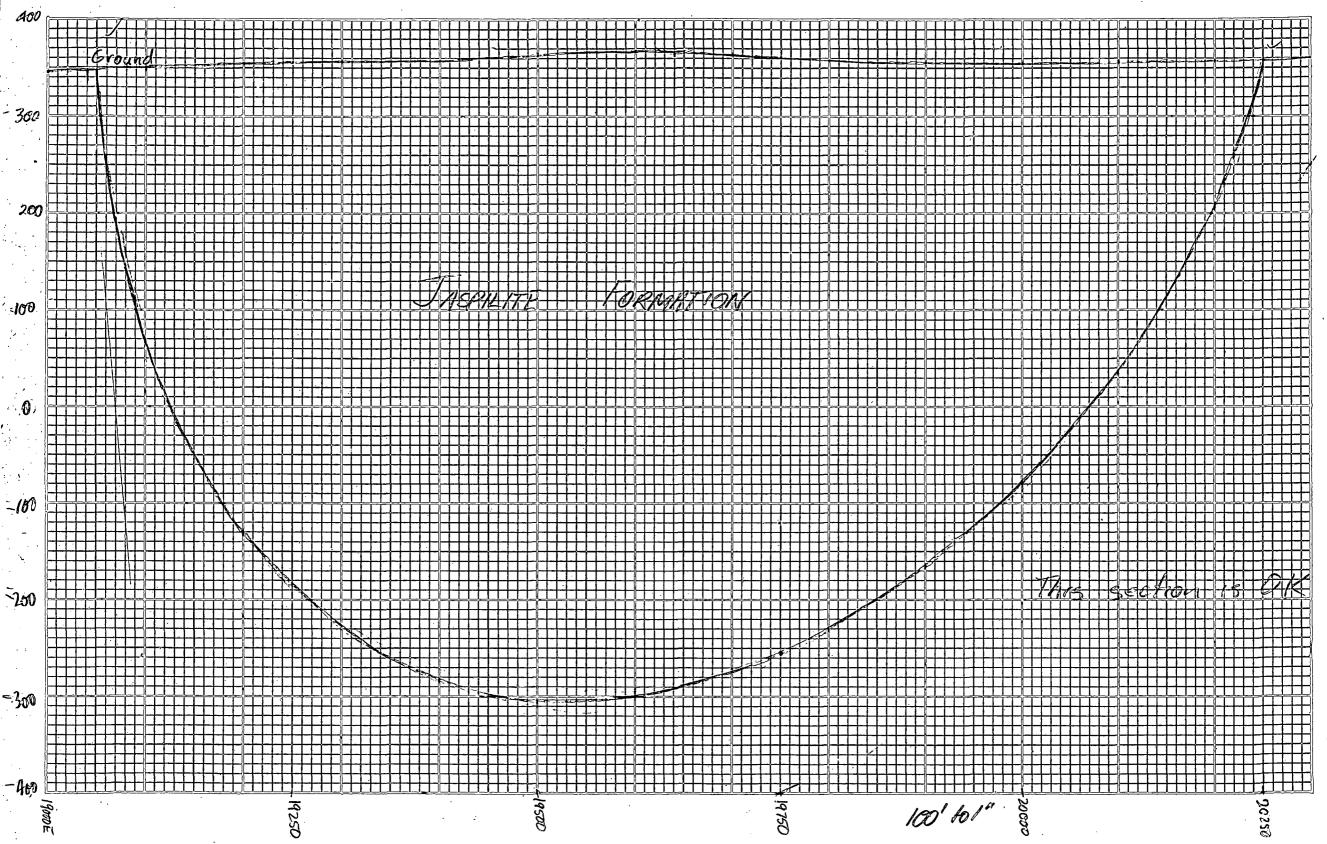
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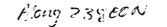


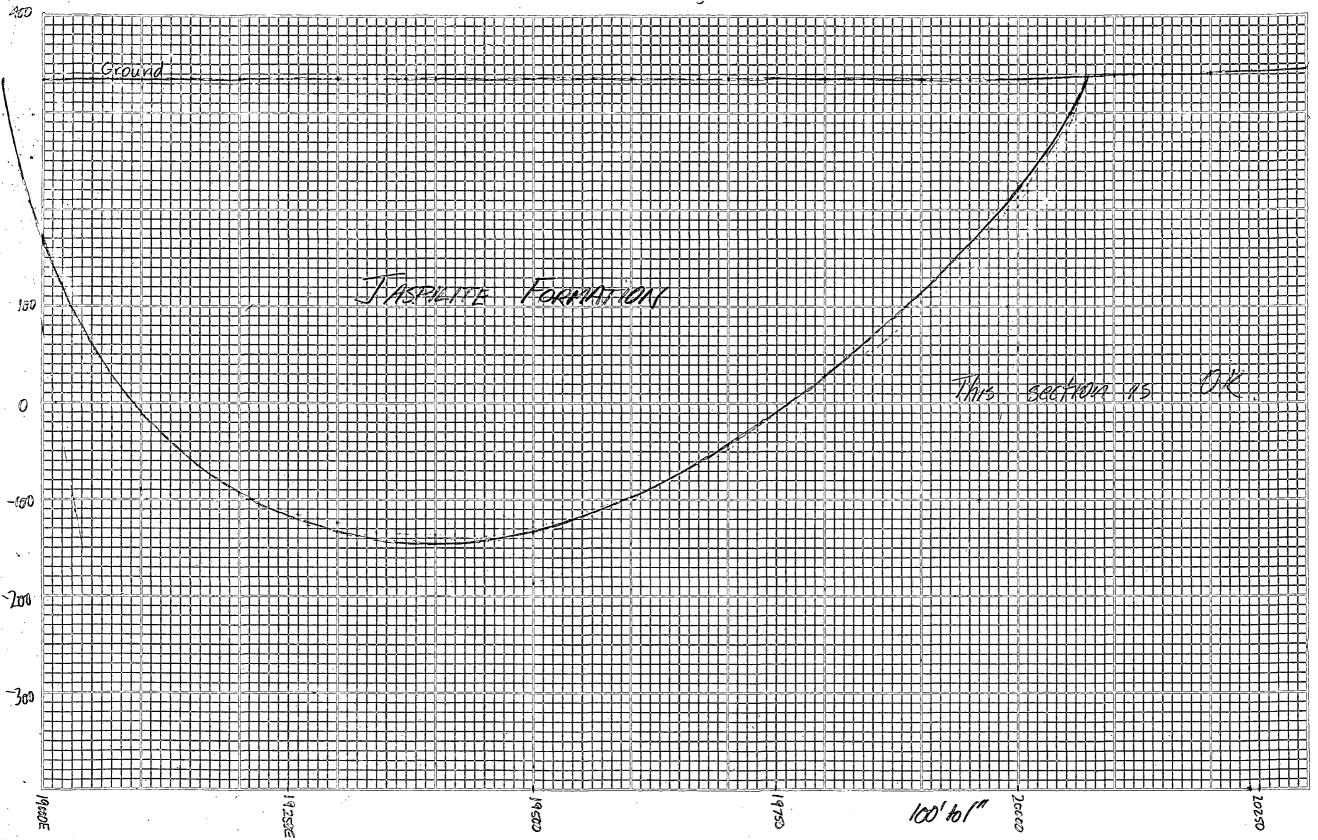
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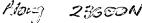


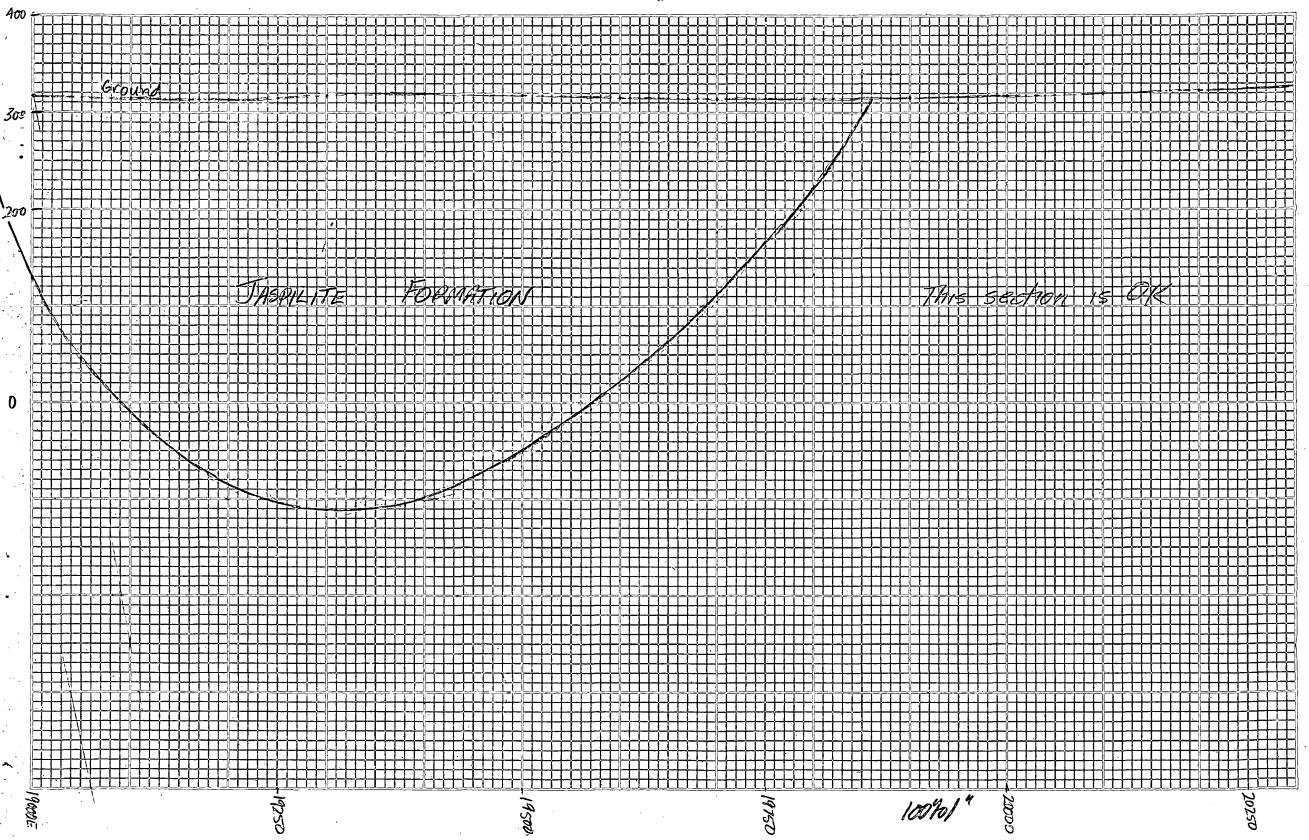


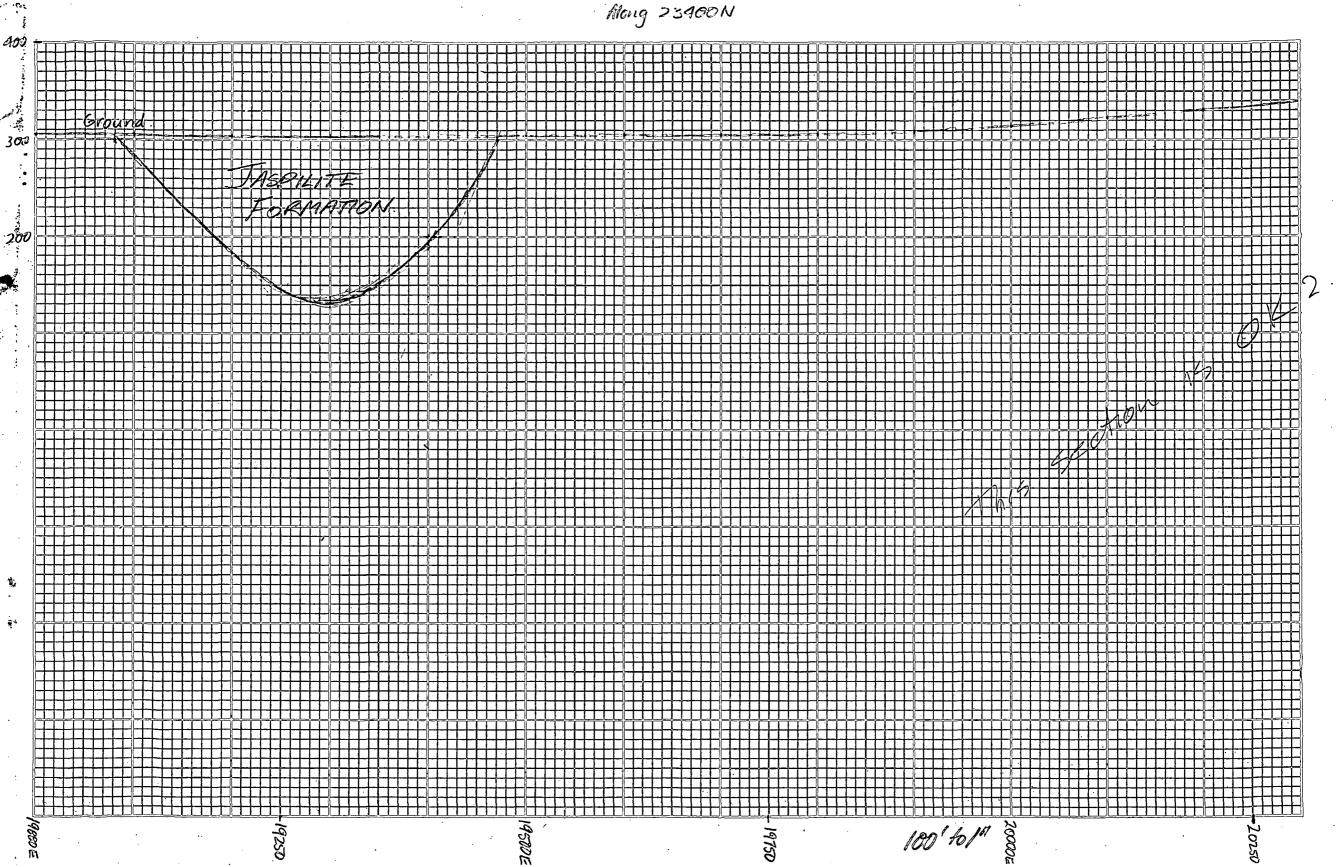


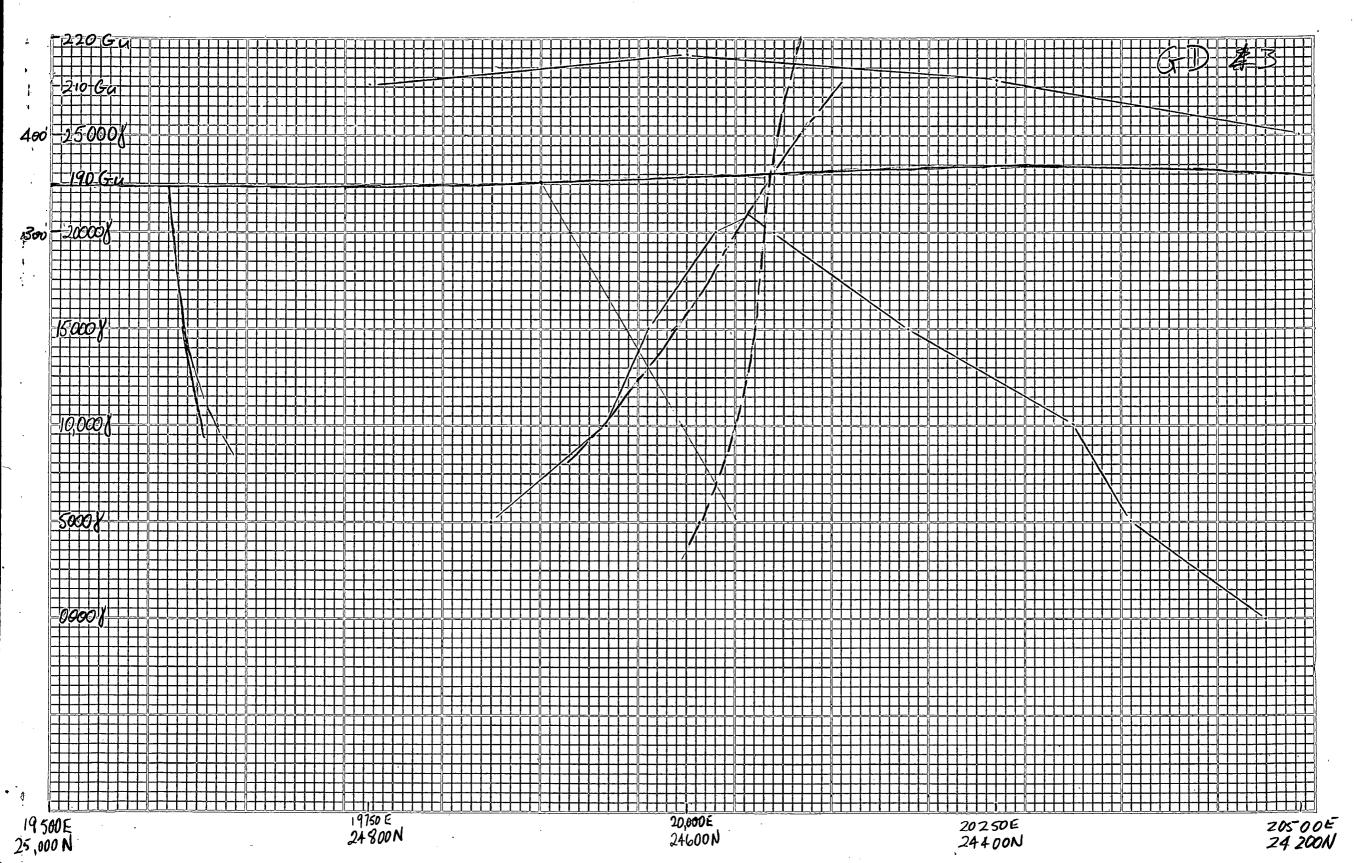












### GREENPATCH JASPILITE STRUCTURE

## DIAMOND DRILL HOLES

## SUNMARY LOGS

Subjectute change as further information is received

GD 1 Co-ordinates 23600N 8600E							
Frem	Te	Description					
0	- 5510*	Sands. clays and calcarenites. White to buff, fine grained (up to $1/16^{\circ}$ diameter). Garbonates associated with all types. Generally only small amounts (<5%) of quarts grains. Quaternary.					
55 <b>*</b> @*	- 251'0"	Marble. Impure, containing warying percen- tages of green ferromagnesian minerals. Occasional masses of quarts are present. Bedding appears to average 60° to 80° to axis of core. Numerous joints aver- aging 45° to axis of core are filled with secondary calcite. Grain size varies from					
•	· · · · · · · · ·	1/16" to 1" diemotor. Graphite coats a joint at 226'7". Archacan.					
		END OF BORE.					
		HD 2 Co-ordinates 25500N 17000B					
From	To	Description					
0	21 '0"	Clay. Yellev, pink, dark brewn, gritty containing an increasing number of frag- ments of white quartzite with depth.					
21'0" -	3312"	<u>Quartzite</u> . White, fine grained, brecciated in places and healed by quartz grains and red-brown iron exides. Some small white clay bands.					
33'2" -	59*9"	<u>Iron formation</u> Brecciated and healed bedded magnetite-martite/quarts-carbonate rock, Heavily weathered. Averabes 35-40%. Mag- netite-martite.					
5919" -	103'0"	<u>Iron formation</u> . Brecciated bedded magnetite martite/quarts - carbonate rock. Heavily weathered. Averages 30% magnetite-martite. 103'0" marks bettom of severe exidation.					
103'0"-	246 10"	<u>Iren Fermation</u> . Magnetite-martite/carbon- ate/green FeNg mineral rock. Generally well bedded centaining rare quarts and averag- ing 40-50% magnetite-martite.					
246'10"	- 276'6"	Magnetite-Carbonate rook. Generally feature- less coarse grained and containing only 20% magnetite. Contains 20% of both quarts and green Feldg mineral.					

## GREENPATCH JASPILITE STRUCTURE

DIAMOND DRILL HOLES

(	Contd	•
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·		<b>)</b>	(Contd.) GD R			
From		<b>To</b>	Description			
276'6" - 393'8"		393+8"	<u>Harble</u> . Magnetite, green Fe Ng mineral carbonate rock, containing 20% magnetite poorly bedded.			
393'8"		430 '0"	Marble. As above but fine grained and well bedded containing 35% magnetite.			
-	•••		END OF BORE			
			GD 3 00-prdimetes 24690% 19890E			
Frem		To	Description			
0'	-	94 10"	Sand . Fine grained, sub-rounded, well sorted, quarts. White to pink. Occurren- ces of laterites and sedimentary mangam-			
			lferens ers.			
94 °0"	· 🐽	109 * 6*	<u>vell bedded.</u>			
109'6"	-	147'3"	Magnetite / martite - carbonate-green FeMg mineral rock. Generally poorly bedded. Contains 15-30% magnetite-martite.			
147'3*	-	243*0*	Magnetite/martite-carbonate-green Folig mineral rock.Similar to above but com- taining 30-45% magnetite/martite. Nartite commen at 220' indicating bettom of exidised some.			
243'0"	•	279*5*	Magnetite-parbonate rock with praces of green FeNg mimeral. Generally peerly bedded containing 35% magnetite.			
279 5*	•••	38316"	Magnetite-warbonate rock. Vell bedded, containing 355 magnetite. Silica cocurs in fine grained beds.			
38316*	**	40512*	Marble. Searsely crystalline white, gra- ding down to grey white and green banded calc. silicate rock.			
405*2*		431 16"	Magnetite rich zone. Containing 40% mag-			
431.16"	-	501 '	Narble.			
501 '0"	-	511'6*+	Iron Formation - in progress			
			· · ·			

-3-

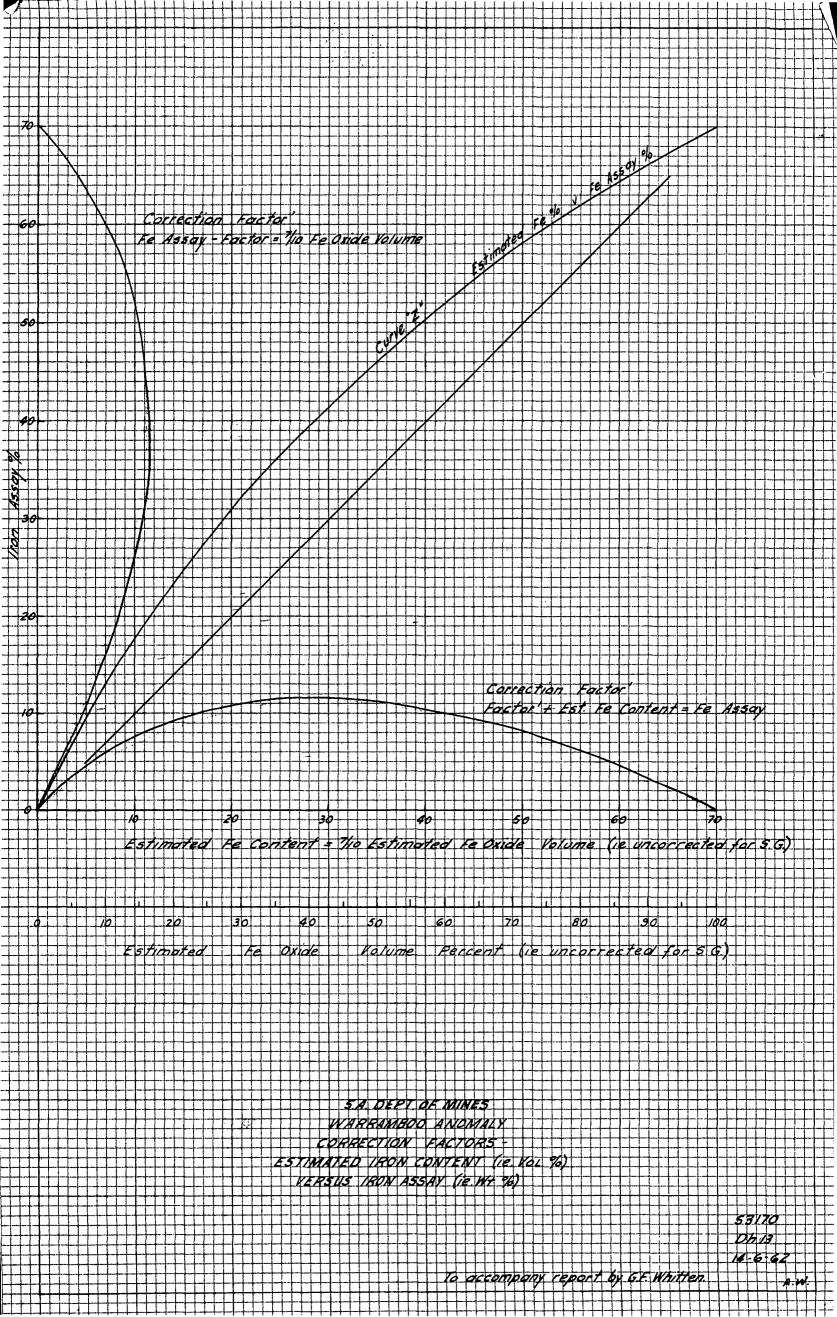
GREENPATUH JASPILITE STRUCTURE

## DIANOND PRILL HOLES

# (contd.)

# GB 4 Co-erdinates 23620N 20960E

Prom	To	Description			
0	27'0*	Sands. gravels. elays.			
27'0"	34'10"	<u>Quartaite</u> - thim bads with sands, gravels and clays.			
34*10*	4312"	Jaspilite- magnetite/martite - silica. Highly weathered. Interbedded with rare thin quartaite beds. Averages 20% iron exides.			
	259'3"	Jaspilite with immer quartaite inter- bedded. Averages 30% iron oxides.			
25913* //	289*+	Poor core recovery - <u>Cuartuite</u> with clay bends, disseminated pyrite and chlorite. Graphite at 220'. In progress.			
**************************************		QD 6 Co-ordinates 22510N 21080			
From	Tø	Description			
0	84*0*	Clay. White to buff, containing small amounts (<10%) of iron exides (mainly magnetite).			
8410"	160'0"?	Schist - brown, highly weathered.			
160 '0"	7	Calc.silicate magnetite rook.			
	29510*	Silica magnetite rook averaging 45% Mag- netite.			
29510"	313'0*	Amphibelite.			
313'0"	316'8"	Iron Fermation - well bedded.			
316'8*	345'3"	<u>Cuartuite</u> white to pink with < 10% disseminated megnetite.			
34513#		Nametite-carbonate-chlorite rock. In progress.			
	я,в.	1. Mineral percentages quoted are field estimates only and will be modified when assays are available.			
		3. Measurements of 5G and susceptibility are in progress.			



Sun 15.12.63 12.30/ Chone carel from Sycarey GD2 - 0-21 clay etc 21-33 Guanfite 33-103 Drudyed forstalite 103 - 247 Jashilite that is a lite 247 - 430 Manhle with Fe Ox 6.0.3 50' GD.4 Rig plant from G D2 6.05 906 TAB Sam Basses - Chiffyel anfuel. Abopen to get annors hefre X'mas. Torsends cing for - Canton - Pres y Patrio comy ever with an Ey - went to Converse on Man : - Gring over & gif all. Man p Hol - Row Mater al Ture. Det Ore - Row Mart Deft. Miyaga.wa

 $\mathcal{C}$ Dalhunty - other Tructo - minter TAB. Brunning - accel : Purth Brill Pile - Recen to know has things are quin a traine Farry Jamet Cary & no mitiand co - Itok - W+4 & hut to Patino, august, Kaharapa. Del be lere on 52 for for archila. Werkly Report. Kopi Befort -----The of love. GD2 0

Greenfratch 305' still in Twog Carl Bort. арз Inveased grace - nos 40 to May = 2620 Fe. at 220' montite unt out. Veryweathered jarfulite. GDA pom 75' + 0 15 3' act bands fjæsfulite & ortre our recyptullised quarty ite, - Cq. And weathered metaseot. he jackilit as yet. GD6 12 G. Shundaleta 6th Jan 1964 - Celtic Monarch Sam Aracen - aring - hers years have - Egft - oil

Cyre Peru TAB 18 12 by Greenputch Middle fan. + for Leare allew month afermans. Delliver? irohlio\_ Reserve area Till How. The ADO scale mapping us me as practicable Then userve free, no Grophysis del rescuero Kym Her This well arounts to. Coy want till Greenfucher deniced Ono wellow recharge havis

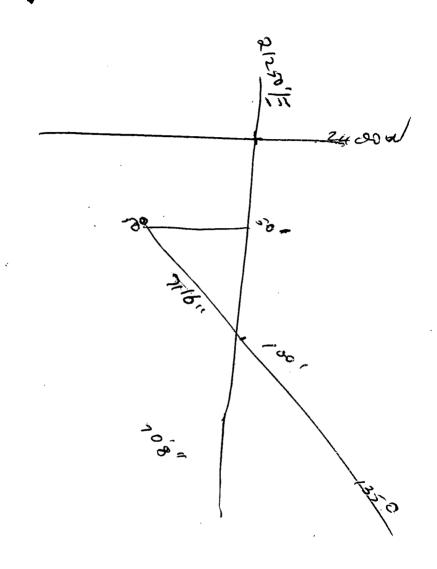
Hole co-ordinates 21200E ~ 23950N ~ Depression Angle 40°-50° ~ Direction Grid 135° -500'7 Length Use peg 23900N on line 21250E as a foresight.

(Hegrid W) at 23950N on line 21250E and measure 50' Good Walong this line. This is then the people wallar of the hole. collar of the hole.

-

There is a his 21250 E rar lag at 24000 v

Phane 63,621 160



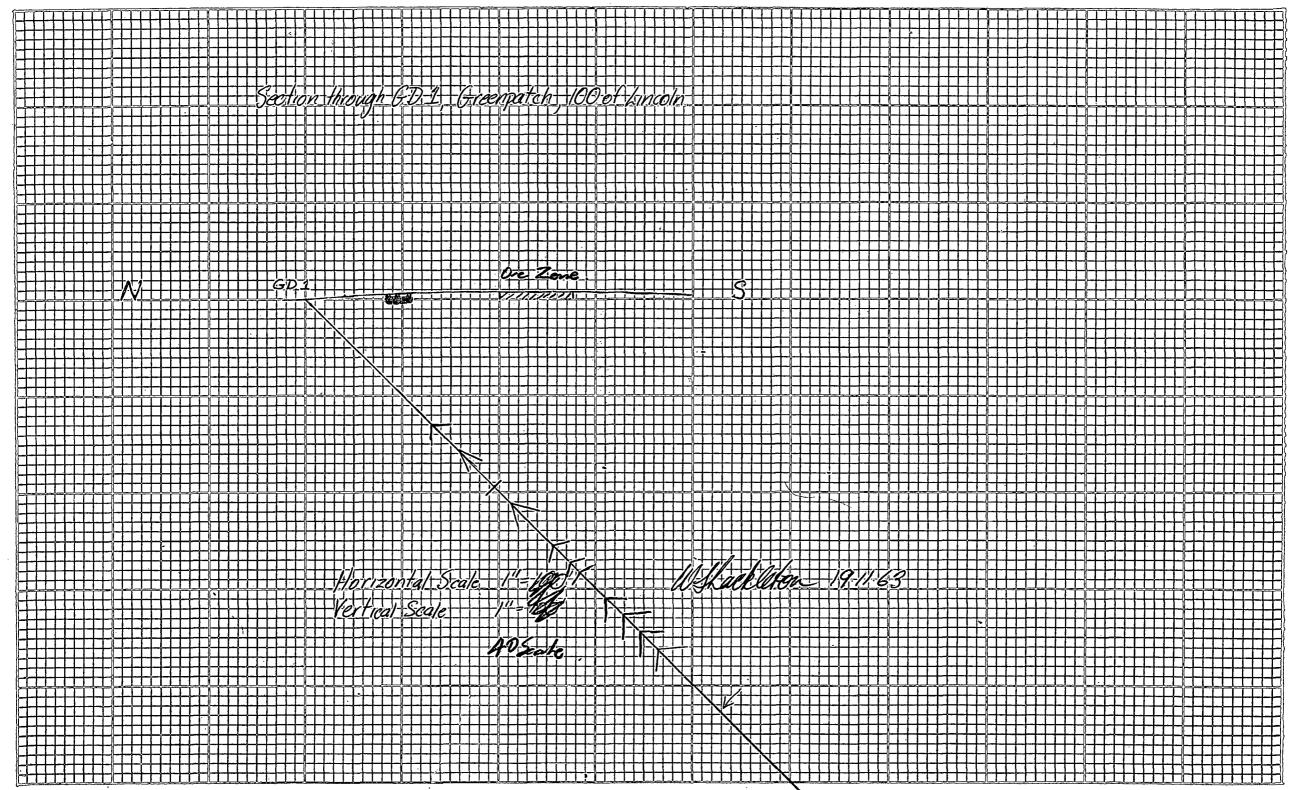
no wallace 21.1.64 1.50 fm Biel Cike Mase gon have field estimate. Biel Pike Restrict & GD 2 . 3. GDA - tro suidiged 406 <u>Gred Dallare</u> <u>Conta me horrow 5 avage River Prespectus.</u> Barabla Reports - 2-3. 18-20 martin Place <u>2. 5. W.</u>

Groff. Ollivier. 1.15/m 20.1.64 GD3 Back in 1.F at 501'6" fr 10" Slundge & 511'6" is black is 1.F. GDb Back in I.F. - Mag Carle Green Min Rock. at 345' 3" : GD3+6 & go 50' hard inter. GD4 20 Success - at 289' Go an A.M. - Shat Runs - at least 50' 5-350 Getty estra lanes - 6" myget 2' note from RKJ « enlarger plastos. Letter for Dong Jamis. Asker & works at Tale Show at Tumby loning barts Friday moring Nave latest and logo as of them night.

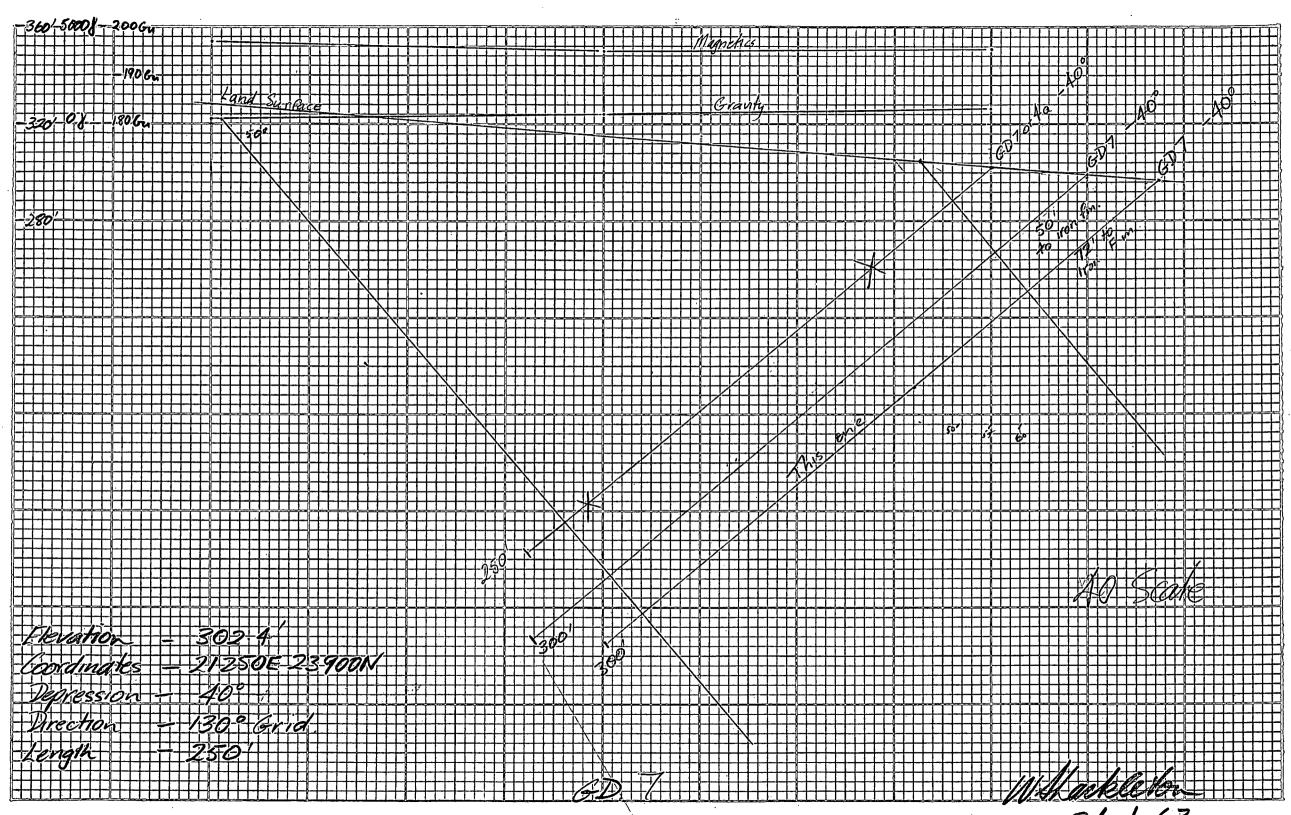
Chane Call G.I. In mollin 7an 20.1.64/ hu wallar rang: Report & Sat night - Stan fine Down & Agi' Sat night I marble about 30' To 460-470 was in Bandled Sien Fourtien, Has reactived magnetite ug tult - · less than 10% - geen mineral - publi tale. hart lit at 288' - 289' a D4\_\_\_\_ the I.F. at 200 Sie of its ilrands is weathers a garfielite. at 260 - Auch graphite q" for 5' of anilling . none day with fraite chlorite. In last un is grey calcaneous quite or gegweeke with pipite - 6 fragments for 5' another hole? In Bances view wich tale vilicate (340'?) GD6 Calata magnetite - Silica Magnetite Asige 40% magnetite Rule & while file - eg - 2 mm Course May. Z 10% 50' part ore. Will want & top early this needs. thing at lunch time: Lengths of Millioles

GD2 see notchook 6D3 0-94' mana (J.g. quarty) at 94-109 Grantyite 10g-147' magnetite mantite Maille 230% Folk 147'-470' may - " " 30-40% FeOx maatile cases at 2207s 200" 470-50' marble 501 - 511'6" Iron Farmation Grade ? G D4 0- 35' Sana - Grand, Jacutyet 35 - 43 Jey reathere a martile magnetite-Carlomate rock with this 43 - 260 De Jaspilite with lesser quantite Leds interhedder 30 20 Fa Ox 260 + Chrlenti; Clay, Juantzite, some graphite 289' + clay with pt 1920 magnetite. C. D.6 0-84 84 - 162? Brown the Weatheren Schist 160-200' Cali silicate magnetite sorte menaging 45% Mag 300 White Quartito. 210 & May. 345'3" Mag Carl. chlorite Lork. Deussier. Trill an in 1.F + 50' at beard 560' GD3 GD4 change to AM. Go to 350' GD6 as GD3. at least 450' GDA a stare ready by Thursday Buna, Koppins + Tancola,

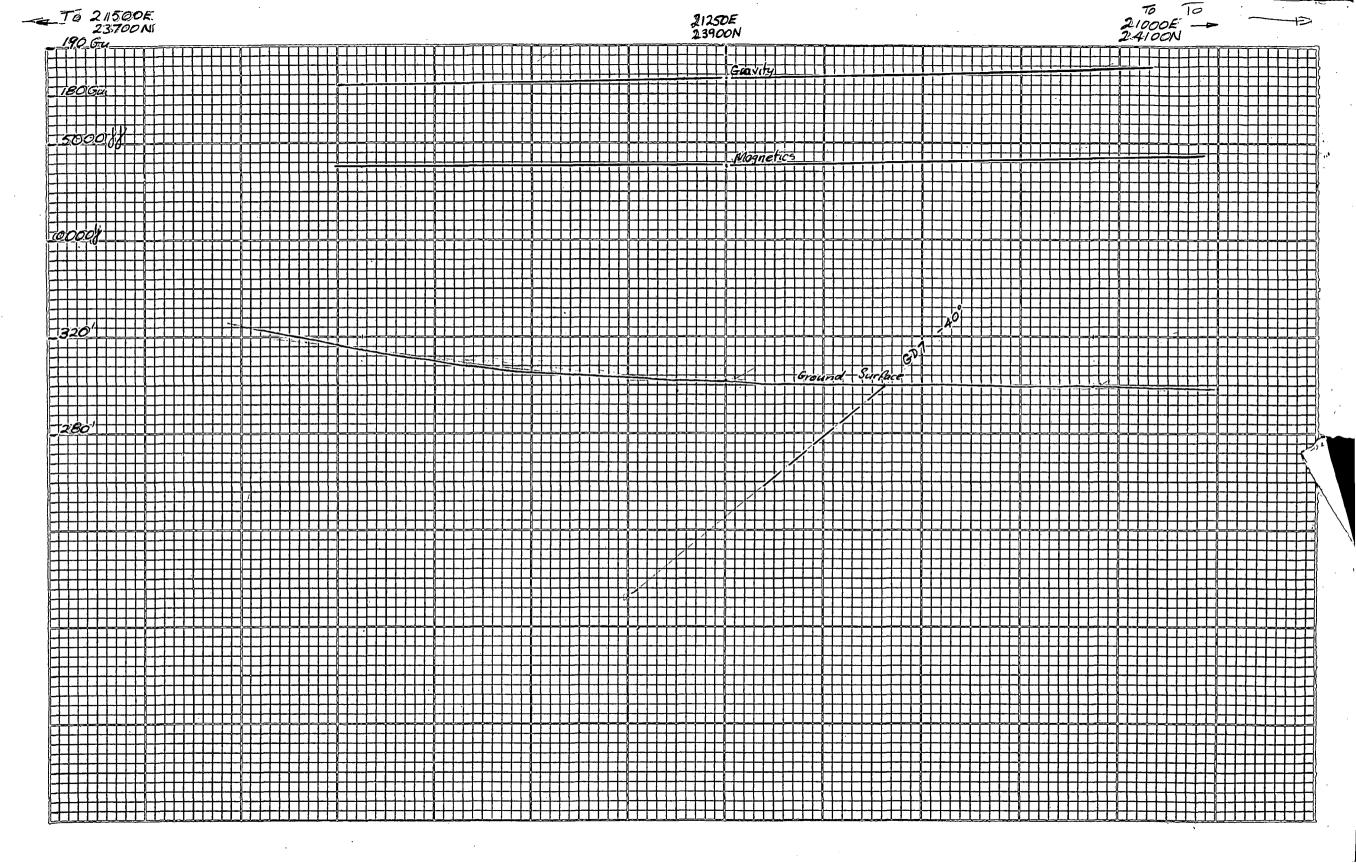
Abaggis back Lockay Brach Survey duill logs XS detuilled logs for your Computer 563 gesusceptibility Theitting nest O GD5 mill hurd about end of week 2 news on 4.0,5, - 2 weeks. Buy Friday week may be near bird, + 2 days holicany Bill Pike mill ning hefore end of week Sat or Sun for milling figures. Detnils of GD6



G.D.I.



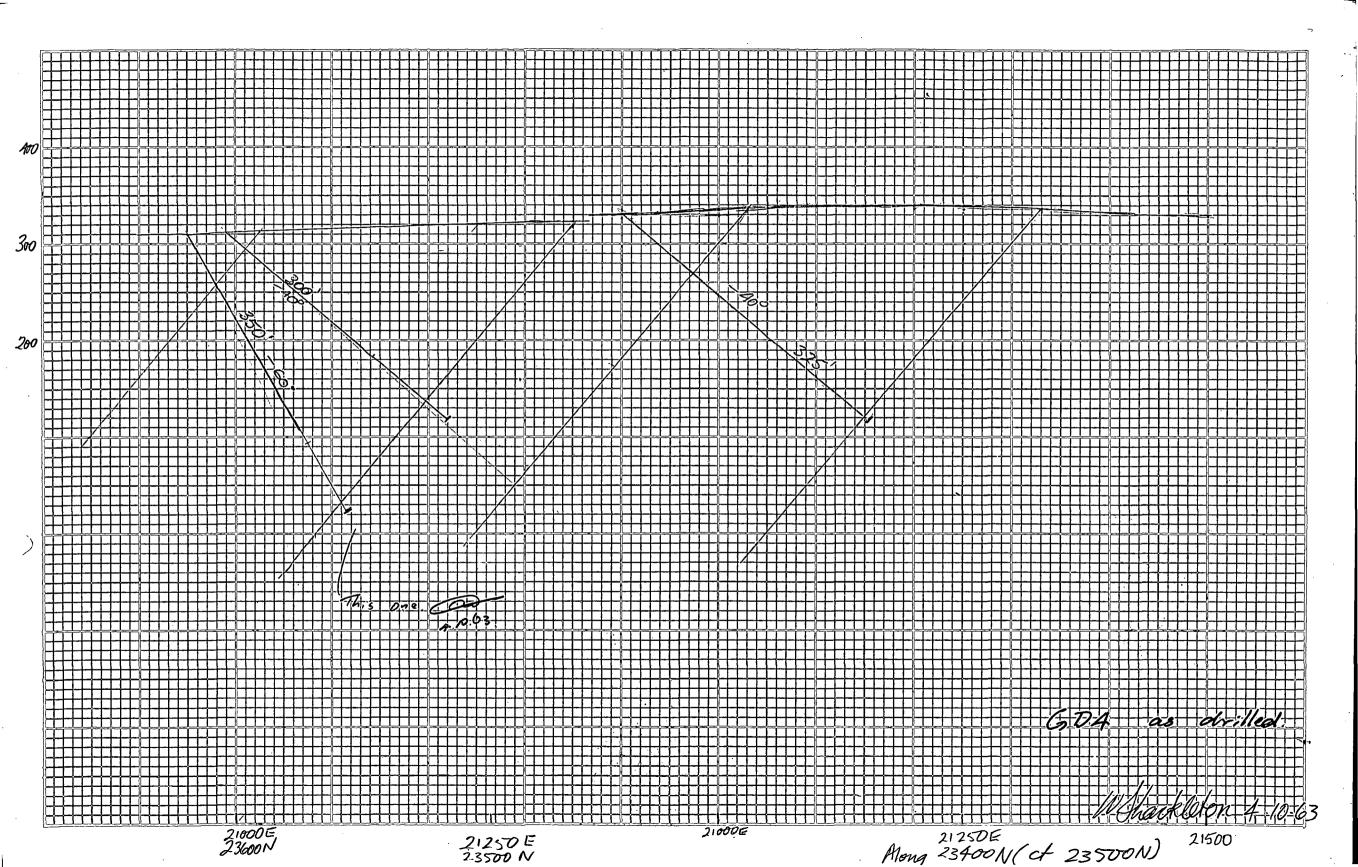
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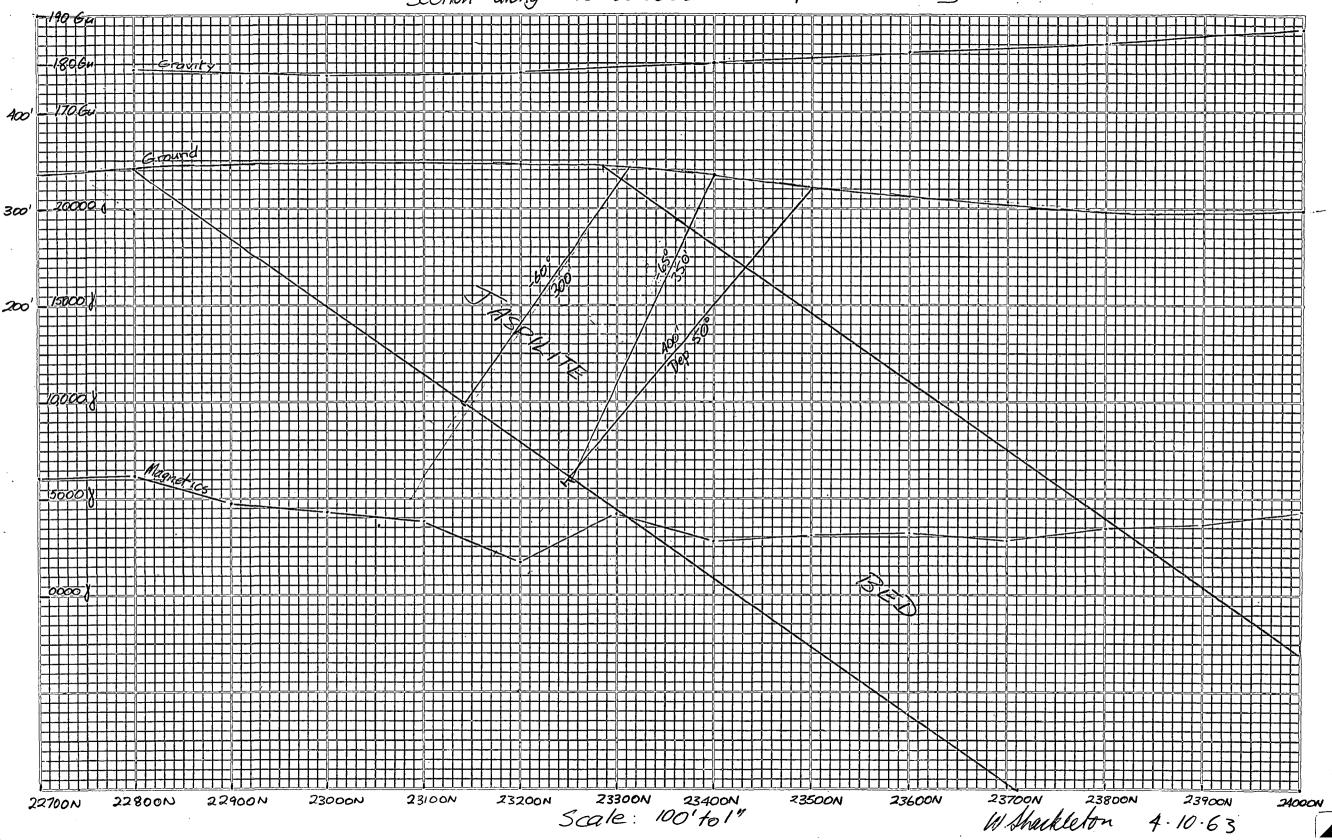
GFW body Hole on 21000E, dep 50°S, to 5<sup>44</sup> at 23400N Will text bed a small magnetic anomaly 200' hole.

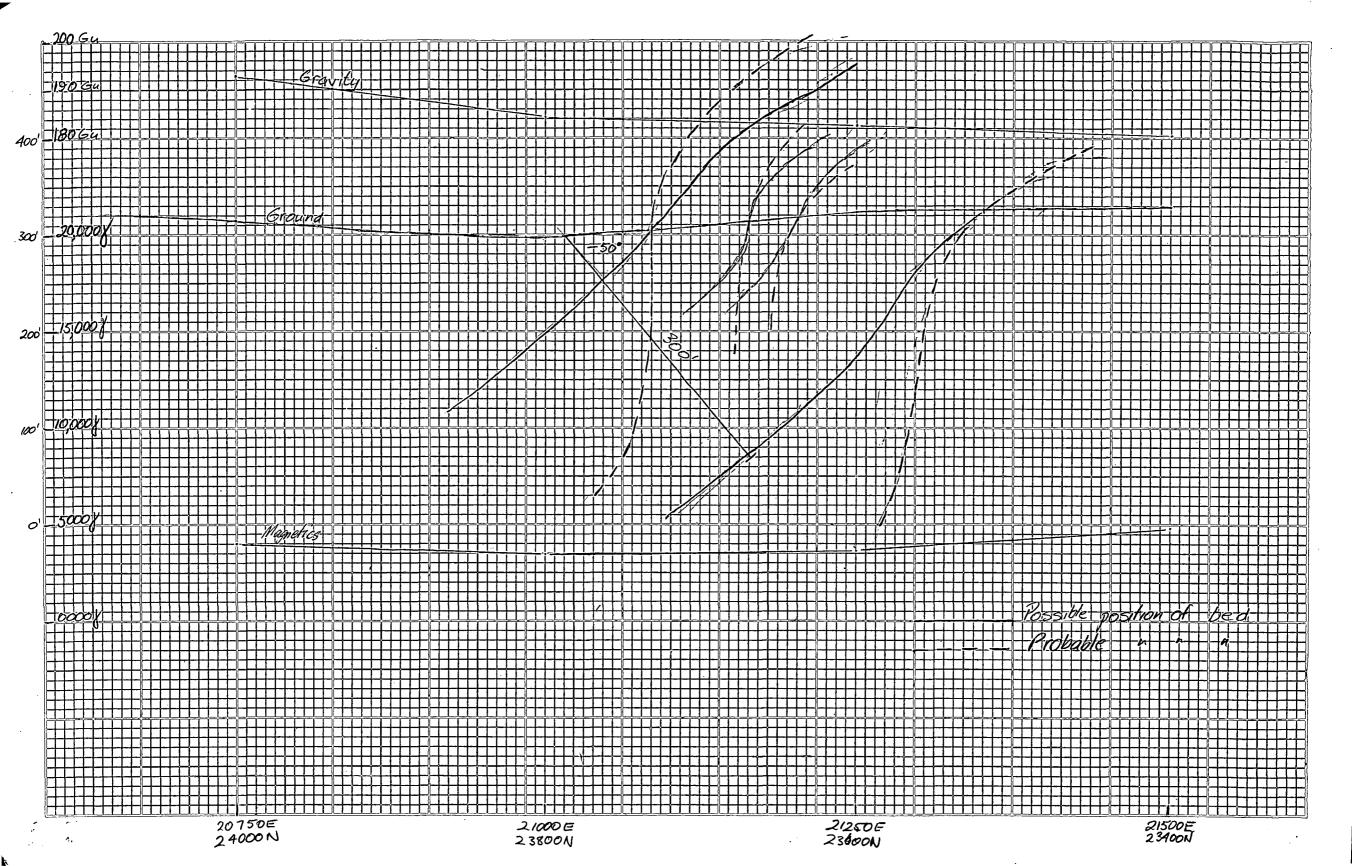
check homilitity of shorter dots quice E.

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Section along line 21000 & Greenpatch Anomaly





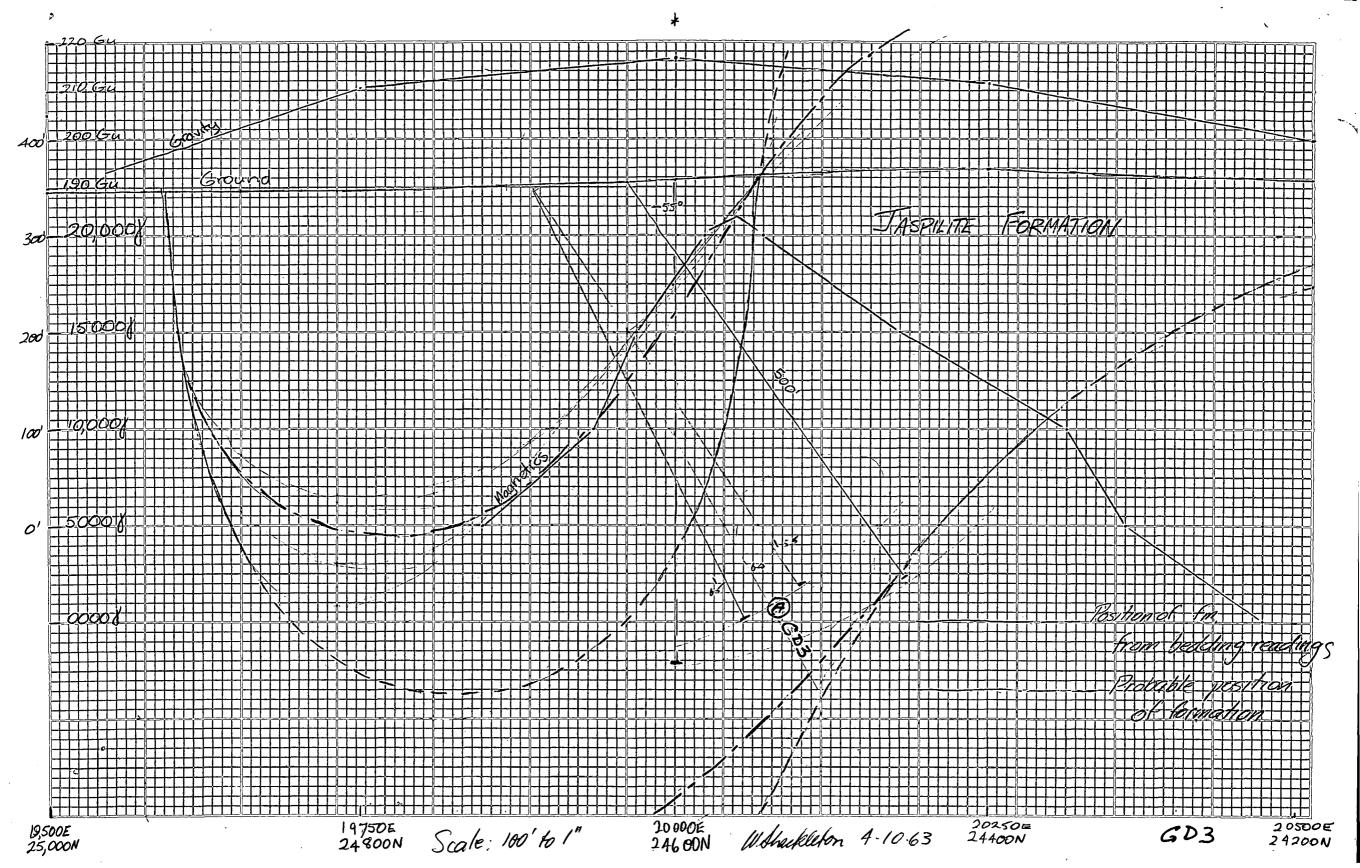
Andreat 19750E 24800N

Two people positions of format by hole as shown on section & plan. The hole would be Reparessed 550 & Ne SOO' long Even so, the hole would have No be approx Too' long & depressed at a steeper angle to the feat the formation and ana gravety and magnetic anomation

Decision

Drill R wissian -60° mit homitating of \$ B.

(U,



Structure at 19750E 24500N. One hole 500' + the linest depressed at 50° 4 in a prection 15° W of yord. South collared at 24600N well test bed, magnetic & gravity anomalies. Direction follows avial plane.



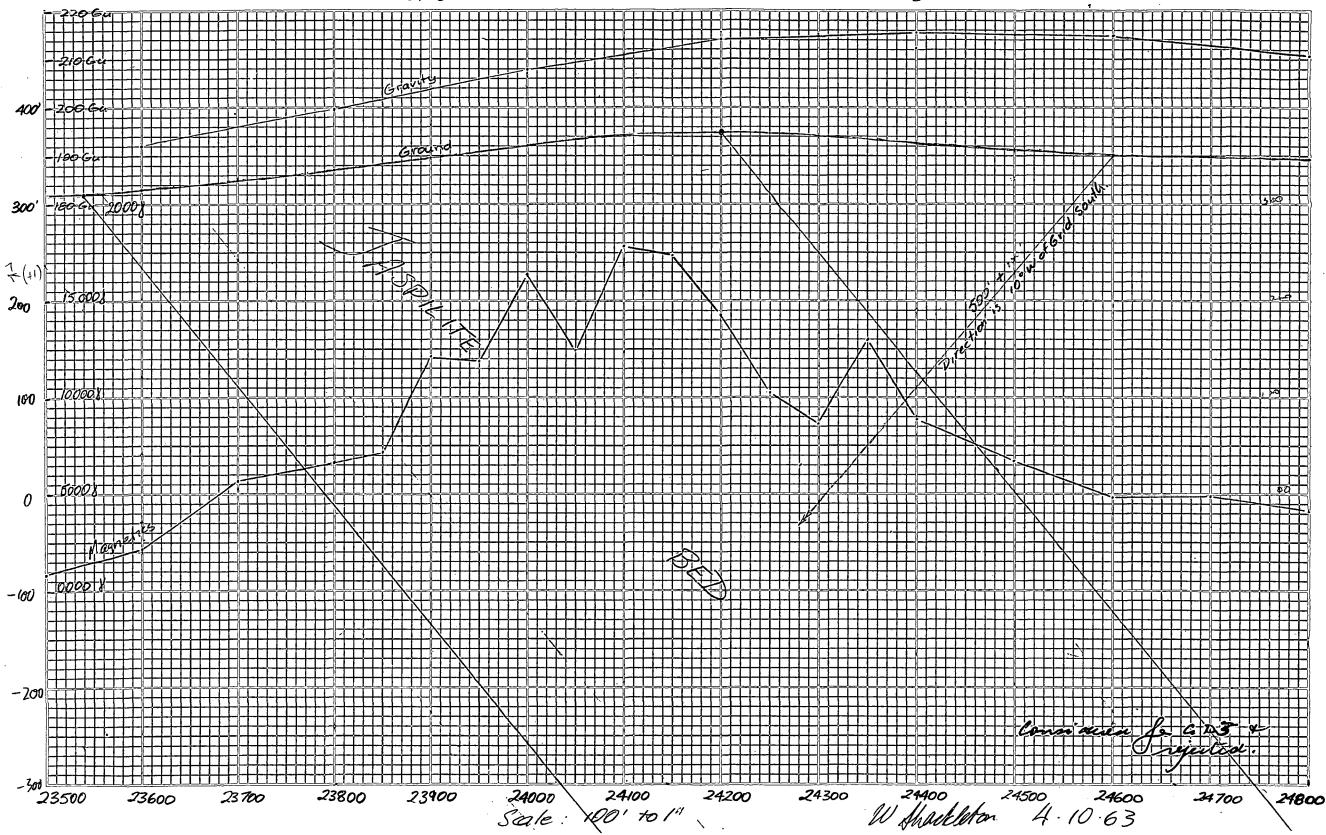
Considered for GD3x rejected

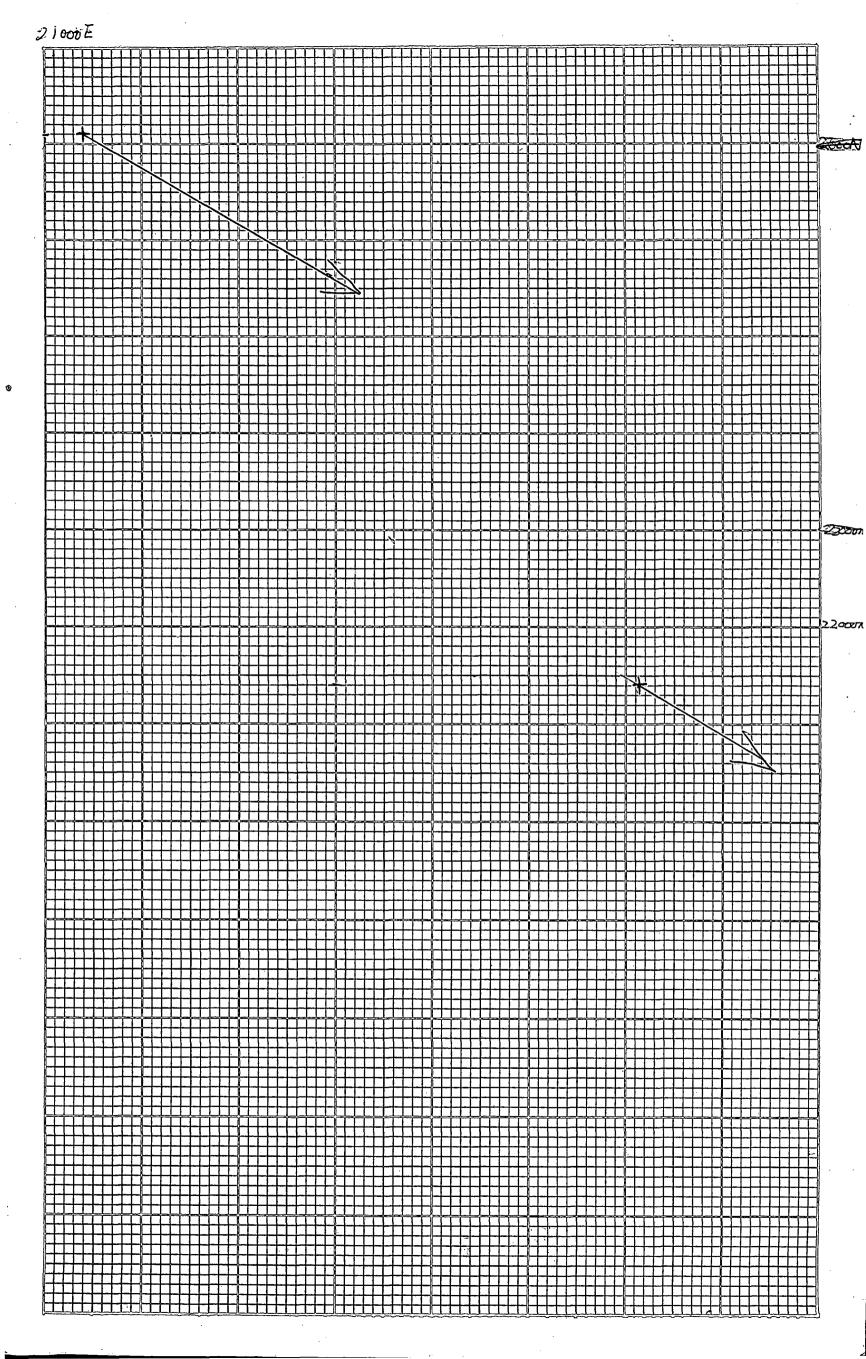
Greenpatch mondy, Louthern Cyre Penneula. Americanal lentours of miner syncline. 23,000 +~ 3000'61 3000'61 -+ 3052'61 10'520E 13'e00E 300561 + 305161 30561 \ зо'оос + 300008 305262 305202 250002 230001

W Shackleton 4.10.63

GD3

Greenpatch Anomaly SECTION ALONG 19750E





#### TO THE CHIEF GEOLOGIST:

### Drilling - Greenpatch

With the increased drilling activity at Greenpatch and the necessity to indicate large tonnages it is desirable to test as many different structures as possible.

The current programme of 3 holes (G.D.2,3, & 4) will test 3 minor synclines on the western limb, one hole in each structure. Two zones on the overturned east limb also require drilling. These should be drilled by holes G.D. 5 & G.D.6 immediately following holes G.D.2, 3 and 4 so that the ore potential of the 5 structures can be compared. Should any of these 5 holes be encouraging further targets in the relevant structures can be suggested at short notice.

At present the following holes are proposed:

<u>Hole No</u> .	<u>Coordinates</u>	<b>Direction</b>	Angle	Length
G.D. 5	21940 N 21615 E	120 <sup>0</sup> Grid	- 458°	400'-600'
G.D. 6	22510 N 21040 E	120 <sup>0</sup> Grid	- 450°	400*

Mr. Shackleton has been instructed to lay out these holes on Tuesday 3.12.63.

Initial approval has been obtained for £3,5000 It is suggested that another £5,000 be sought as an interim approval pending clarification of the Special Mining Lease.

GW:PAL 2/12/63

<u>GRAHAM WHITTEN</u> Senior Geologist Iron Exploration Section

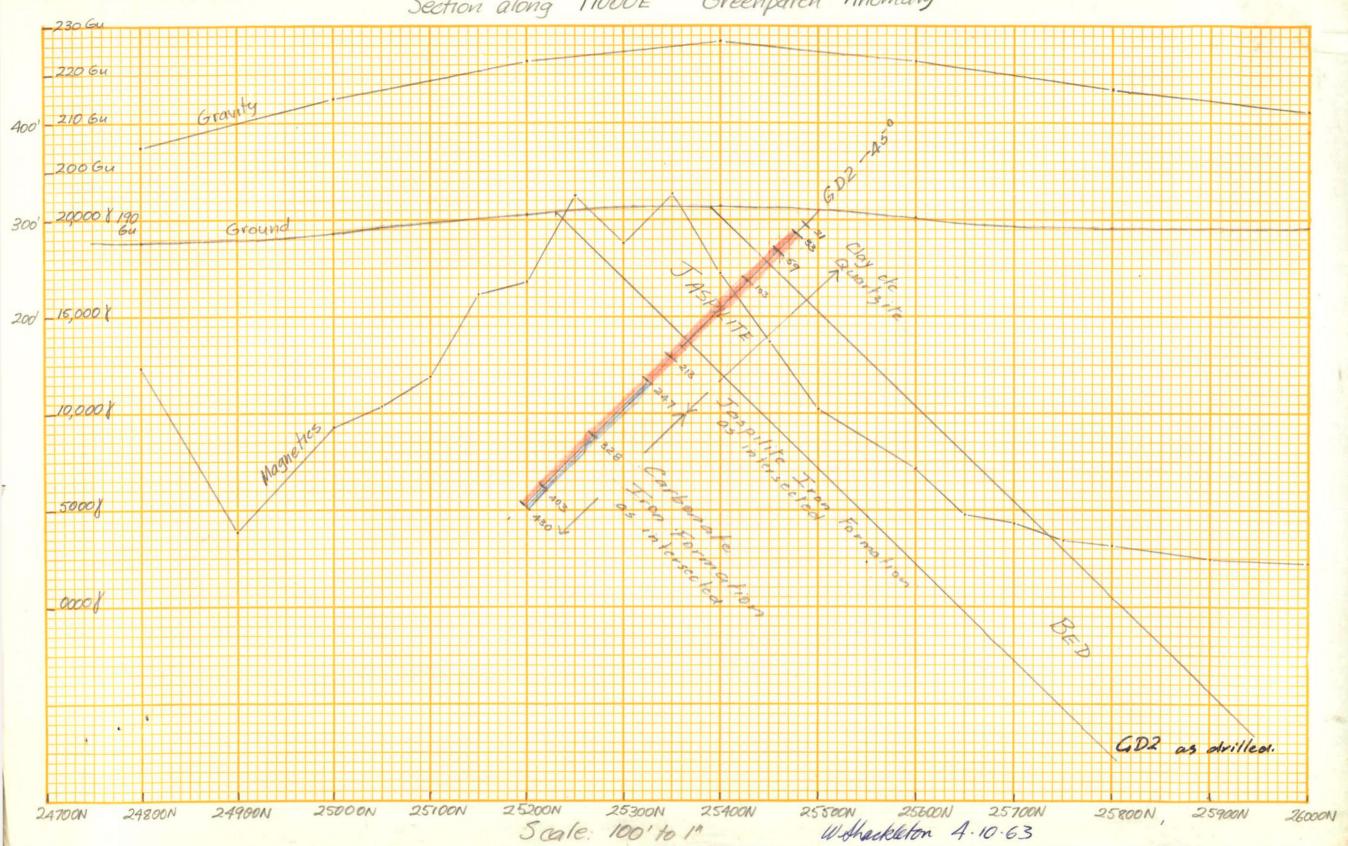
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Woolphed Kill Only a 200" foot hole depressed 45° along 17000E to South will test bet and both the greenty a magnetic anomalies Solar at 25500N

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G

Section along 17000E Greenpatch Anomaly



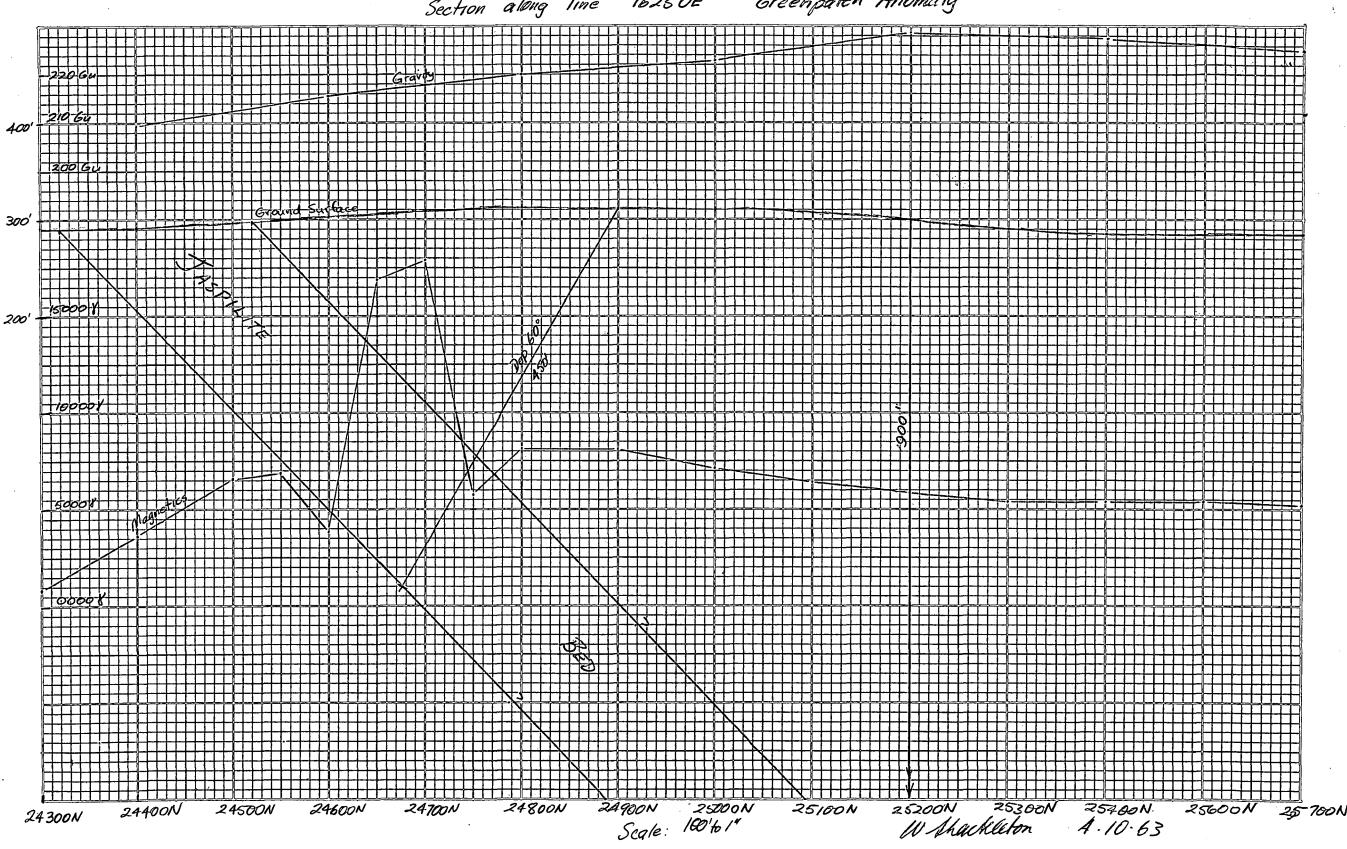
I Possibility of two holes on time 162501 The first on 24900N is depressed 4500 to good south & would be appropriate long. This assumes plunge of the Atructure to be 50°. This first hole would test is bed position (ii) Magnetic peak (in) imall gravity anomaly outenks of larger. B The second a vertual note on 252000 would text (i) Bed position (n) Main gravity pack (iii) Imale magnetic unomally on flanks of larger. This hole would be approx. 4900' deep.

Refer Juncing workshire Kill.

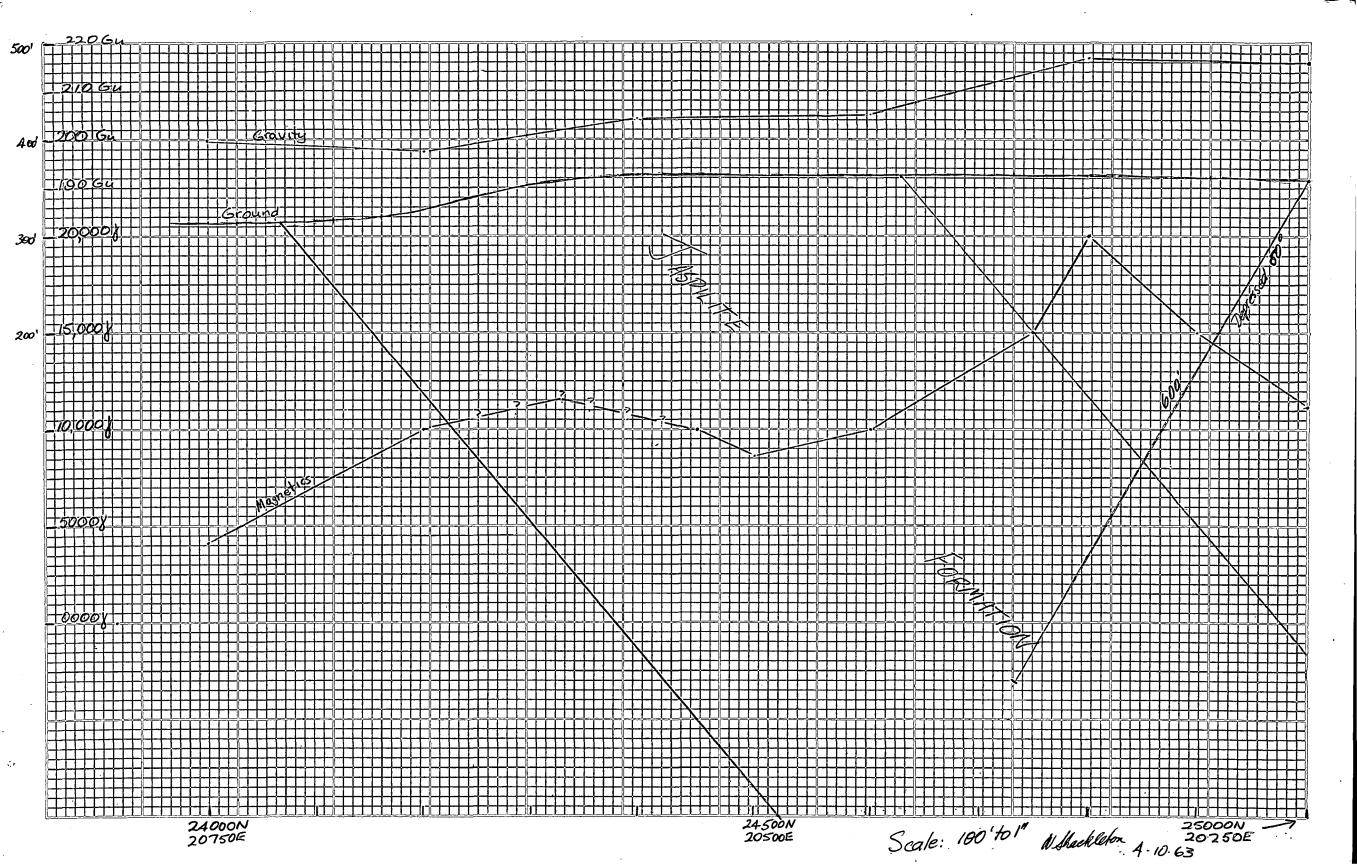
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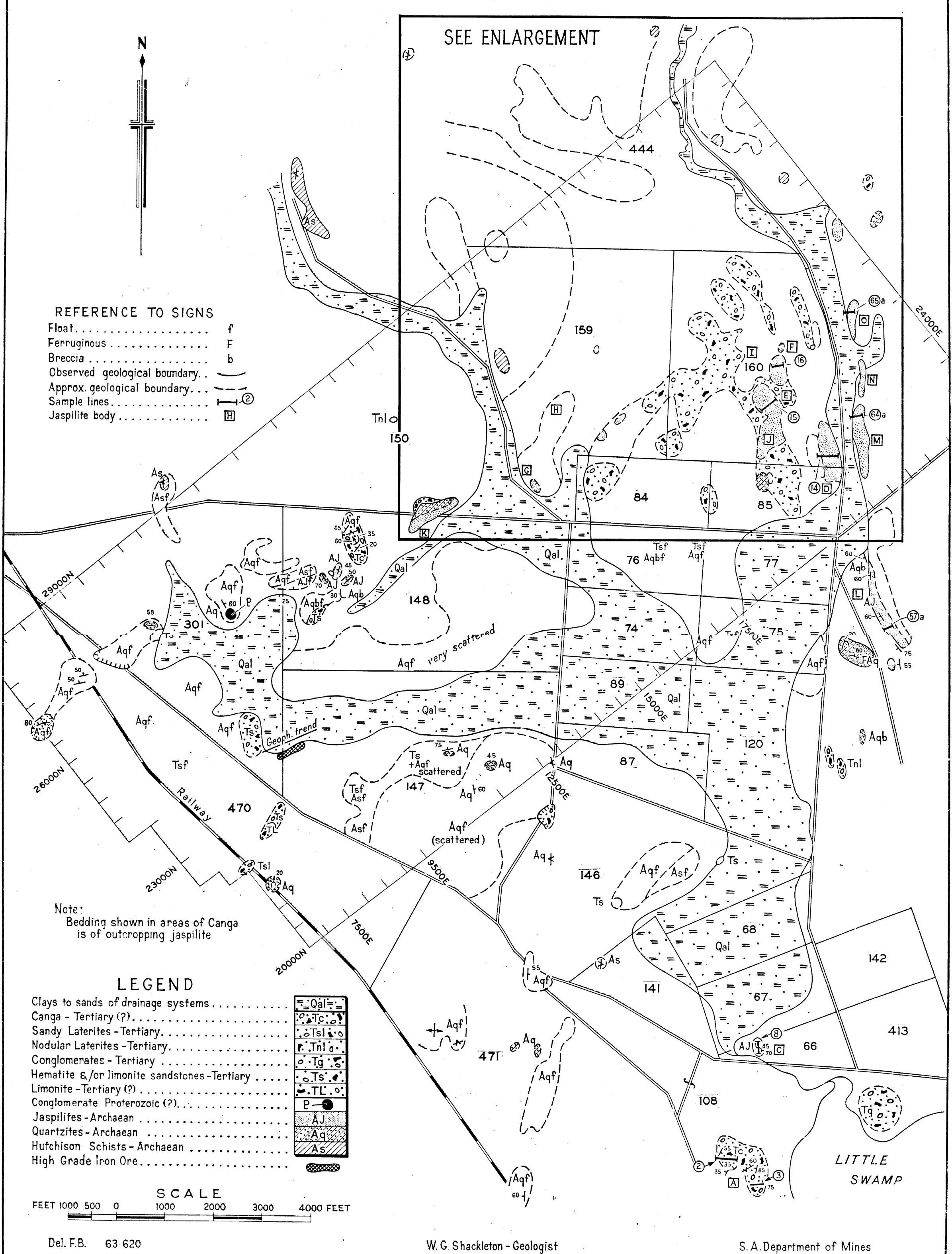
Section along line 16250E

Greenpatch Hnomaly



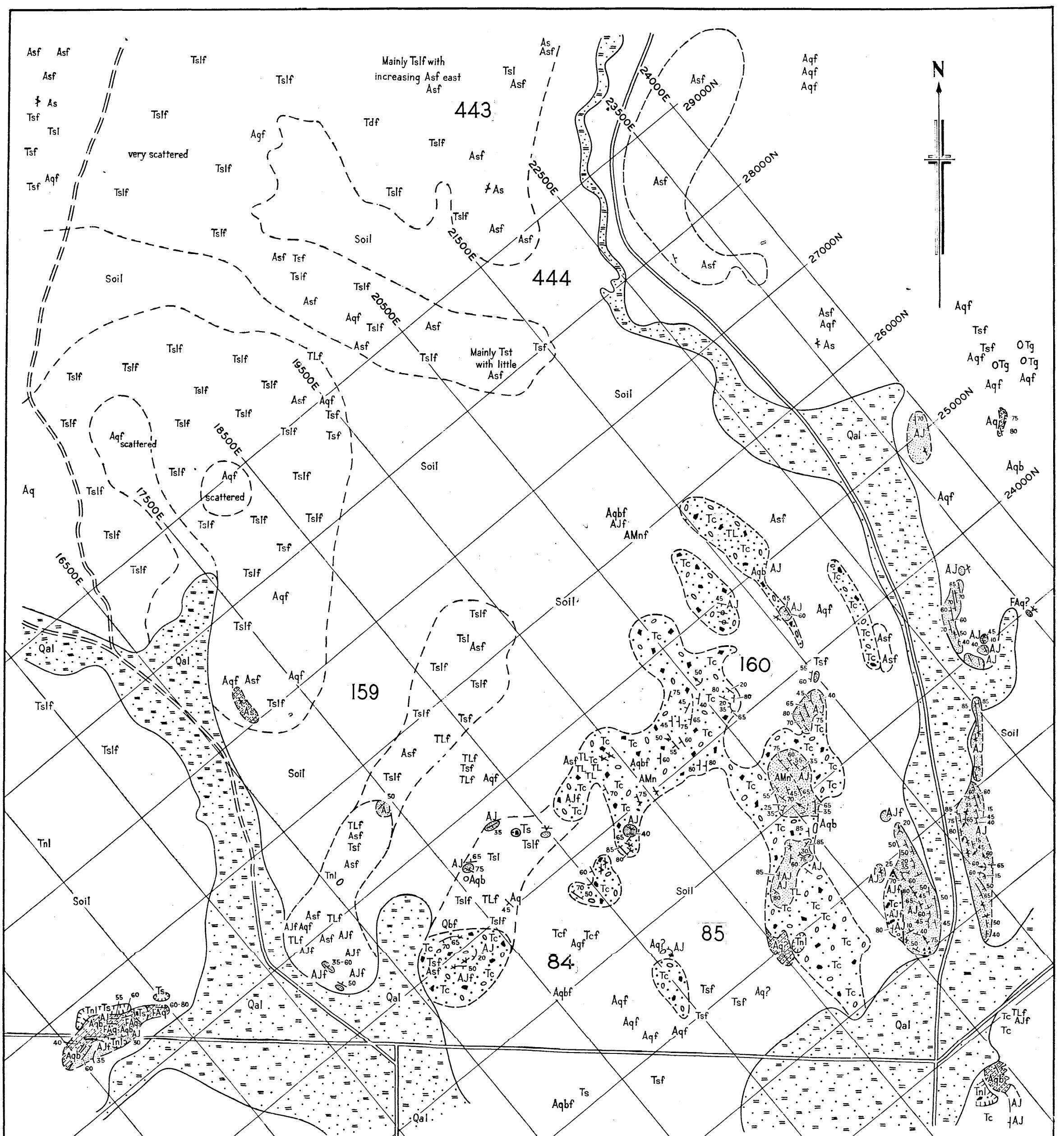
Structure at 24500N 20500E. One hole depressed at \$60° in a doreit southerly direction 25° E of & 500 long to test the papelite formation, man gravity and magnetic seaks hole collared of 25000N 20250E

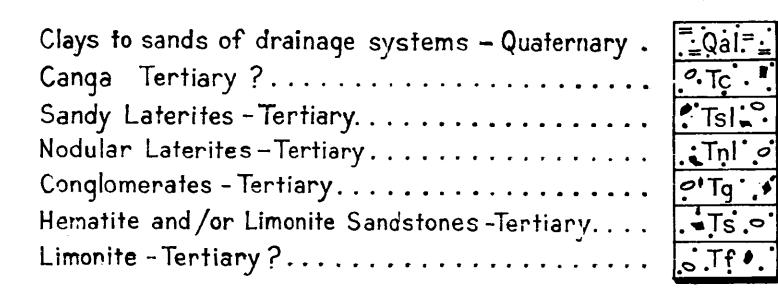




Clays to sands of drainage systems	=_Qal=
Canga – Tertiary (?)	:0; ic:
Sandy Laterites - Tertiary	:öTsli
Nodular Laterites - Tertiary	r. Thio
Conglomerates - Tertiary	o .Tg .
Hematite & /or limonite sandstones-Tertiary	- Ts
Limonite - Tertiary (?)	.TĽ.
Conglomerate Proterozoic (?)	P1
Jaspilites-Archaean	AJ
Quartzites-Archaean	Ad.
Hutchison Schists-Archaean	//As/
High Grade Iron Ore	

				SCA	LE		•	
FEET	1000	500	0	1000	2000	30	00 40	00 FEET





1500k

13500K

Jaspilites - Arch	ea <b>n</b>		• • • • • •	Aj
Quartzites – Arch				
Hutchison Schist Manganiferous or	s – Arch	ean	• • • • • •	//As/
	SC	ALE		
FEET 400 0	400	800	1200	1600 FEE

2100014

2200014

30000

Float	••••• f
Ferruginous	<del>ب</del>
Breccia	_
Observed Geological boundary	/
Approximate Geological boun	dary
Note: Bedding shown in are	as of Canga is of
outcropping	jaspilite

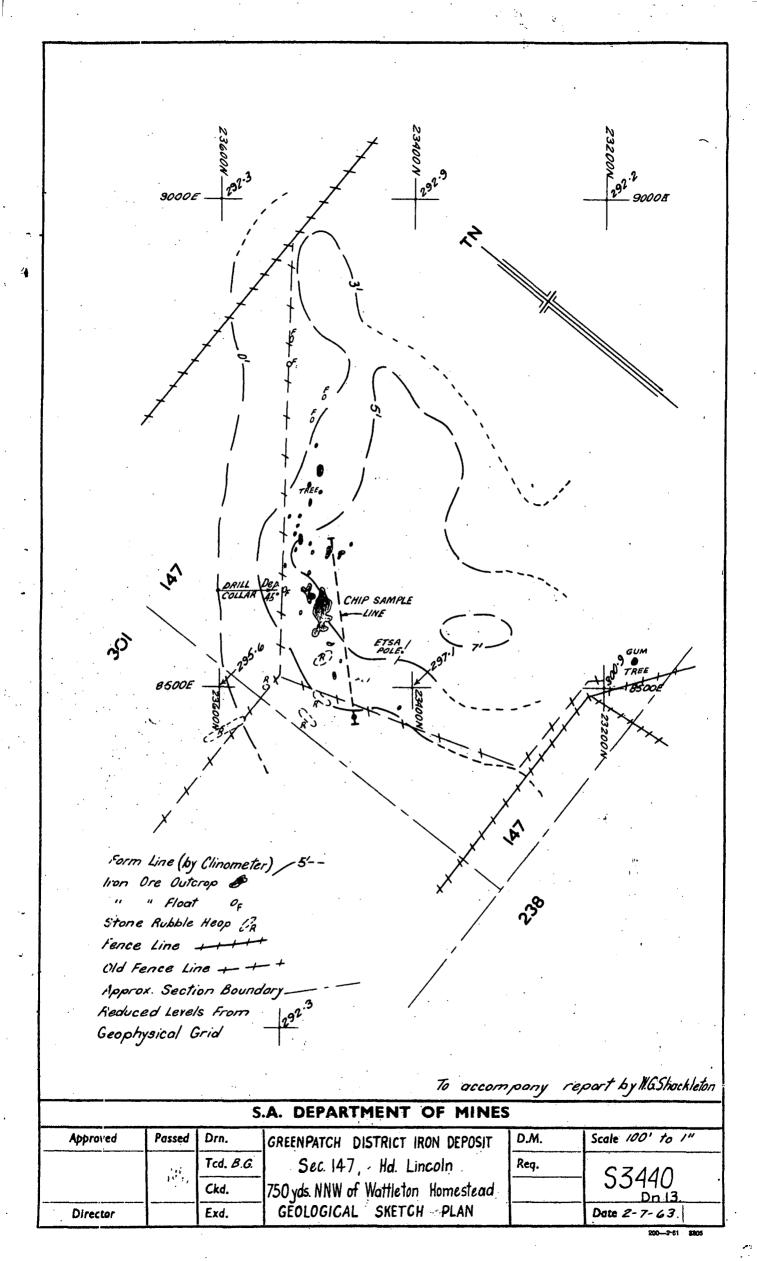
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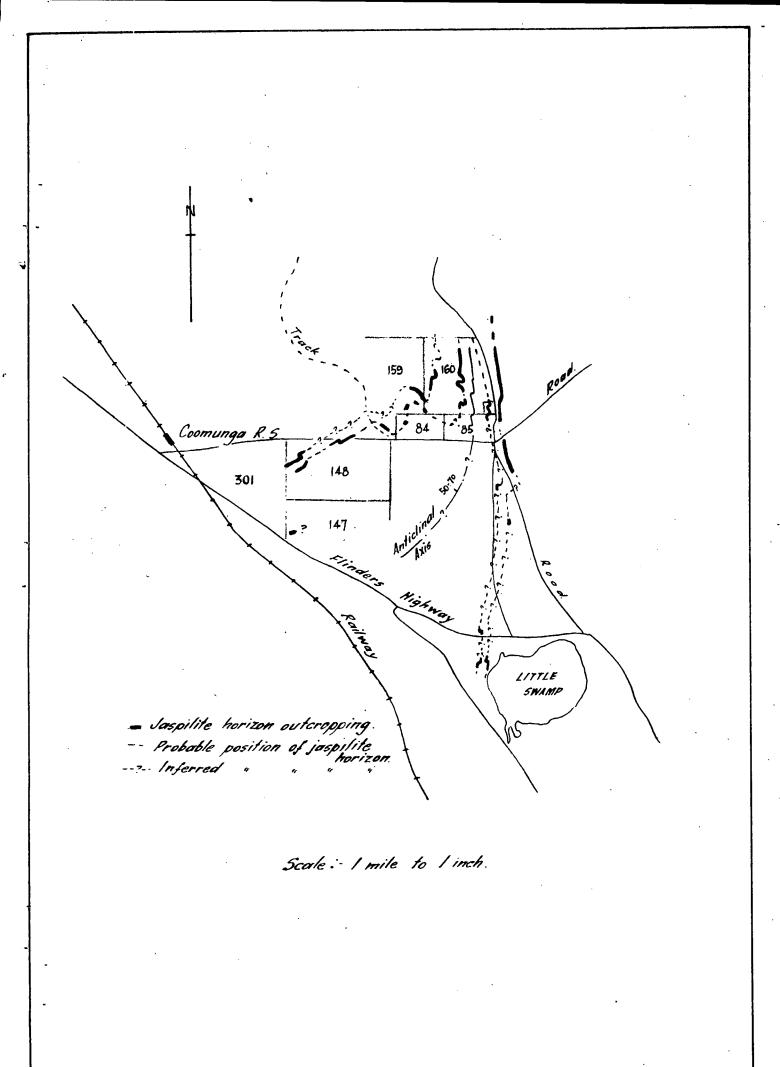
Del. F.B. 63.621/1

W.G.Shackleton-Geologist

S.A. Department of Mines

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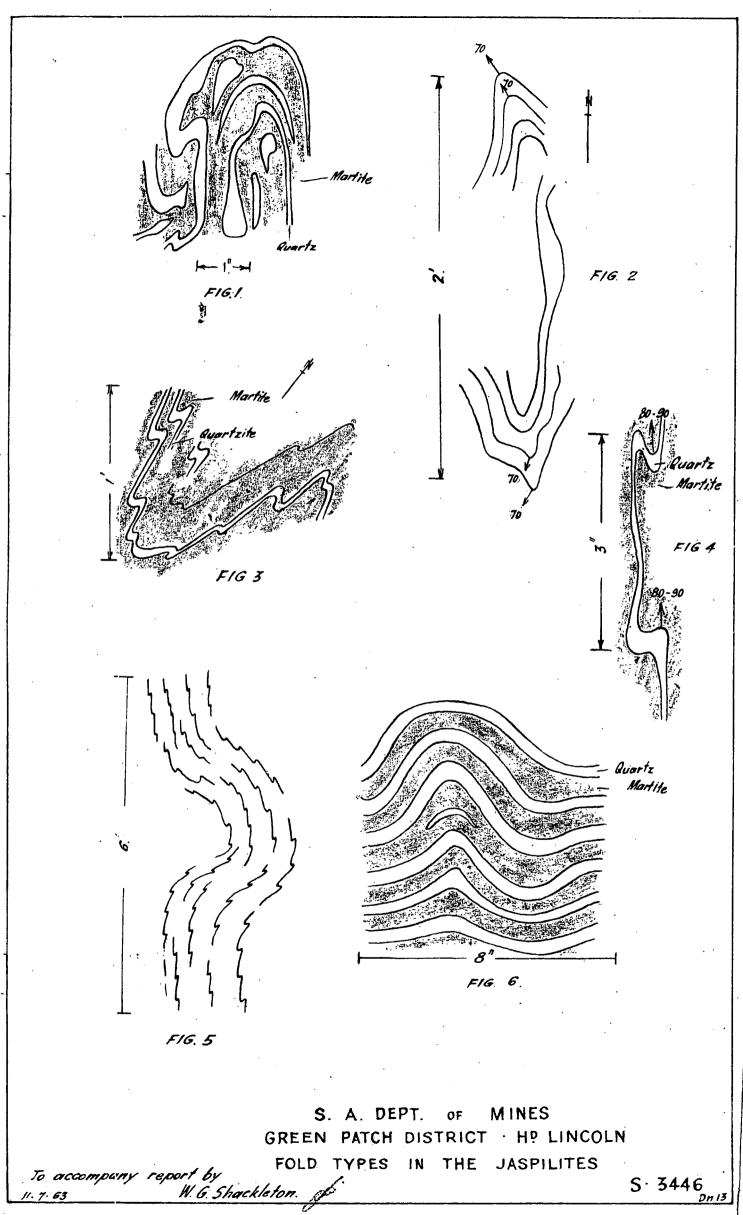


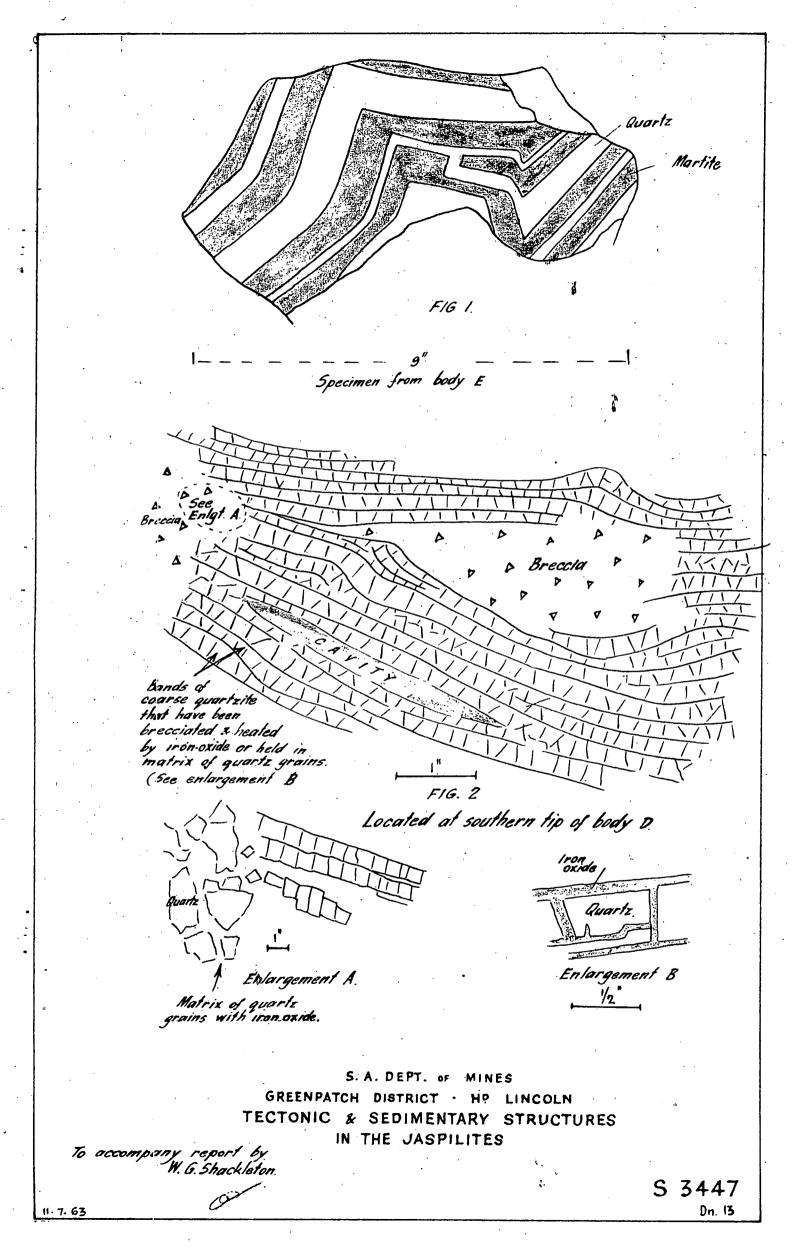


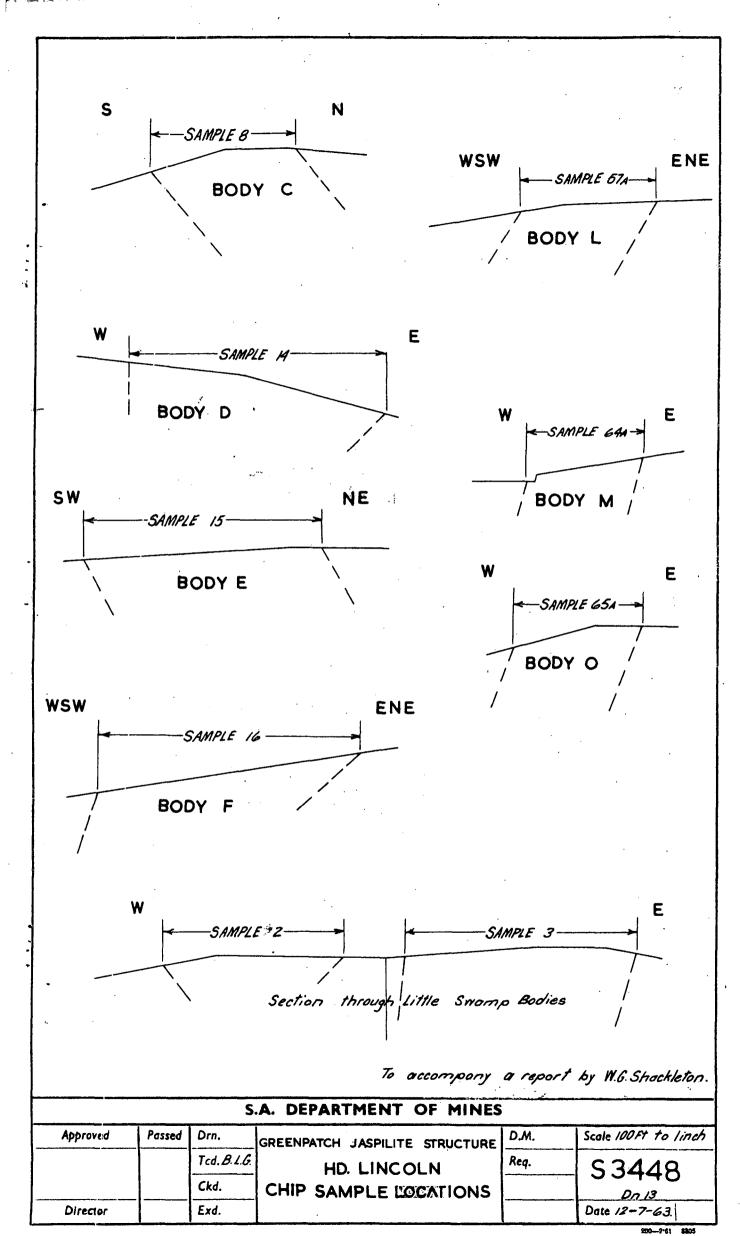
S. A. DEPT. OF MINES GREEN · PATCH DISTRICT - HP LINCOLN JASPILITE STRUCTURE

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