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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>RAYMOND OIL COMPANY, INC.</u> LEASE <u>#1 HANKS-MRLI UNIT</u> FIELD <u>WILDCAT</u> LOCATION <u>110° EML & 2230° FWL</u> SEC <u>26</u> TWSP <u>18s</u> RGE <u>27W</u> COUNTY <u>LANE</u> STATE <u>KANSAS</u>	ELEVATIONS KB <u>2611</u> DF _____ GL <u>2606</u> Measurements Are All From <u>2611 KB</u>
CONTRACTOR <u>L.D. DRILLING, INC.</u> SPUD <u>1-25-14</u> COMP <u>2-4-14</u> RTD <u>4690</u> LTD <u>4691</u> MUD UP <u>3516</u> TYPE MUD <u>CHEMICAL</u>	CASING SURFACE <u>8 5/8" @ 261'</u> PRODUCTION _____ ELECTRICAL SURVEYS DUAL IND., DENS.-N. MICRO SONIC

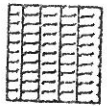
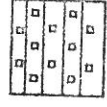



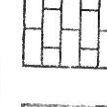
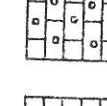
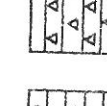
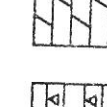
SAMPLES SAVED FROM _____	<u>3400</u>	TO	<u>4690</u>
DRILLING TIME KEPT FROM _____	<u>3400</u>	TO	<u>4690</u>
SAMPLES EXAMINED FROM _____	<u>3400</u>	TO	<u>4690</u>
GEOLOGICAL SUPERVISION FROM _____	<u>3700</u>	TO	<u>4690</u>
GEOLOGIST ON WELL <u>KIM B. SHOEMAKER</u>			


FORMATION TOPS	LOG	SAMPLES	
ANHYDRITE	1974 + 637	1975 + 636	
B/ANH.	2002 + 609	2002 + 609	
STOTLER	3457 - 846	3458 - 847	
HEEBNER	3893 - 1282	3897 - 1286	
LANSING	3932 - 1321	3932 - 1321	
HUSHPUCKNEY	4235 - 1624	4237 - 1626	
MARMATON	4301 - 1690	4304 - 1693	
FORT SCOTT	4450 - 1839	4450 - 1839	
CHEROKEE	4474 - 1863	4474 - 1863	
MISSISSIPPI	4598 - 1987	4597 - 1986	

REMARKS
1-25-14 SPUD
1-26 @ 346'
1-27 @ 1831'
1-28 @ 2720'
1-29 @ 3300'
1-30 @ 3866'
1-31 @ 4266'
2-1 @ 4510'
2-2 @ 4540'
2-3 @ 4690'
2-4 @ 4690'

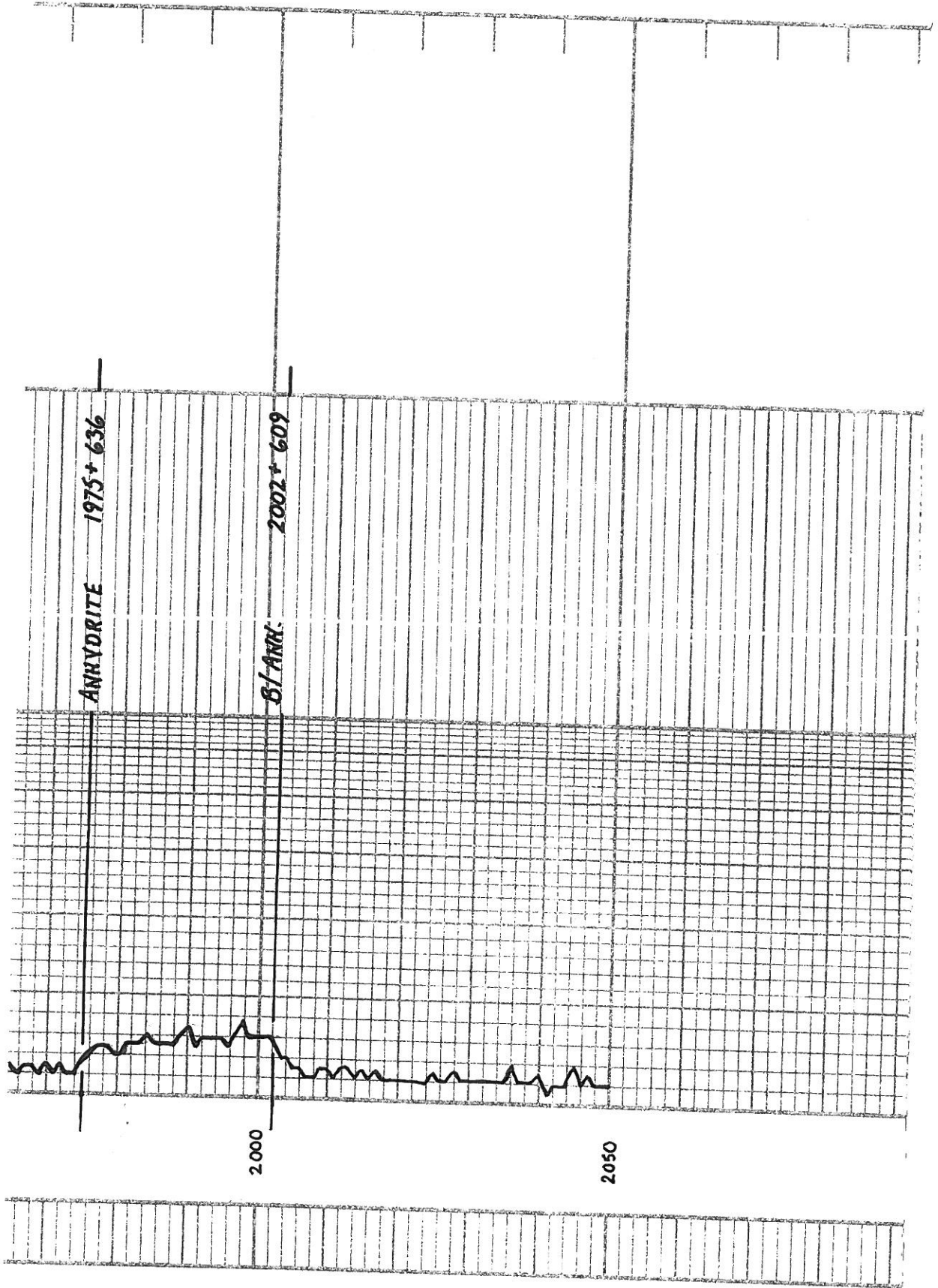
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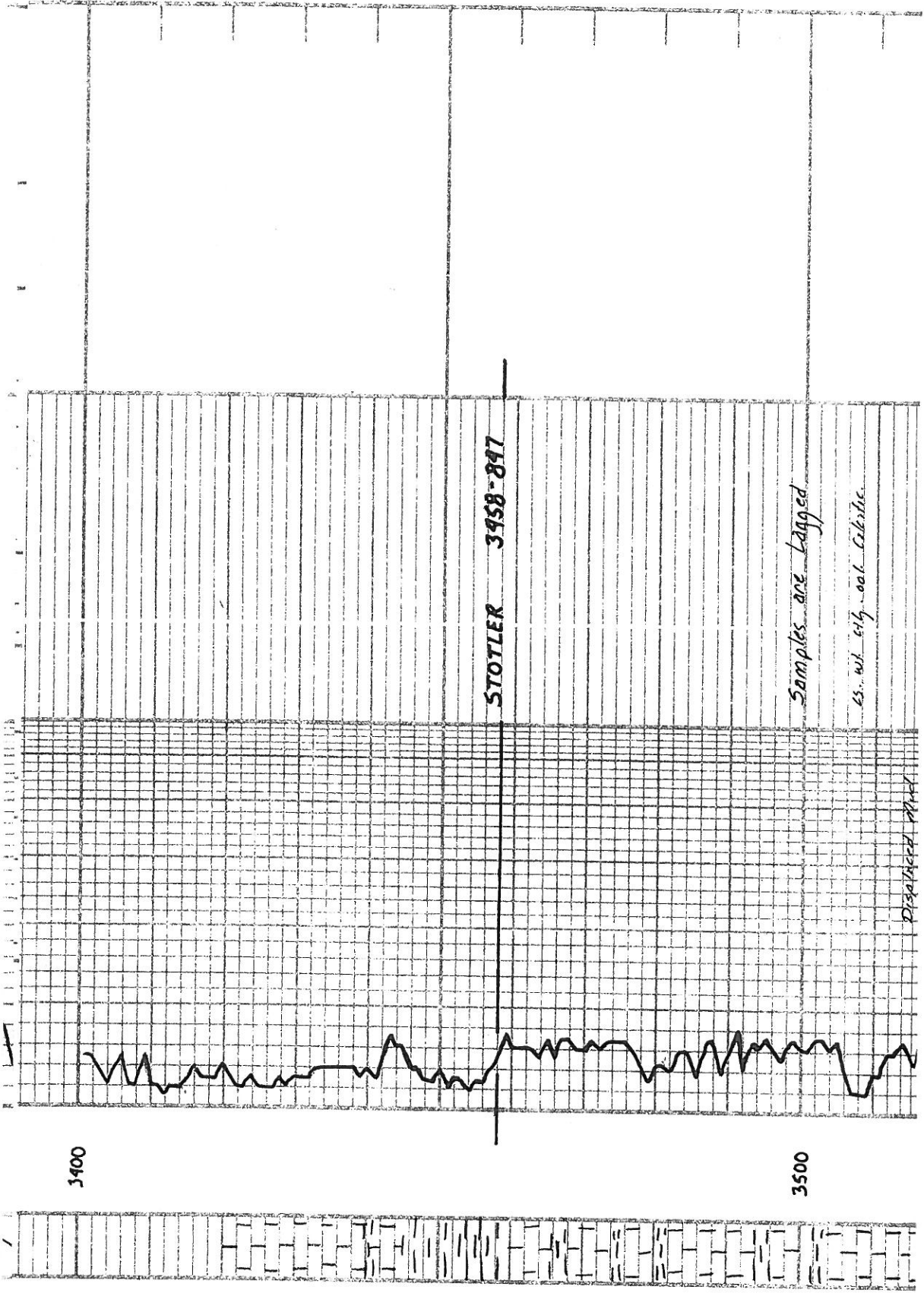
LEGEND

- 
 Anhydrite
- 
 Salt
- 
 Sandstone
- 
 Shale
- 
 Carb sh
- 
 Limestone
- 
 Ool. Lime
- 
 Chert
- 
 Dolomite

LITHOLOGY	DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Increases 	SAMPLE DESCRIPTIONS
DEPTH 1950		REMARKS

SHOE01-06





3400

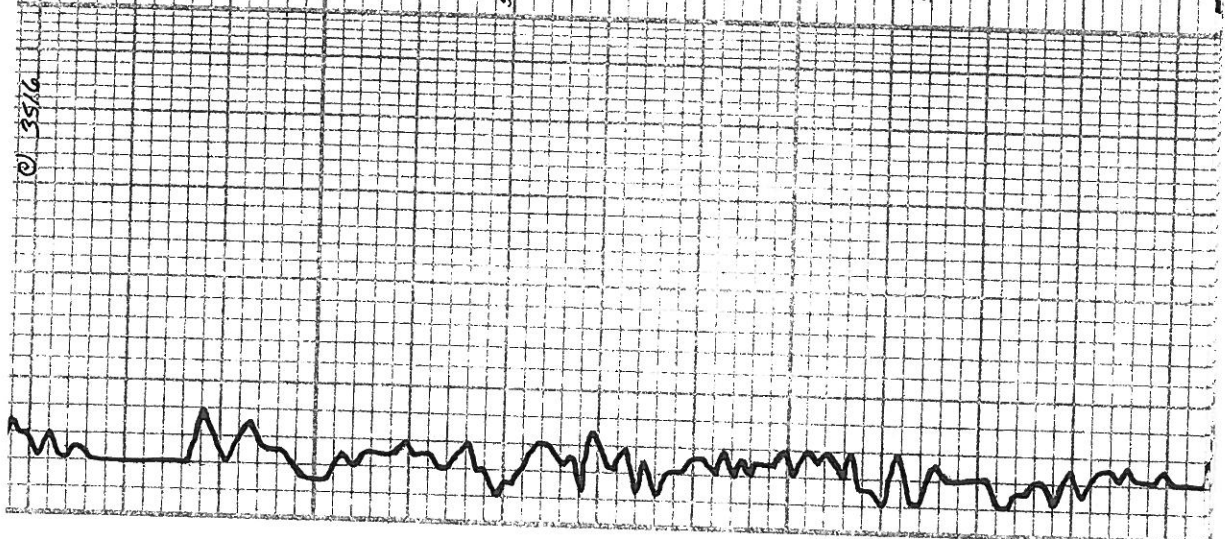
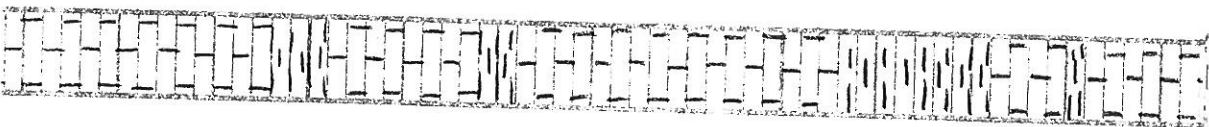
3500

STOTLER 3458-897

Samples are bagged

45 wt. oil. calcite.

Displaced Area



© 3516

ES. 219. 180. Fass. 181. A

Sh. 116. 180. Silby,

ES. Gy. Das

Sh. 116. 180. Silby,

ES. 219. 180. Fass. 181. A

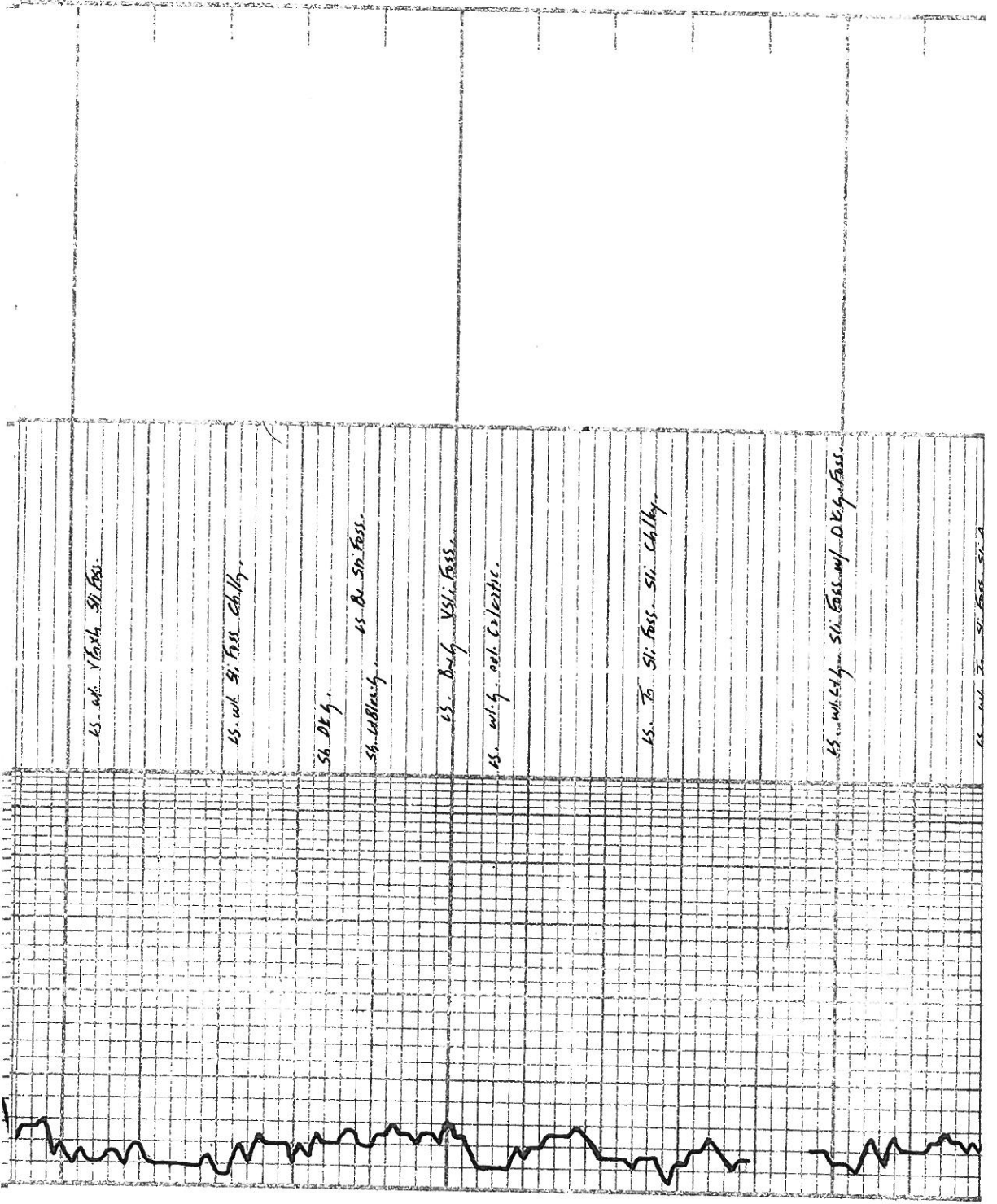
ES. 219. 180. Fass. 181. A

Sh. 116. 180. Silby,

ES. 219. 180. Fass. 181. A

ES. 219. 180. Fass. 181. A

3600



3700



ES. wt. 76. Foss. Calceolaria

ES. Hg. Box 6. Suc. Sil. Foss.

Δ Gy.

ES. 76 Sil. Foss. Sil. A

ES. 76. Box 6. Suc.

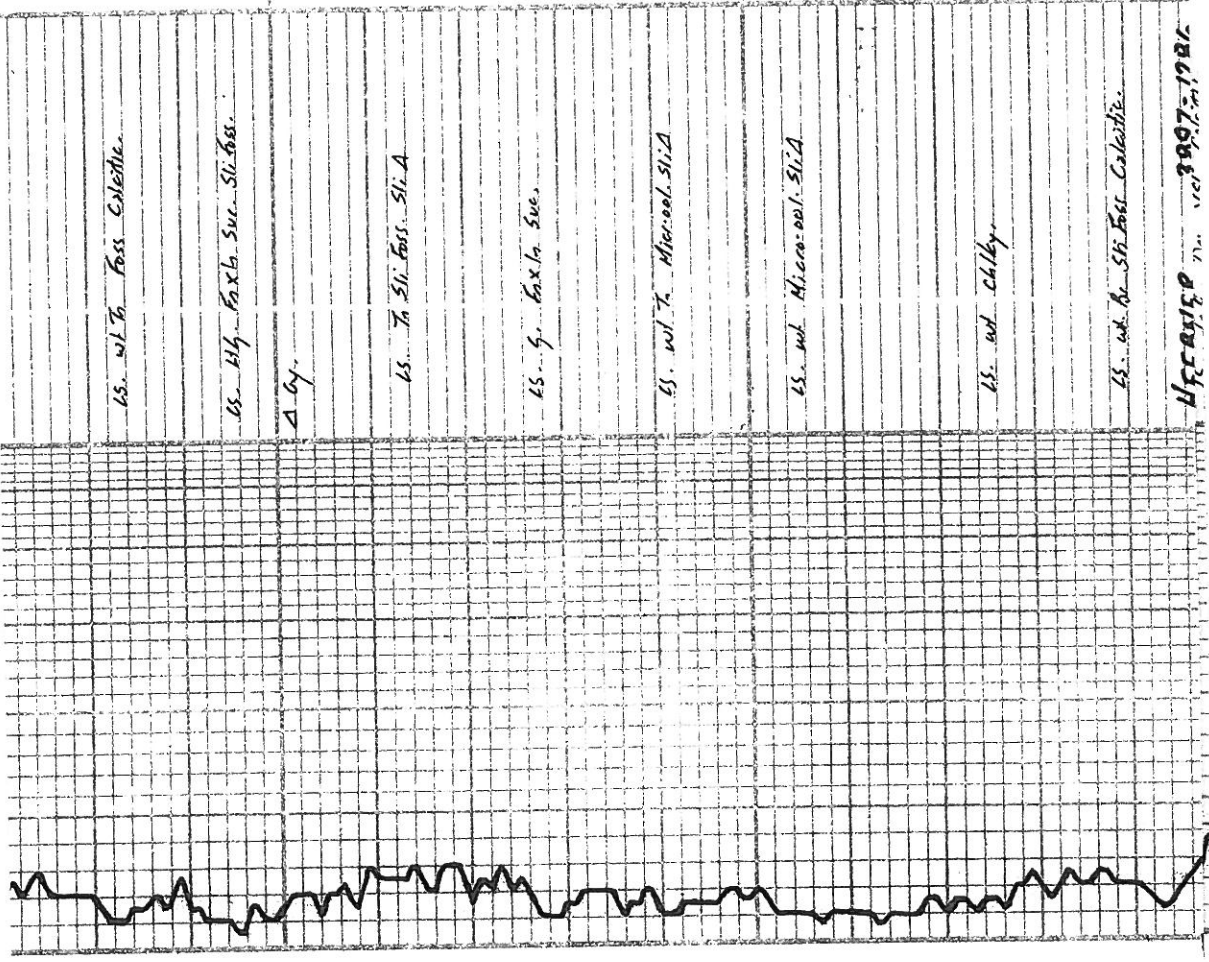
ES. wt. 76. Microool. Sil. A

ES. wt. Microool. Sil. A

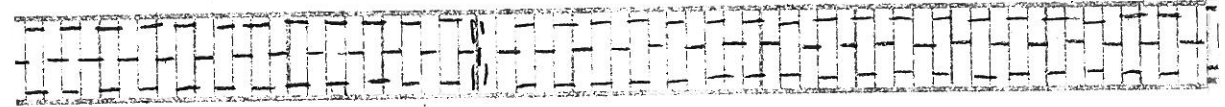
ES. wt. Calcey.

ES. wt. 6. Sil. Foss. Calceolaria

UPPER 1907-1921



3800



11.66.11.11
SH BLE CARB. (3910)
LS. Alg. Dal. 1871. Fass.

3900

Sh. L100.
LS. wt. Sil. Fass. Si. A
LS. wt. Chalk

TORONTO

467
Sh. Carb.

VIS: 50
WT: 9.0
ML: 6.4
CAL: 2400

LANSING 3932-1321

LS. wt. Sil. Fass. Si. Chalk
A. Wk.

4000

LS. To.ool. VSHI Chalk

LS. To. VSHA

Sh. DR h.

Sh. Carb.

LS. wt. Chalk. Sil. Fass. Si. Chalk

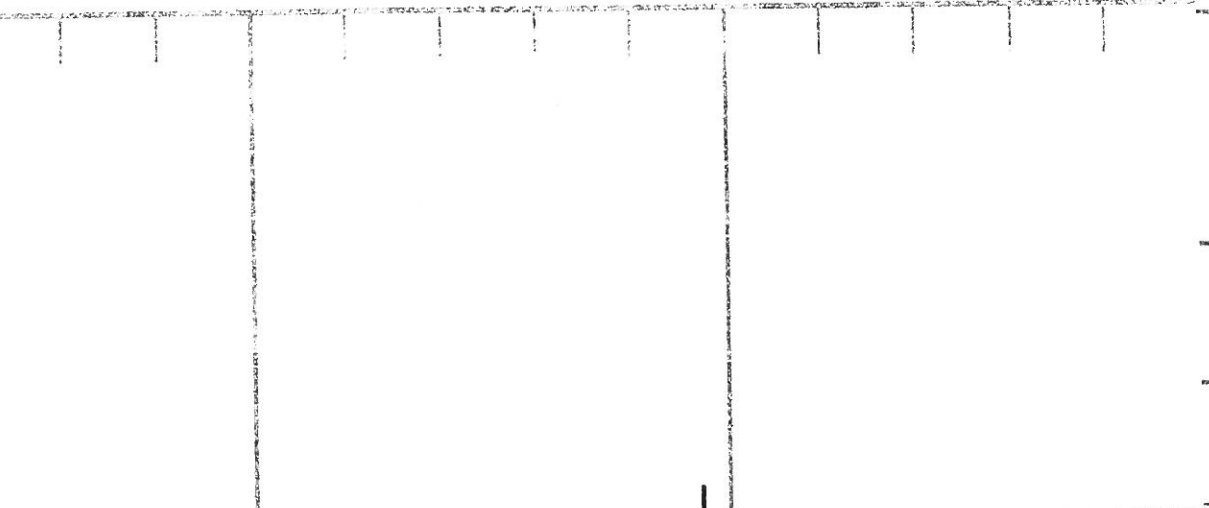
LS. Alg. wt. fac. Sil. Fass. Si. Chalk

4 To. Oolite

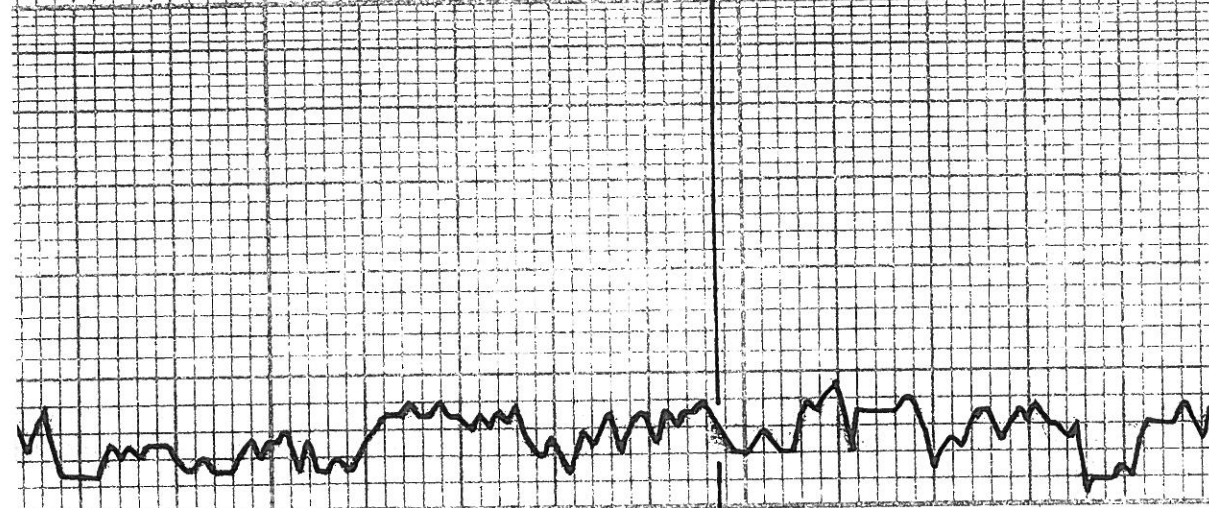
LS. wt. Chalk.

Sh. g.

LS. Be. VSHI. Fass. Si. A



ss. wt. ool. sil. chly.
 Δ wt.
 ss. wt. T. sil. foss. ool.
 Δ wt.
 ss. wt. sil. foss. chly.
 ss. gy. Dal.
 ss. wt. sil. sil. foss. sil. chly.
 ss. sil. vs. chly.
MUNCIE CREEK 4097-1486
 Sh. sil. ool. ss. B. sil. foss. Col. sil.
 Sh. G. sil.
 Δ wt. sil.
 ss. wt. sil. foss. sil. Col. sil.
 Δ gy. ss. wt. sil. foss. ool. sil. chly.
 Sh. G. sil. vs. sil. foss.
 ss. wt. ool. sil. chly.

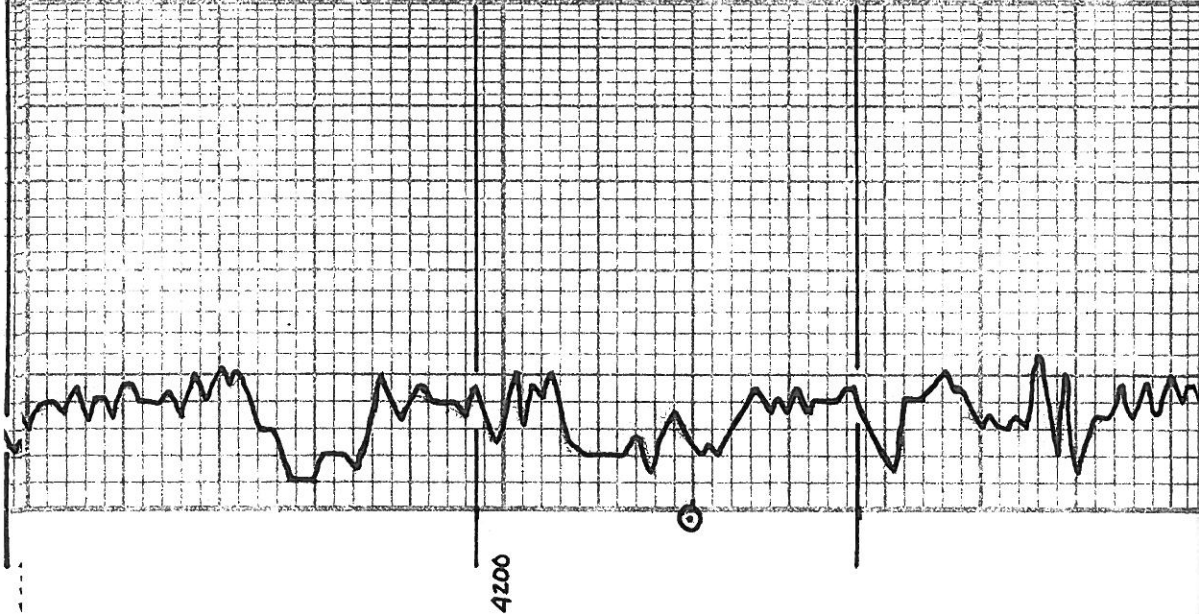


4100



70 710 720 730 740 750

ISEMNER V. 11 1600



4200

LS. To Gy. Dur.

Sh. 1/4 Gy.

LS. wt. To. SI. 000.000

LS. 1/4 Gy. Dur.

STARK 4197-1586

Sh. 811.626 LS. DK. B1. V. SI. Foss.

Sh.

LS. 1/4 Gy. Dur. SI. Foss. SI. Chit.

LS. wt. Orange V. Chit.

LS. To Gy. Dur. SI. A

HUSHPOCKNEY 4237-1626

Sh. 811.626

Sh. 6x1/4 Gy.

LS. To SI. 000. Foss. SI. Chit.

A. Wt.

LS. To Gy. Dur. SI. Pol. 000.000

LS. To wt. SI. Chit.

B/KC 4279-1668

Sh. G.

Ls. To. w. Si. Foss. SIA

Sh. Blue. G.

MARMATON 4304-1693

Ls. To. Lly. Dal.

Sh. R. L. G.

Ls. To. G. SIA

A. G.

Ls. L. G. S. Foss. Colentic

Ls. w. l. Si. Foss. S. Chly.

Sh. G. G.

Ls. To. G. SIA

Sh. G. G. G.

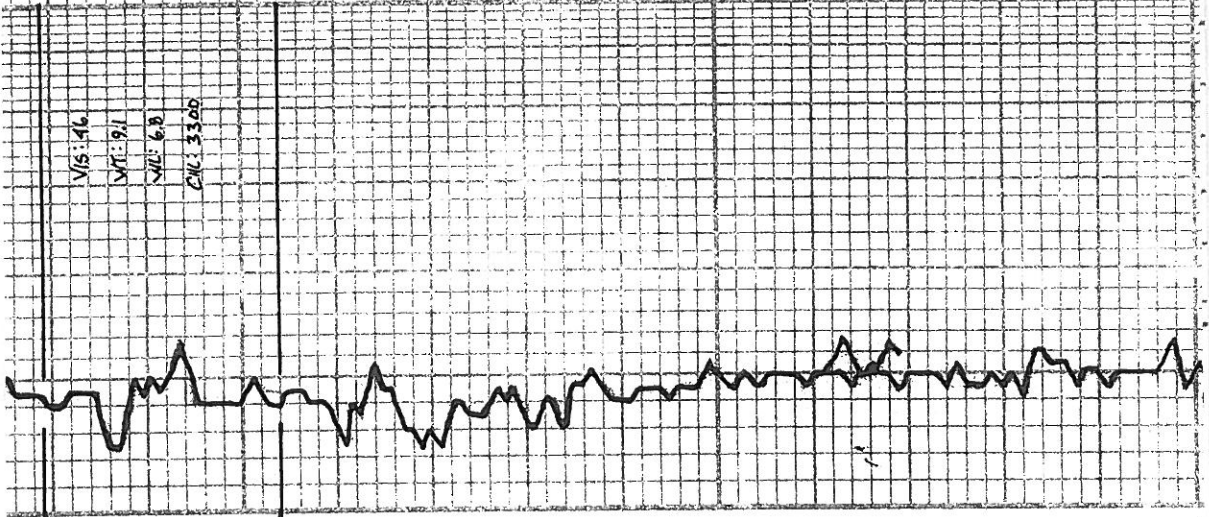
Ls. w. l. Si. Foss. SIA

VIS: 46

WT: 9.1

VAL: 6.8

CHL: 3300



4300

4400



