

# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-884-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE \* 1 YORK 31 D

FIELD WILDCAT

LOCATION 1760' FSL 1/2 1610' FEL

SEC 31 TWP 15s RGE 30w

COUNTY Gove STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

SPUD 12-29-15 COMP 1-8-16

RTD 4555 LTD 4557

MUD UP 3404 TYPE MUD CHEMICAL

ELEVATIONS

KB 2758

DF

GL 2753

Measurements Are All From 2758 KB

CASING

SURFACE 8 5/8" @ 348'

PRODUCTION

ELECTRICAL SURVEYS

Dual IND., DEN-S., Micro

SAMPLES SAVED FROM 3400 TO 4555

DRILLING TIME KEPT FROM 3300 TO 4555

SAMPLES EXAMINED FROM 3400 TO 4555

GEOLOGICAL SUPERVISION FROM 3500 TO 4555

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2187+571	2189+569
B/ANH.	2217+541	2220+538
STOTLER	3417-659	3418-660
HEEBNER	3794-1036	3795-1037
LANSING	3836-1078	3833-1075
STARK	4100-1342	4100-1342
MARMATON	4208-1450	4205-1447
FORT SCOTT	4353-1595	4351-1593
CHESSOKEE	4378-1620	4377-1619
MISSISSIPPI	4496-1738	4495-1737



REMARKS

12-29-15, SPUD  
12-30 @ 351'  
12-31 @ 1592'  
1-1 @ 2645'  
1-2 @ 3308'  
1-3 @ 3850'  
1-4 @ 4090'  
1-5 @ 4120'  
1-6 @ 4307'  
1-7 @ 4450'  
1-8 @ 4555'

API: 15-063-22280

### LEGEND

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

SHOED1-11

DRILLING TIME IN MINUTES  
PER FOOT

Rate of Penetration increases

DEPTH  
2150  
2200  
2250

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 2187+569

B/ANH. 2220+538



3300

3400

3500

Wt 9.6  
CAL 11500

Displaced @ 3400

Samples are tagged

SCOTLER 3418-660

65- wt. Post

65- wt. Foss. Caliche

65- wt. Hg. N.S.C. Chalk

Sh. G. 119

65- wt. Sh. Foss. Sh. A.

Sh. G. 119

65- G. Dm.

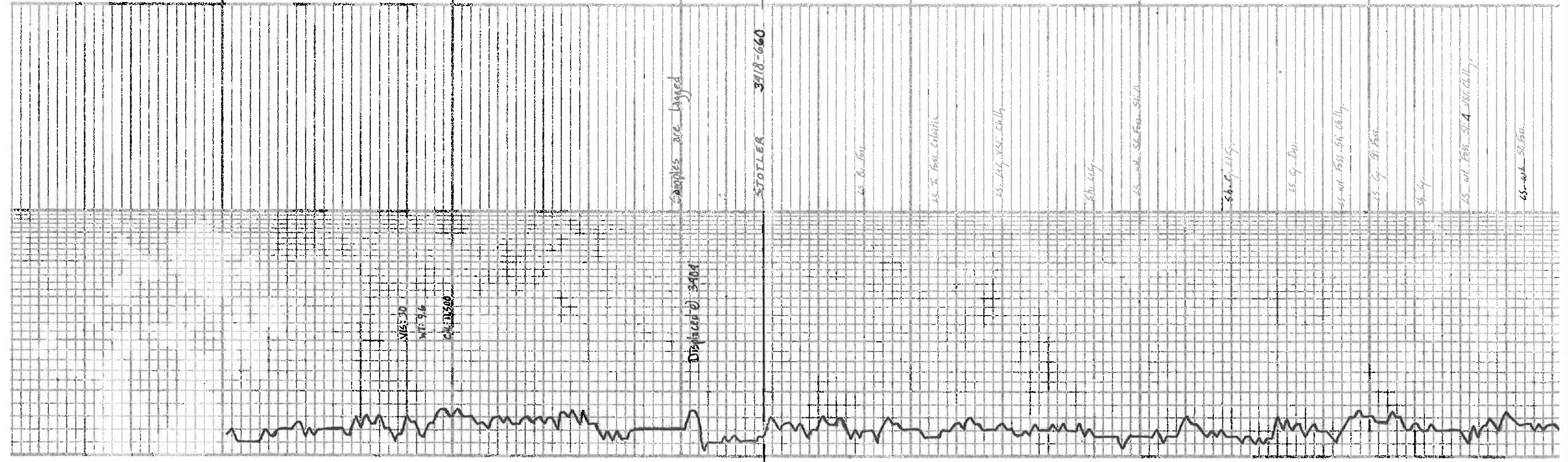
65- wt. Foss. Sh. Chalk

65- G. Sh. Foss.

Sh. G.

65- wt. Foss. Sh. A. N.S.C. Chalk

65- wt. Sh. Foss.









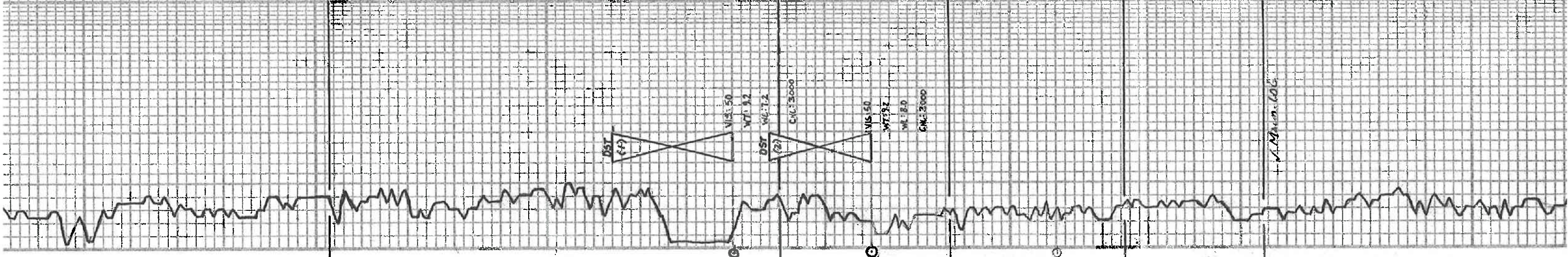
65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
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 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.

**MUNCIE CREEK 4003-1245**  
 Sh. Blk. Carb.  
 65. Bl. Carb. V. Sil. Foss. Calcite  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.

**STARK 4100-1342**  
 Sh. Blk. Carb.  
 65. Bl. Carb. V. Sil. Foss. Calcite  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.

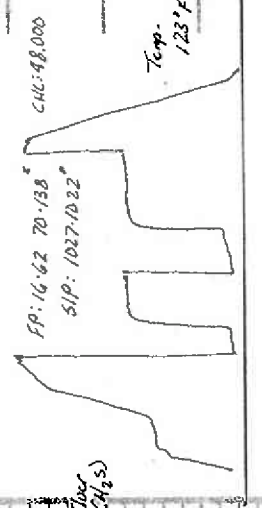
**HURDICKNEY 4137-1379**  
 Sh. Blk. Carb.  
 65. Bl. Carb. V. Sil. Foss. Calcite  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.

**MARMATON 4205-1447**  
 Sh. Blk. Carb.  
 65. Bl. Carb. V. Sil. Foss. Calcite  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.  
 65. wt. Sil. Foss. Sil. Chalk  
 65. To 114. 800. 3rd. 100 ft. Dull thin. Elms.



4000  
 4100  
 4200

**DST (1) 4064-4090**  
 1<sup>st</sup> OPEN: Bottom bucket 25 min. 88: None  
 2<sup>nd</sup> OPEN: " " 37 " 88: "  
 30-45-45-60  
 Rec. 270' MCW w/ spots Sil (157 M. 85% W)



**DST (2) 4098-4120**  
 1<sup>st</sup> OPEN: Bottom bucket 3 min. 88: None  
 2<sup>nd</sup> OPEN: " " 4 " 88: "  
 30-45-45-60  
 Rec. 1760' 3 MW (101 M. 90% W)

