

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE #1-29 SOFT TAIL

FIELD LUNDGREN

LOCATION 1285' ESL & 2050' FWL

SEC 29 TWP 14s RGE 29W

COUNTY GOVE STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

SPUD 12-7-13 COMP 12- -13

RTD 4400 LTD 4399

MUD UP 3200 TYPE MUD CHEMICAL

ELEVATIONS

KB 2614

DF

GL 2609

Measurements Are All From 2614 KB

CASING

SURFACE 8 5/8" @ 348'

PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS

DUAL IND. DENS-N., MICRO

SAMPLES SAVED FROM 3400 TO 4400

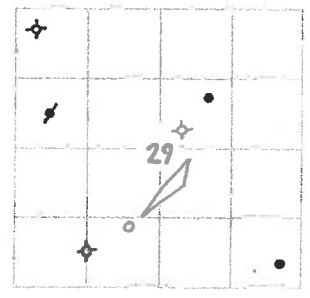
DRILLING TIME KEPT FROM 3150 TO 4400

SAMPLES EXAMINED FROM 3400 TO 4400

GEOLOGICAL SUPERVISION FROM 3500 TO 4400

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2022+592	2020+594
B/ANH.	2051+563	2054+560
STOTLER	3262-648	3265-651
HEEGNER	3632-1018	3634-1020
LANSING	3668-1054	3668-1054
STARK	3915-1301	3916-1302
MARMATON	4009-1395	4014-1400
FORT SCOTT	4164-1550	4162-1548
CHEROKEE	4188-1574	4190-1576
MISSISSIPPI SPERGEN	4268-1654	4271-1657



REMARKS

API: 15-063-22164

12-7-13 SPUD  
 12-8 @ Fringe Up 12-19 @ 4400  
 12-9 @ 351'  
 12-10 @ 565'  
 12-11 @ 2100'  
 12-12 @ 2878'  
 12-13 @ 3350'  
 12-14 @ 3780'  
 12-15 @ 3910'  
 12-16 @ 4060'  
 12-17 @ 4175'  
 12-18 @ 4284'

LEGEND

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



REMARKS

SAMPLE DESCRIPTIONS

DEPTH

LITHOLOGY

ANHYDRITE 2020+594

R-Ann 01-21-13

SHOE01-06

3150

3200

STOTLER 3265-651

3300

VIS 48

WT: 8.5

Vol: 8.8

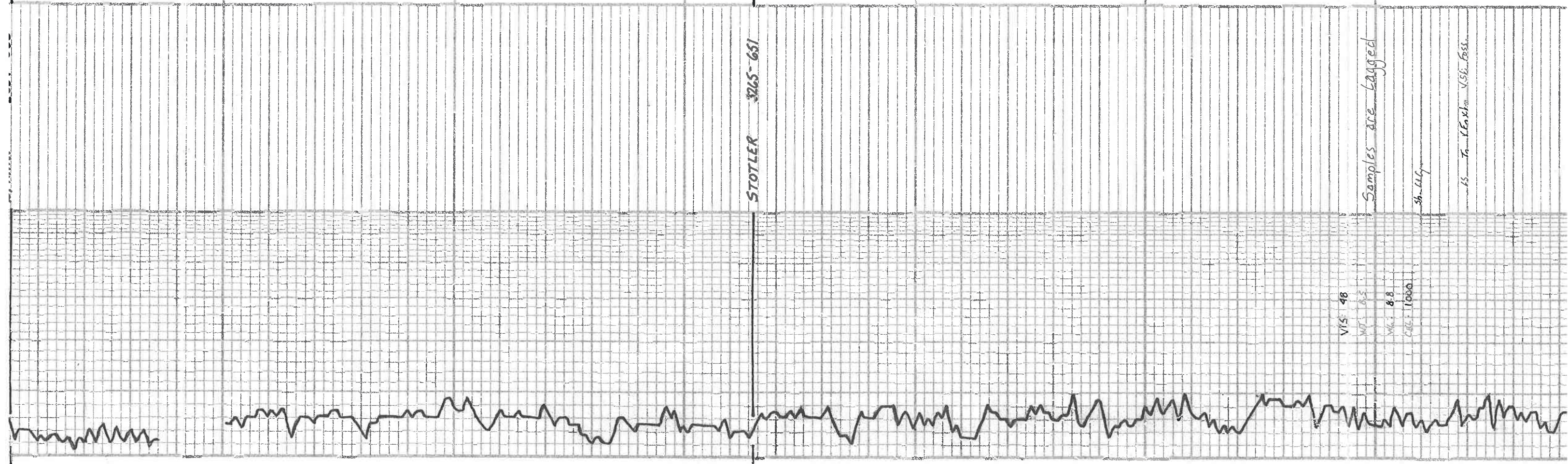
Calc: 1000

Samples are tagged

Sh. 116

15 To 16000 VIS. 1000

3400



LS. wt. 44g. Foss. Calcite.

Sh. 44g. Silty

LS. To. 11.00.00. Sil. A

LS. To. Br. Sil. A. VSI. Foss.

LS. wt. 44g. Sil. 00.00.00.

Sh. Gy. Silty

LS. To. wt. 11.00.00. Sil. A

LS. wt.

LS. To. Sil. Foss. Sil. A

LS. To. 44g. Foss. Calcite.

LS. To. wt. 11.00.00. Sil. A

LS. To. gy. Foss. Calcite

LS. To. wt. Sil. Foss. Sil. A. P. V. gy. p. DE. R. Br. Sil. 7. to. No. Floor. No. 00.00.

HEEBNER 3639-7020

Sh. Brk. Carb.

Sh. 44g.

TORONTO

LS. wt. To. Sil. 68. Sil. A. P. V. gy. p. 00.00.00. Sil. 7. to. No. Floor. No. 00.00.

LANSING 3668-1059

LS. To. wt. 00.00. Sil. A

LS. To. 00.00. Sil. A. Dnl.

Sh. 44g.

LS. wt. 44g. Sil. Foss. P. V. gy. p. DE. R. Br. Sil. 7. to. No. Floor. No. 00.00.

LS. To. gy. VSI. Foss.

Sh. 74g. VSI. Silty

LS. wt. Sil. Foss. Calcite

LS. To. 44g. Du. VSI. Chit. VSI. Foss.

LS. To. 44g. Sil. Foss. P. V. gy. p. DE. R. Br. Sil. 7. to. No. Floor. No. 00.00.

LS. To. gy. Shool. Foss. P. V. gy. p. DE. R. Br. Sil. 7. to. No. Floor. No. 00.00.

LS. wt. chit.

3500

3600

3700

3800

3900

4000

4100

MUNCIE CREEK 3828-1219

LS. Blk. Carb. VSI. Carb. Sh. Blue Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

STARK 3916-1302

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

HUSHBUCKNEY 3992-1335

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

B/KC 3982-1375

LS. Blk. Carb. VSI. Carb. No. Carb.

MARMATON 4014-1400

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

PAWNEE 4092-1478

LS. Blk. Carb. VSI. Carb. No. Carb.

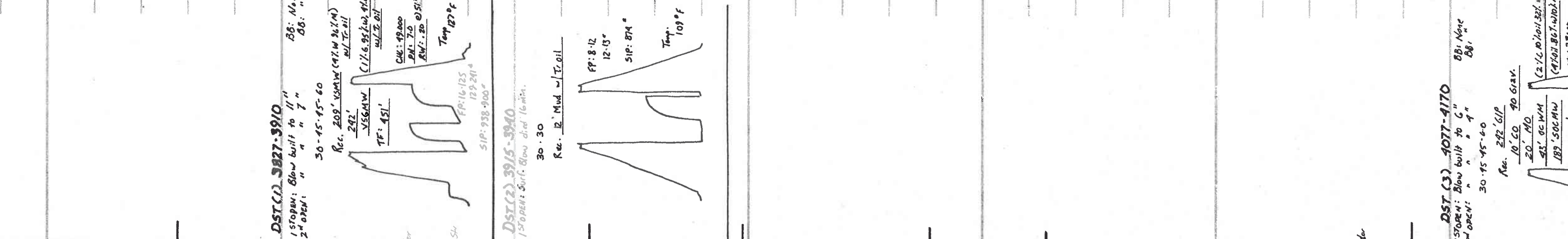
LS. Blk. Carb. VSI. Carb. No. Carb.

LS. Blk. Carb. VSI. Carb. No. Carb.

DST (1)

DST (2)

DST (3)



Rec. 209' VSMW (47.1W 36.1M) w/ Tr. oil

30-15-15-60

Rec. 209' VSMW (47.1W 36.1M) w/ Tr. oil

30-15-15-60

Rec. 209' VSMW (47.1W 36.1M) w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

30-30

Rec. 12' Mud w/ Tr. oil

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

15000

