

# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY RAYMOND OIL COMPANY, INC.

LEASE # 1 SAWERS-DOWNING-HARK UNIT

FIELD WILDCAT

LOCATION 133' ESL 1/4 2397' FWL

SEC 17 TWP 4S RGE 37W

COUNTY CHEYENNE STATE KANSAS

CONTRACTOR L.D. DRILLING, INC.

SPUD 10-24-17 COMP 11-4-17

RTD 5155 LTD 5140\*

MUD UP 3502 TYPE MUD CHEMICAL

SAMPLES SAVED FROM 3700 TO 5155

DRILLING TIME KEPT FROM 3700 TO 5155

SAMPLES EXAMINED FROM 3700 TO 5155

GEOLOGICAL SUPERVISION FROM 4000 TO 5155

GEOLOGIST ON WELL Kim B. SHOEMAKER

### ELEVATIONS

KB 3462

DF \_\_\_\_\_

GL 3457

Measurements Are All  
From 3462 KB

### CASING

SURFACE 8 5/8" @ 387'  
PRODUCTION \_\_\_\_\_

### ELECTRICAL SURVEYS

Dual Ind, Dens - N. / Mils

FORMATION TOPS	LOG	SAMPLES
ANKYDRITE	3228 + 254	3230 + 232
B/ANL	3267 + 195	3270 + 192
HEGNER	4296 - 834	4299 - 837
LANSING	4350 - 888	4350 - 888
B/KC	4611 - 1149	4610 - 1148
PAWNEE	4740 - 1278	4737 - 1275
FORT SCOTT	4792 - 1330	4792 - 1330
CHEROYE	4818 - 1356	4818 - 1356
MISSISSIPPI	5048 - 1586	5050 - 1588

17					

### REMARKS

- 10-24-17 SPUD
- 10-25 @ 390'
- 10-26 @ 1920'
- 10-27 @ 2860'
- 10-28 @ 3537'
- 10-29 @ 3883'
- 10-30 @ 4284'
- 10-31 @ 4538'
- 11-1 @ 4585'
- 11-2 @ 4925'
- 11-3 @ 5155'
- 11-4 @ 5155'

API: 15-023-21471

\*: LTD was 15' shallow (fill)  
Tops were 1-2' diff. than Log

### LEGEND









Sh. Silty. Lt Blue-Gy.

Sh. Sil. ch. Lt Blue-Gy. Fa. V. Fa. G. Sil. Rd.

LS. wt. chky.

LS. Fa. Foss. Calcitic

Sh. Rd. Bl. Sdy. Silty.

Sh. Rd. Sdy.

Sh. Rd.

LS. Tn. G. Sil. Foss. Foss.

Δ Orange

LS. wt. Purple chky.

Sh. Sdy. silty.

Sh. Rd. Silty.

LS. wt. Si. Foss. Chky.

Sh. Rd.

LS. Lt. G. V. Si. Foss.

Sh. Rd.

3800

3900

- BIT TRIP @ 3883

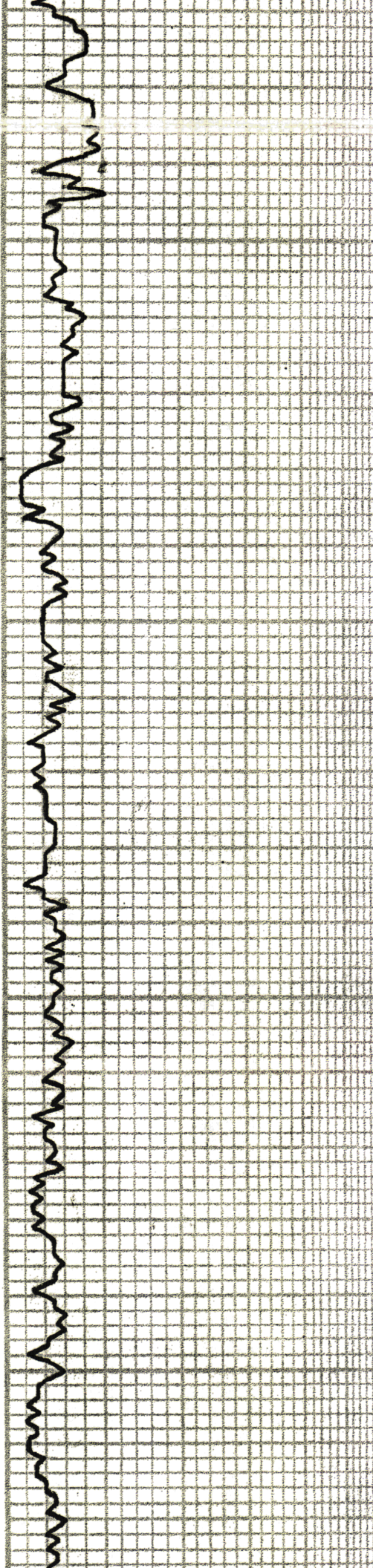
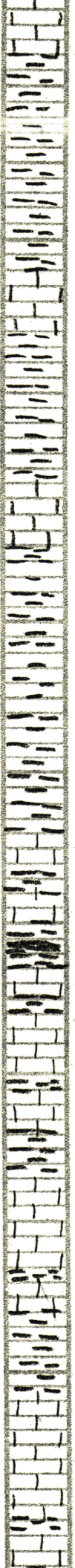
VIS: 67

WT: 8.9

WL: 8.8

CHL: 3000





LS. Gry. Sil Foss.

Sh. DK G.

Sh. Rd.

LS. Bn DK Bl V Sil Foss.

Sh. Rd.

LS. w/ Sil Foss. LS. w/ V. P. Sil. Sue.

LS. Bl G. Sil Foss.

Sh. Rd.

Sh. DK G.

LS. G. Sil Foss.

Sh. DK G. BLK.

LS. Tn Sil Foss.

Sh. L G. G. Silby.

LS. w/ Sil Foss Sil Chlby.

Sh. Rd.

LS. w/ Sil Foss Foss. Co. lentic.

LS. w/ Sil Foss. w/ BLK dd. Str.

4000

4100



Sd. Cl. G. Fa. G. Sub. Rd.

Sh. Rd.

Ls. w/ Pale. sh.

Ls. Ta. f. Sh. Foss.

Sh. Rd. Lt. Rd.

Ls. Ta. w/ Foss.

Sh. Rd.

Ls. w/ Sh. Foss. Sli. A

4200

Sh. Silty. G. G.

Ls. w/ Sli. Foss. Sli. Chly.

Ls. G. Sli. Foss.

Ls. G. Sli. Foss.

Sh. G. DK. G.

Sh. G.

Ls. Ta. w/ Foss. V. Sli. A

Ls. Ta. Sli. A

4300

**HEEBNER 4299 - 837**  
Sh. DK. G.

Ls. G. V. Sli. Foss. V. Sli. A

Sd. G. G. V. Fa. Fa. G. Sub. Rd.

VIS: 56 WT: 9.2  
WL: 8.0 CML: 2500

Sh. Silty. Pink s



LS. wt. Sli. Foss. w/ Blk. Tarry str.

Sh. Rd. DK Rd

**LANSING 4350-888**

LS. wt. Sli. Foss.

Sdy. sh. LG. V. Pale. Sul. Rd.

Sh. Rd.

LS. wt. LG. Sli. Foss. P. Vis. p. DK Rd. Blk. dd. Str.

Sh. Rd.

LS. wt. V. Sli. Foss. Sli. A

LS. LG. Dm.

Sh. L.

Sh. DK<sub>2</sub>

LS. Gy. Foss. P. Vis. p. DK Rd. S. Str. No odor

Sh. DK<sub>2</sub>

LS. Th. Foss. Sli. Calcitic

LS. Gy. Dm.

**MUNCIE CREEK 4472-1010**

Sh. Blk. Carb.

Sh. Rd. L.

LS. wt. LG. Sli. Foss. P. Vis. p. DK Rd. S. Str. VSSFD. No Floor. No odor

LS. wt. Sli. Foss.

LS. Gy. V. Sli. Foss. Sli. Calcitic

Sdy. sh. LG. V. Pale. Sul. Rd.

Sh. Rd.

DST (1)

V. L. 06

**DST (1) 4467-4555**

1<sup>st</sup> OPEN: Blow built to 1 1/4"

2<sup>nd</sup> OPEN: " " " 1/4"

30-60-45.75

Rec. 10' Mvd

FP: 1979 20-21'

SIP: 448-353'

Temp. 121°F

4400

4500



WL: 6.1 CHL: 2200

ls. Lt. G. V. Sil. Foss. V. Sil. Ch. L. 221271c

ls. wt. Sil. Foss. Sil. Ch. L.

**STARK 4554-1092**

V L O G

Sh. Rd.

ls. G. T. V. Sil. Foss. V. Sil. A

Sh. L. Lk.

Δ Dmpc

ls. wt. Sil. Foss. V. Sil. Ch. L.

**MUSHPUCKNEY**

V L O G

Sh. Blk Carb.

Vis: 68 WT: 8.7

WL: 8.0 CHL: 2400

ls. wt. G. Foss.

4600

**B/KC 4610-1148**

V L O G

Sh. L. G. Lk. Sdy. G. G. V. F. G. w/ Blk Flaky Str.

ls. L. G. V. Sil. Foss.

Sh. Rd. Silty

ls. G. V. Sil. Foss.

ls. Lt. G. Silty

Sh. L. G. Silty

Sh. Rd. G. Silty

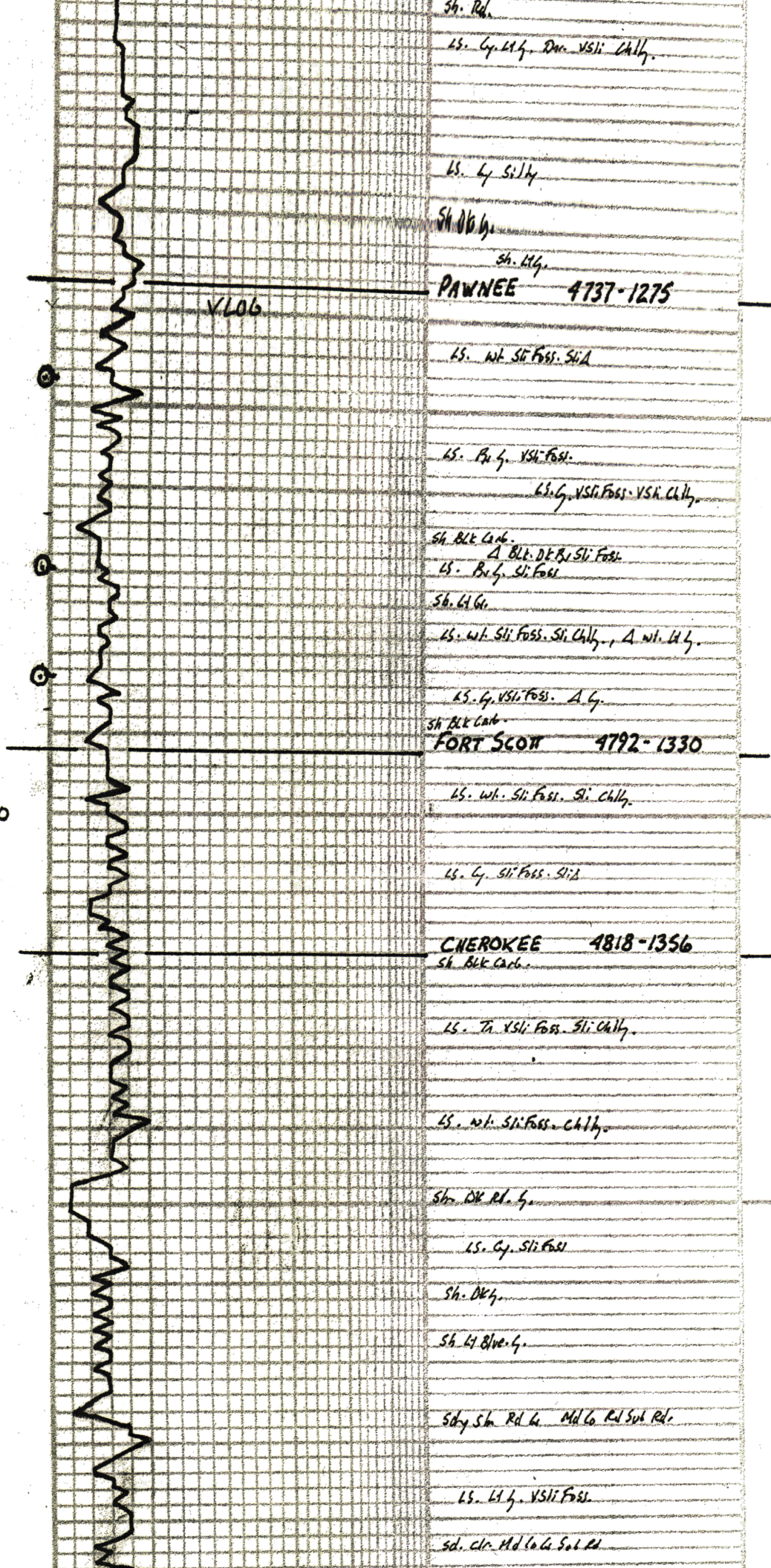
ls. Clr. Reel. Material w/ Pyrite spec.

Sh. Rd.

4700

ls. G. Dnc.





Sh. Red.  
 ls. Gy. Lt. f. Dm. VSl. Chlly.

ls. Gy. Silty

Sh. Dk. G.

Sh. Lt. G.

**PAWNEE 4737-1275**

V.L.06

ls. wt. Sl. Foss. Sh. A

ls. Br. f. VSl. Foss.

ls. Gy. VSl. Foss. VSl. Chlly.

Sh. Blk Carb.

A Blk. Dk. Br. Sl. Foss.

ls. Br. f. Sl. Foss.

Sh. Lt. G.

ls. wt. Sl. Foss. Sl. Chlly., A wt. Lt. G.

ls. Gy. VSl. Foss. A G.

Sh. Blk Carb.

**FORT SCOTT 4792-1330**

4800

ls. wt. Sl. Foss. Sl. Chlly.

ls. Gy. Sl. Foss. Sl. A

**CHEROKEE 4818-1356**

Sh. Blk Carb.

ls. Th. VSl. Foss. Sl. Chlly.

ls. wt. Sl. Foss. Chlly.

Sh. Dk. Rd. G.

ls. Gy. Sl. Foss.

Sh. Dk. G.

Sh. Lt. Blue. G.

Stry. Sh. Rd. G. Mid Co. Rd. Sub. Rd.

ls. Lt. G. VSl. Foss.

sd. clr. Mid Co. G. Sub. Rd.



4900

LS. wt. Sdy.

Sh. Yellow. G.

Sdy. Sh. Blue. G.

Sdy. wt. Cl. Lt. Blue. Md. Co. Rd. Sub. Rd.

VIS: 58 WT: 8.9

WL: 8.8 CNL: 2300

Sd. Yellow. Md. Co. G. Rd. w/ Fe spots.

Sh. Rd.

Sd. wt. Cl. Md. Co. G. Rd. Sub. Rd.

Sh. Lt. Blue. G.

Sd. wt. Cl. Md. Co. G. Sub. Rd.

Sh. Lt. Blue. Macrom.

5000

Sdy. Sh. Lt. Blue. Md. Co. G. Rd. Sub. Rd.

Sh. Lt. G. DE G.

Sh. Lt. G. w/ Ab. G.

MISSISSIPPI 5050-1588

Dol. G. Fa. G.

Sh. Lt. G.

Dol. G. & Fa. G.

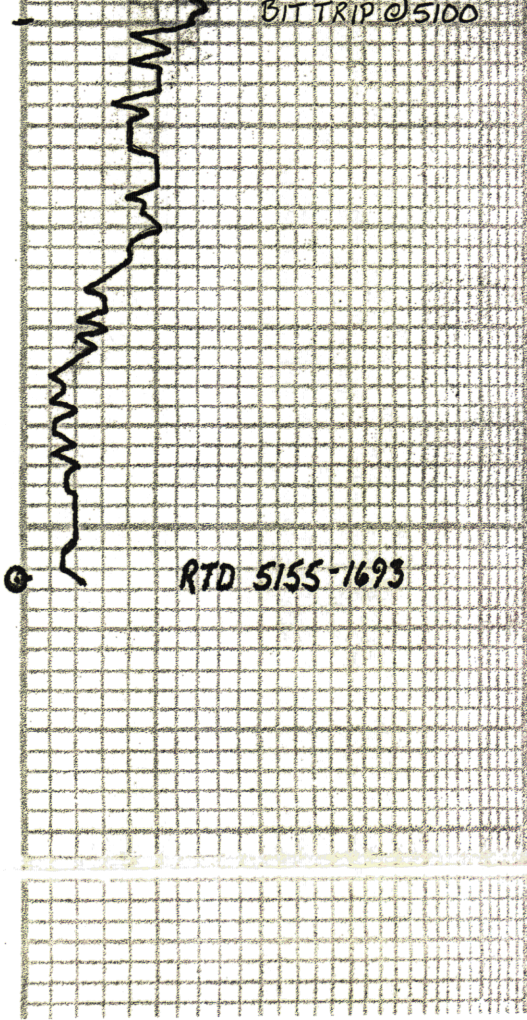
Dol. G. & Fa. G.

LS. G. Sh. Foss. Sh. A



5100

BITTRIP @ 5100



RTD 5155-1693

LS. wt. Fa. Foss. Calastic

LS. Tan. Sl. Foss. Calastic

Dol. wt. V Foss

Δ wt. Lys. Fresh Cut

Δ wt. Gy. Sl. Foss.