

**KIM B. SHOEMAKER**  
 CONSULTING GEOLOGIST  
 318-684-9709 \* WICHITA, KS

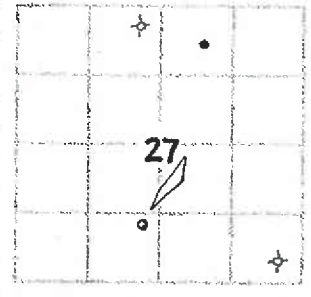
**GEOLOGIST'S REPORT**  
 DRILLING TIME AND SAMPLE LOG

COMPANY **L. D. DRILLING, INC.**  
 LEASE **1-27 MAULER TRUST**  
 FIELD **WILDCAT**  
 LOCATION **1172' FSL & 2270' FWL**  
 SEC **27** TWP **18s** RGE **14w**  
 COUNTY **BARTON** STATE **KANSAS**  
 CONTRACTOR **L. D. DRILLING, INC.**  
 SPUD **9-21-16** COMP **9-28-16**  
 RFD **3620** LTD **3622**  
 MUD UP **2691** TYPE MUD **CHEMICAL**

ELEVATIONS  
 KB **1897**  
 DT  
 GL **1892**  
 Measurements Are All  
 From **1897 KB**  
 CASING  
 SURFACE **8 5/8" @ 845'**  
 PRODUCTION **5 1/2" @**  
 ELECTRICAL SURVEYS  
 DUAL IND. DENS.-N. MICRO,  
 SONIC

SAMPLES SAVED FROM **2800 TO 3620**  
 DRILLING TIME KEPT FROM **2800 TO 3620**  
 SAMPLES EXAMINED FROM **2800 TO 3620**  
 GEOLOGICAL SUPERVISION FROM **3000 TO 3620**  
 GEOLOGIST ON WELL **KIM B. SHOEMAKER**

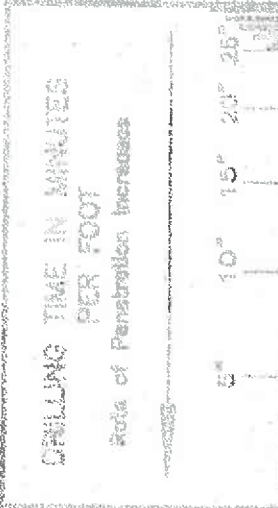
FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	844+1053	844+1053
TOPEKA	2878-981	2890-993
HEEBNER	3118-1221	3120-1223
BROWN LIME	3200-1303	3201-1304
LANSING	3210-1313	3210-1313
B/KC	3418-1521	3417-1520
ARBUCKLE	3536-1639	3536-1639



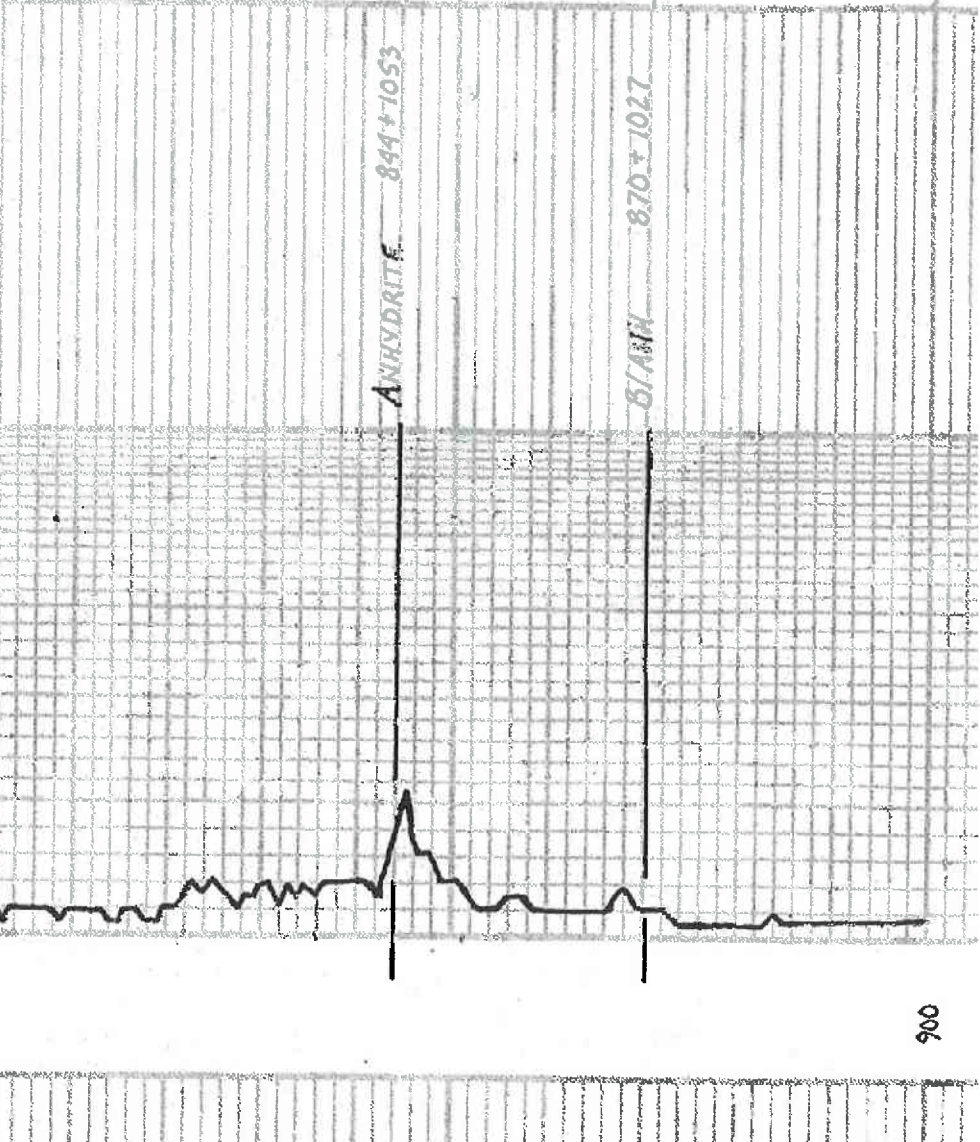
REMARKS  
 API: 15-009 - 26116  
 9-21-16 SPUD  
 9-22 @ 825'  
 9-23 @ 1260'  
 9-24 @ 2260'  
 9-25 @ 2955'  
 9-26 @ 3295'  
 9-27 @ 3420'  
 9-28 @ 3620'

**LEGEND**

- Anhydrite
- Soil
- Sandstone
- Shale
- Carb. sh.
- Limestone
- Oil shale
- Chert
- Dolomite



LITHOLOGY  
 SAMPLE DESCRIPTIONS  
 REMARKS





3100

3200

3300

3400

HEEBNER 3120-1223

Sh. 11G.

LS. wt. Sh. Foss. SHA

LS. wt. SHA

Sh. Rd.

Sh. 11G.

Sh. 11G. 5014

Sh. 11G. 6

BROWN LIME 3201-1304

LS. Sh. Foss.

LANSING 3210-1313

LS. wt. 11G. 1012.65

LS. wt. 11G. 1012.65

LS. wt. 11G. 1012.65

Sh. 11G.

Sh. 11G.

LS. Tool. Sh. Foss. 1012.65

64. 04.

LS. Tool. Sh. Foss. 1012.65

LS. 11G. Foss.

LS. wt. 11G. 1012.65

LS. 11G. 1012.65

LS. Tool. 1012.65

LS. wt. Chly.

LS. Ta. R. SHA

LS. Tool. 1012.65

LS. 11G. 1012.65

LS. Tool. 1012.65

LS. wt. 11G. 1012.65

LS. 11G. 1012.65

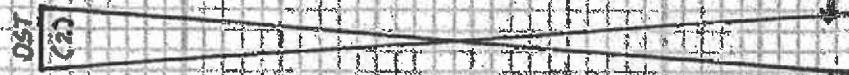
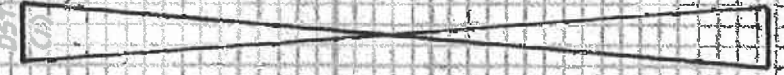
LS. Tool. 1012.65

LS. 11G. 1012.65

6/KC 3117-1520

3000-3100

3100-3200



DST (1) 3217-3285

1st OPEN: Bottom bucket 2 min. 88: None 88: 1/2"

2nd OPEN: " " " " GTS 14 min. 88: " " 30-45-45-60

Rec. 22' 558 CO 29 GAV @ 60"

TF: 538

FP: 48-185 160-244 x

SIP: 946-943 #

Temp: 106°F

DST (2) 3335-3420

1st OPEN: Bottom bucket 24 min. 88: None 88: 1/2"

2nd OPEN: " " " " GTS 14 min. 88: " " 30-45-45-60

Rec. 12' 50 29 GAV @ 60"

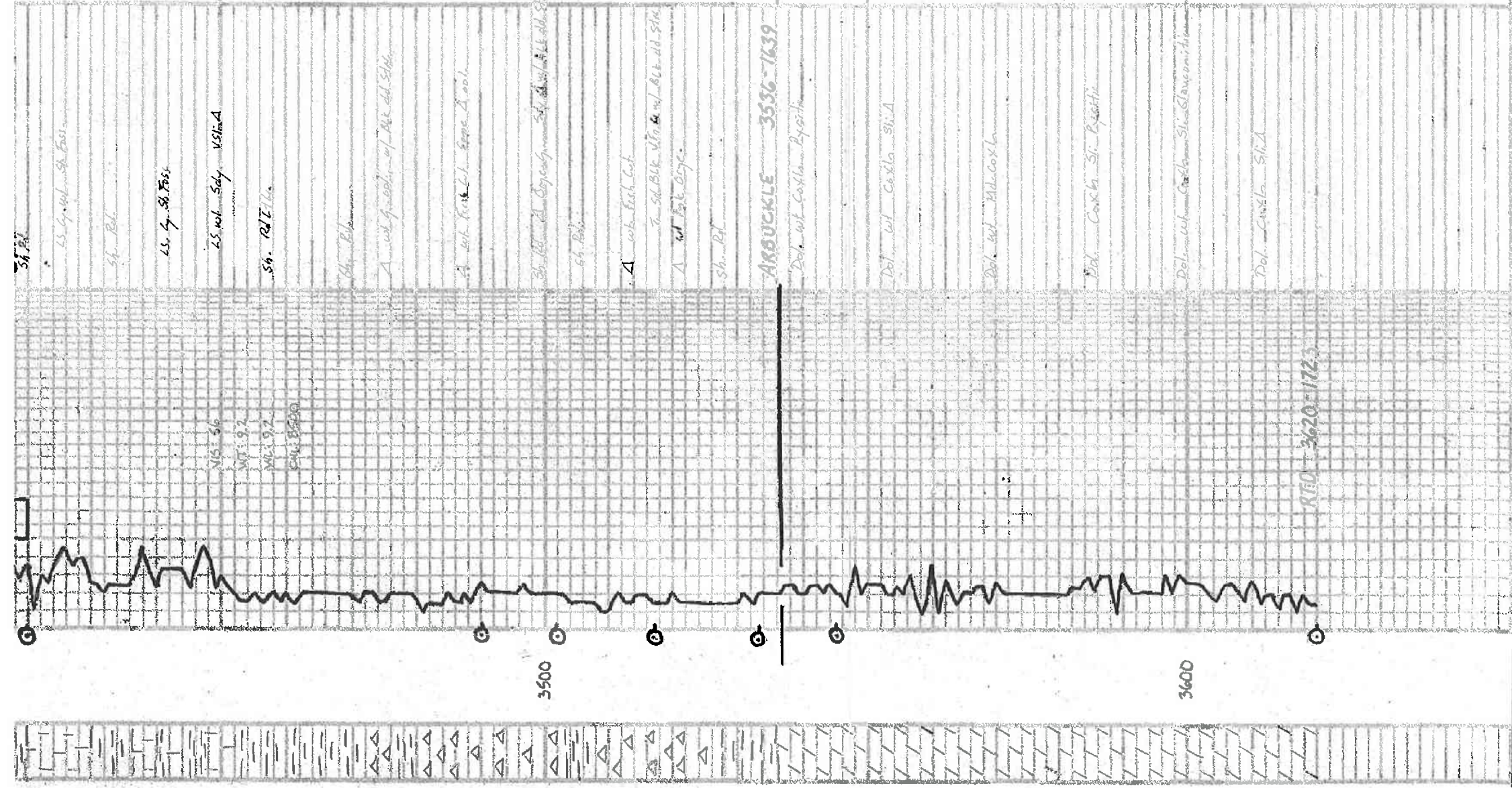
TF: 119

FP: 14-33

SIP: 1102-1077

Temp: 104°F

Tool Sample: 5' 10.7. 92' 1.4. 37.4



3572

LS. G. w/ sh. base

sh. Bl.

LS. G. sh. base

LS. w/ sh. base

sh. Bl.

NS 56

WT 92

ML 92

Calc 8200

sh. Bl.

A. w/ sh. base

A. w/ sh. base

sh. Bl. A. w/ sh. base

sh. Bl.

A. w/ sh. base

sh. Bl. w/ sh. base

A. w/ sh. base

sh. Bl.

ARBUCKLE 3536-7639

Dol. w/ Coxla. Pyrite

Dol. w/ Coxla. sil. A

Dol. w/ Mid. Coxla.

Dol. Coxla. Sil. Pyrite

Dol. w/ Coxla. Sil. Pyrite

Dol. Coxla. Sil. A

RFID 3620-1723

3500

3600