

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

313-833-8709 + WILMTEXS

GEOLOGIST'S REPORT

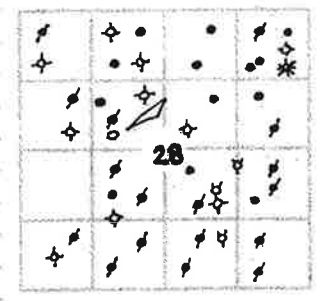
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
 WELL # 1-28 ROUS  
 FIELD KRAFT-PRUSA  
 LOCATION 2310' FNL + 1650' FWL  
 SEC. 28 TWP. 16s RGE. 11w  
 COUNTY BARTON STATE KANSAS  
 CONTRACTOR L. D. DRILLING, INC.  
 START 2-19-18 STOP 2-26-18  
 WTD. 3460 LTD. 3460  
 MUD UR. 2598 TYPE MUD CHEMICAL

CLIENTS  
 NO. 1923  
 DATE 1918  
 NO. APPROVED BY AP  
 DATE 1923 KB  
 CASING  
 SURFACE 8 5/8" @ 413'  
 PENETRATION 5 1/2" @  
 ELECTRICAL SURVEYS  
 DUAL IND., DENS-N. MICRO

SAMPLES SAVED FROM 2600 TO 3460  
 DRILLING TIME KEPT FROM 2600 TO 3460  
 SAMPLES EXAMINED FROM 2600 TO 3460  
 GEOLOGICAL SUPERVISION FROM 3000 TO 3460  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	772+1151	770+1153
B/ANH.	798+1125	782+1141
TOPEKA	2680-757	2680-757
HEESNER	2970-1047	2971-1048
BROWN LIME	3066-1143	3066-1143
LANSING	3080-1157	3082-1159
B/KC	3323-1400	3323-1400
ARBUCKLE	3348-1425	3352-1429



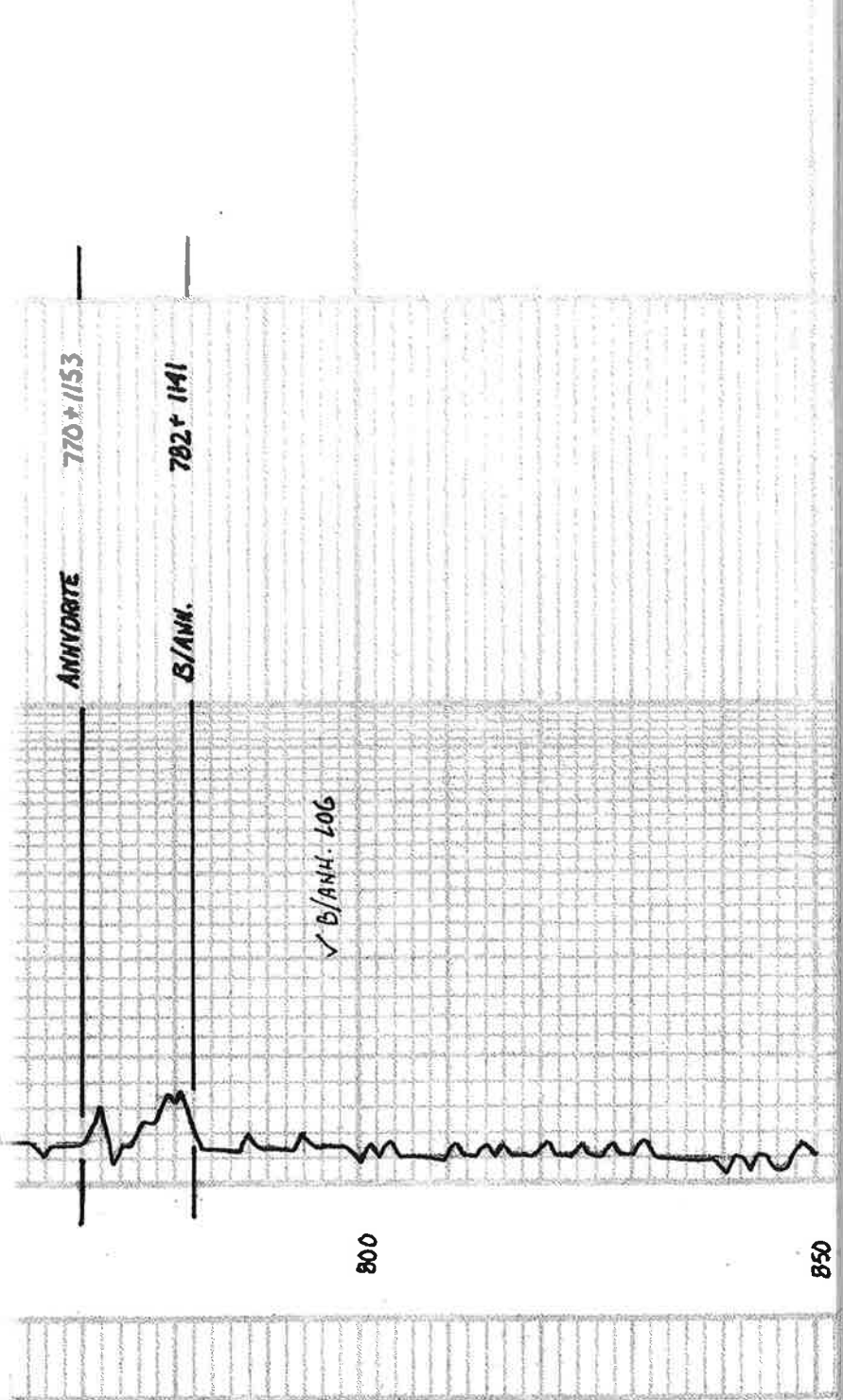
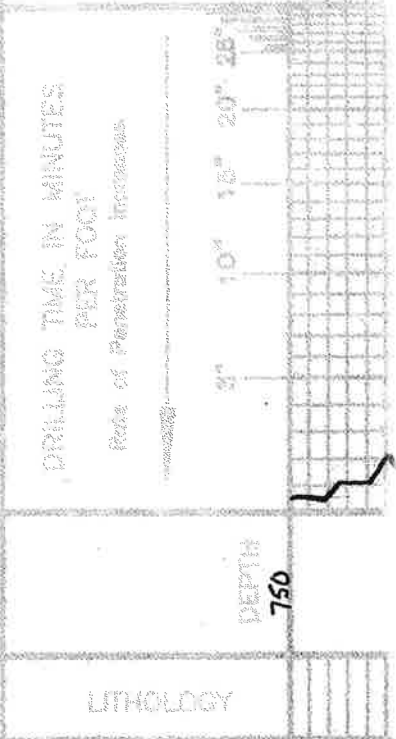
API: 15-009-26200

REMARKS

2-19-18 SPUD  
 2-20 @ 413'  
 2-21 @ 1535'  
 2-22 @ 2251'  
 2-23 @ 2930'  
 2-24 @ 3310'  
 2-25 @ 3356'  
 2-26 @ 3460'

LEGEND

- Anhydrite
- Sandstone
- Shell
- Carb. sh.
- Limestone
- Shale
- Gypsiferous



SHOEG1-11

850

2600

2700

2800

Samples are lagged

sh. lig.

sh. lig. silty

ls. 7. lig. vs. foss.

ls. 7. wt. foss. sh. A

ls. 7. sh. foss.

sh. lig. 'Gummy'

TOPEKA 2680-797

ls. 7. wt. sh. foss. sh. A

ls. lig. vs. chly.

ls. 7. lig. sh. foss.

ls. 7. sh. sh. foss.

sh. g.

ls. wt. chly.

ls. wt. ool. foss. chly.

ls. g. sh. foss.

ls. wt. sh. foss. chly.

sh. dk. g.

sh. sh. dk. g.

ls. lig. sh. foss. w/ dk. g. foss.

sh. g. dk.

ls. 7. sh. sh. foss. sh. A

ls. g. sh. foss.

sh. dk. g.

ls. wt. lig. sh. foss. sh. chly.

Howard



2900

3000

3100

3200

VIS: 50  
WT: 8.9  
ML: 10.2  
CL: 7000

TORONTO

DOUGLAS

ls. wt. 4.5, Si. Foss. Sil. Chalky  
 Sh. Blue  
 ls. 4.5, Si. Foss. w/ 0.5 Foss.  
 ls. Tr. wt. 4.5, ad. Calcitic Sil. Chalky  
 ls. wt. Sil. Foss. Sil. Chalky  
 ls. wt. 4.5, Foss. Sil. Chalky  
 ls. 4.5, V. Sil. Foss.  
 ls. Tr. 4.5, V. Sil. Foss.  
 ls. Tr. 4.5, w/ 0.5 Foss.

HEBNER 2971-1048

Sh. Blue-Green  
ls. G. V. Sil. Foss

Sh. Lt. Blue  
ls. wt. Sil. Foss. Sil. A. P. in p  
Lt. Bl. Sp. Sil. V. Sil. Foss. 6d. Flour. No odor.  
ls. wt. Sil. A.  
Sh. Lt.

Sh. Lt. Blue-G.

Sh. Lt. G. Silly

Sh. Lt. G. Silly

Sh. Lt. G. Silly

BROWN LIME 3066-1113

ls. 8.5, Sil. Foss.

LANSING 3082-1159

Sh. Lt. G.  
ls. wt. V. Sil. Foss. Sil. A. P. in p  
Lt. Bl. Sp. Sil. Foss. No odor.

ls. wt. V. Sil. Foss. Sil. Chalky,  
A. Tr. G.

ls. G. Sil. Foss

Sh. Lt. Blue

ls. Tr. wt. 0.5, Sil. Foss.

ls. wt. Sil. Foss. Sil. Chalky.

Sh. G.

ls. Tr. Bl. Foss. Sil. A

ls. Tr. Foss. w/ 0.5 Foss.

Sh. Blue-G.

ls. wt. 4.5, V. Sil. Foss. Sil. A. P. in p  
Lt. Bl. Sp. Sil. Foss. F. Sp. Flour. V. F. odor.

ls. 4.5, V. Sil. Foss. Sil. Chalky.

ls. Tr. wt. 0.5, 0.5, 0.5

ls. Tr. wt. 0.5, Sil. Chalky

ls. G. V. Sil. A

ls. G. Dm.

13. Sp. VSI-A

15. Sp. Dh.

Sh. Blk

Sh. Rd

15. In G. VSI. Foss.

Sh. Sp. G.

15. R. Sh. A

15. wt. Slat chky.

15. wt. Slat Foss. Sh. A

15. wt. VSI. Foss. VSI. chky.

Sh. Blk

Sh. G.

15. wt. Foss. Sh. A  
15. wt. V. Slat Foss. VSI. Foss. Sh. A  
15. wt. VSI. Foss. VSI. chky. No floor  
15. wt. VSI. Foss. VSI. chky. No floor

15. Sp. Slat Foss. Sh. A

15. Sp. Slat Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A  
15. Sp. Slat Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

BINC 3323-1400 celador

Sh. Blk

15. wt. Slat Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

15. wt. R. Dh. Slat Foss. VSI. Foss. Sh. A

Sh. G.

ARBuckle 3352-1429

Dol. wt. Coxh. Dh.  
Dol. wt. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

Dol. wt. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

Dol. wt. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

Dol. wt. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

Dol. wt. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

Dol. wt. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

Dol. In Slat. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

Dol. In Slat. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

Dol. In Slat. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

Dol. In Slat. Coxh. Dh. VSI. Foss. Sh. A. P. V. V. Slat Foss. VSI. Foss. Sh. A

RTD 3460-1537

DST (1) 3282-3330

1-5' EXT: BOH 17 to 17 1/4"

2nd OPEN: No Blow

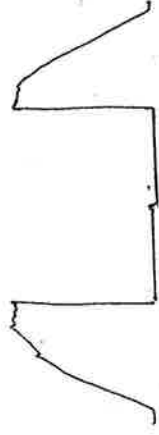
30-30-30-30

Re. 1' V30CM (1/1 oil)

FP: 10-12 # 12-15 \*

SIP: 28-19 \*

Temp: 98°



DST (2) 3312-3356

1st OPEN: Pullon Bucket (min.)

2nd OPEN: " " 6 1/4"

30-45-45-60

Re. 95' 6.1 P. 63' CO 48.01MK @ 60°F

283' SWHO (57'M. 100' W. 88-2.012)

504' SWHO (57'M. 87.2' W. 79% oil)

756' SWHO (57'M. 80.7' W. 30% oil)

1134' SWHO (57'M. 86.2' W. 27.01)

TP: 2835'

FP: 506-1077 1080-4

SIP: 1097-1105 \*

Temp: 110°F

CR: 15,000

RW: .79 @ 59°F

PH: 7

Total Sample:  
(88% oil, 15% W. S. M)

