

# KIM B. SHOEMAKER

## CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

### GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE #1-9 LINN 'A'

FIELD \_\_\_\_\_

LOCATION 1850' FSL & 2310' FWL

SEC 9 TWP 20s RGE 21w

COUNTY NESS STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

SPUD 1-2-14 COMP 1-11-14

RTD 4560 LTD 4562

MUD UP 3607 TYPE MUD CHEMICAL

ELEVATIONS

KB 2283

DF \_\_\_\_\_

GL 2278

Measurements Are All  
From 2283 KB

CASING

SURFACE 8 5/8" @ 719'

PRODUCTION 5 1/2" @ 153'

ELECTRICAL SURVEYS

DUAL IND., DENS.-N.

SAMPLES SAVED FROM 3700 TO 4560

DRILLING TIME KEPT FROM 3600 TO 4560

SAMPLES EXAMINED FROM 3700 TO 4560

GEOLOGICAL SUPERVISION FROM 4000 TO 4560

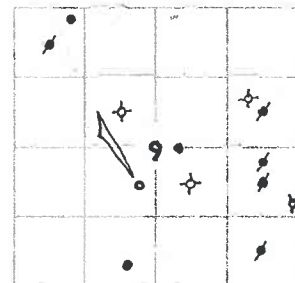
GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS

LOG

SAMPLES

|             |             |             |
|-------------|-------------|-------------|
| ANHYDRITE   | 1494 + 789  | 1498 + 785  |
| B/ANH.      | 1524 + 759  | 1528 + 755  |
| HEEBNER     | 3810 - 1527 | 3809 - 1526 |
| LANSING     | 3851 - 1571 | 3851 - 1571 |
| B/KC        | 4170 - 1887 | 4174 - 1891 |
| FORT SCOTT  | 4362 - 2079 | 4362 - 2079 |
| CHEROKEE    | 4381 - 2098 | 4380 - 2097 |
| MISS. OSAGE | 4466 - 2183 | 4465 - 2182 |



REMARKS

1-2 SPUD  
1-3 @ 727'  
1-4 @ 1280'  
1-5 @ 2230'  
1-6 @ 2853'  
1-7 @ 3420'  
1-8 @ 4000'  
1-9 @ 4405'  
1-10 @ 4471'  
1-11 @ 4560

API: 15-135-25714

### LEGEND



DRILLING TIME IN MINUTES  
PER FOOT  
Rate of Penetration Increases

DEPTH  
1450

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 1498 + 785

B/ANH. 1528 + 755

SHOE01-06

1550

3600

3700

3800

Samples are logged

Sh. Blk. Sil. Carb.  
ls. T. L. B. V. Sil. Foss.

Sh.

ls. T. L. B. Foss. Sil. A.

ls. T. L. B. Sil. Foss. Foss.

ls. Cr. Dn.

ls. wh. L. G. wh. Foss.

ls. wh. L. G. wh. Sil. Chalk.

ls. wh. V. Sil. Foss. Sil. Chalk.

ls. T. L. B. Foss. C. L. B.

HEEBNER 3809-1526

Sh. Blk. Carb. ls. G. Sil. Foss.

Sh. L. G.

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

ls. T. wh. Foss. wh. Sil. A.

Sh. L. B. wh. L.

LANSING 3854-1571

ls. T. wh. Sil. Foss. V. Sil. Chalk.

ls. T. L. B. Dn.

Sh. D. G.

Sh. L. G.

ls. wh. Chalk.

3900

4000

4100

4200

VIS: 53  
WT: 8.7  
WL: 8.0  
CH: 6.00

MARMATION

ls. wt. Sh. Foss. Caliche.

ls. wt. Foss. Sil. A

Sh. dk. ch. ls. To ch. V. Sil. Foss.

Δ wt. ch.

ls. To ch. Sil. Foss. Sil. A

ls. wt. ch. ch.

ls. wt. Sh. Foss. Sil. A

ls. wt. ch. ch.

ls. To ch. Sil. Foss. Sil. ch. ch.

ls. ch. ch. V. Sil. ch. ch.

Sh. dk. ch. ls. To ch. V. Sil. Foss. Caliche.

Sh. dk. ch.

ls. To wt. Sil. Foss. Sil. A

ls. To ch. V. Sil. A

Sh. dk. ch.

ls. To wt. Micro. wt. Sil. A

ls. To wt. V. Sil. Foss. Sil. ch. ch.

Sh. dk. ch.

ls. To wt. Sil. A

ls. To Sil. A

Sh. dk. ch.

ls. To ch. Sil. A V. Sil. Caliche.

Sh. dk. ch.

ls. To ch. Sil. Foss. Sil. A

Δ ch.

ls.

BIK 4174-1891

Sh. dk. ch.

Sh. dk. ch.

Sh. dk. ch.

Sh. dk. ch.

ls. To ch. Sil. Foss. Sil. A

Sh. dk. ch.

RTD 4560-2272