

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE # 2 BRYANT 'A'

FIELD CHASE - SILICA

LOCATION 450' FNL & 1650' EWL

SEC 25 TWP 20S RGE 11W

COUNTY BARTON STATE KANSAS

CONTRACTOR PETROMARK RIG 2

SPUD 6-13-14 COMP 6-20-14

RTD 3350 LTD 3348

MUD UP 2520 TYPE MUD CHEMICAL

ELEVATIONS

KB 1748

DF _____

GL 1743

Measurements Are All
From 1748 KB

CASING

SURFACE 8 5/8" @ 442'

PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS

DUAL IND, DENS-N, Micro

SAMPLES SAVED FROM 2600 TO 3350

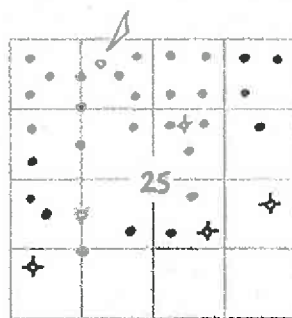
DRILLING TIME KEPT FROM 2600 TO 3350

SAMPLES EXAMINED FROM 2600 TO 3350

GEOLOGICAL SUPERVISION FROM 2900 TO 3350

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	449-1304	446+1502
HEEBNER	2899-1101	2898-1100
BROWN LIME	2971-1223	2973-1225
LANGING	2995-1247	2988-1240
B/KC	3230-1482	3233-1485
ARBUCKLE	3247-1499	3250-1502



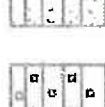


REMARKS

6-13-14 SPUD
6-14 @ 189'
6-15 @ 1297'
6-16 @ 2003'
6-17 @ 2331'
6-18 @ 3087'
6-19 @ 3242'
6-20 @ 3350'

API: 15-009-25982

LEGEND

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

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Increases

DEPTH
5' 10" 15" 20" 25'
400

450

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 446+1302

SHOED-06

500

2600

2700

2800

Vis: 58
WT: 8.5
WL: 8.0
CNS: 2000

Samples are tagged

LS. To Sil. Foss. SLA

LS. To Sil. SLA

LS. Bl. Gyr. Sil. Foss.

4 Bl.

Sh. Blk. Camb. LS. Bl. Sil. Foss.

Sh. Gyr.

LS. To Bl. Sil. Foss.

Sh. L. Gyr.

LS. To Gyr. Foss. Calcite.

LS. To Bl. Foss. Calcite.

2 Bl.

Sh. Bl.

LS. To Gyr. Sil. Foss.

Sh. Blk. Camb.

LS. To Bl. Fossil. Calcite.

LS. w/ Fossil. SLA

LS. Gyr. Dole

LS. w/ Sil. Chlly.

LS. w/ L. Gyr. and

LS. To Gyr. w/ Sil. Chlly.

LS. w/ Sil. Foss. Sil. Chlly.

HEEBNER 2848-1100

Sh. Blk. Camb. Sil. Gyr. Sil. Foss.

Sh. L. Gyr.

LS. w/ and Foss. Sil. Sil. SLA
5570 No. Floor
No. 0000

2900 No. 2900
No. 2900

Sh. L.L. Co.

2900

Sh. L.L. Co. Silly

Sh. L.L. Co. Silly

Silly
L.L. Co. Silly
Dull Floor

Sh. L.L. Co. Silly

BROWN LIME 2973-1225

Sh. L.L. Co.

LANSING 2988-1240

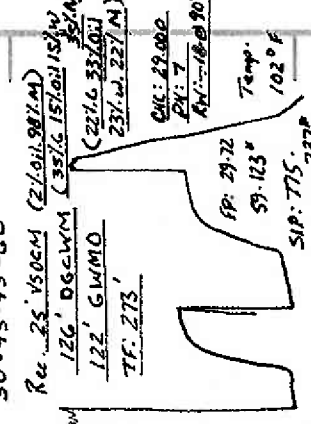
L. W. V.S. Fass.

3000

L. W. V.S. Fass.

DST (1) 3012-3100
1st OPEN: Bottom bucket 1 1/2 min. BS: None
2nd OPEN: " " Zipped. GTS 38 min.

30-45-95-60



Re: 25' VSOEM (21/01/987M)
126' DGCLYM (357.6 15700 15700 307N)
122' GUMMO (227.6 22700 22700 227N)
TF: 273'
PP: 29.72
SP: 123
Temp: 102.0 F
SIP: 775.737P

L. W. V.S. Fass. DE. R. Silly
V.S. Fass. No. 2900
P. Odor

L. W. V.S. Fass.

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3100

Sh. L.L. Co.

L. W. V.S. Fass. DE. R. Silly
V.S. Fass. No. 2900
P. Odor

L. W. V.S. Fass.

V.S. 52
WT: 9.9
MC: 8.0
CAL: 5000

DST (2) 3230-3254

1st OPEN: Bottom bucket 95 sec. BS: 6' 1/2"
2nd OPEN: " " 134 min. BS: Bottom bucket

63. wt. vol. Family of L.I. B. S. 500. V. 5000
P. Flow. F. odor.

Z: open: 1 1/34 MIN. 68: Bottom
Sucker

30. 45-45-60
Rev. 567' GIP, 34' CO Grav. 42
204' 060000W (37.6.10' 04.7' 40' 02' W)
756' 50W (1.1. Mid 201' 01' 81.4)
1256' 1500W (2.1. Mid. 96' 100)
TF: 2330
C.A.: 15.000
RA: 7
RF: 3.0 @ 98°F.
FP: 298 984
989-1031
SIP: 1031-1032 *
Temp 110°F

Tool Sample: 20' 101 751' W 51' M

L.I. to 514
L.I. to 514
3233-1485
L.I. to 514-514
3233-1485

SE. L.I. to 514-514
ARBUCKLE 3250-1502
No Sample. Mud Pump Out

Dol. to L.I. to 514-514
L.I. to 514-514

Dol. to L.I. to 514-514
F.S. 5500

Dol. to L.I. to 514-514
SE. 5500

A. out. whly
L.I. to 514-514

Dol. to 514-514

Dol. to 514-514

Dol. to 514-514

Dol. to 514-514

115.54
WT: 9.45
MC: 10.0
CALI: 5500



N70 3350-1602

3300