

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE # 1-5 GARY

FIELD WILDCAT

LOCATION 1650' FSL ± 2970' FEL

SEC 5 TWP 19s RGE 27W

COUNTY LANE STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

SPUD 12-17-18 COMP 1-4-19

RTO 4740 LTD 4741

MUD UP 3500 TYPE MUD CHEMICAL

ELEVATIONS

KB 2729

DE 2724

GL 2724

Measurements Are All
From 2729 B

CASING

SIZE 8 5/8" @ 245'

PRODUCTION

ELECTRICAL SURVEYS

DUAL IND., DENS-N. MICRO

SAMPLES SAVED FROM 3600 TO 4740

DRILLING TIME KEPT FROM 3400 TO 4740

SAMPLES EXAMINED FROM 3600 TO 4740

GEOLOGICAL SUPERVISION FROM 3800 TO 4740

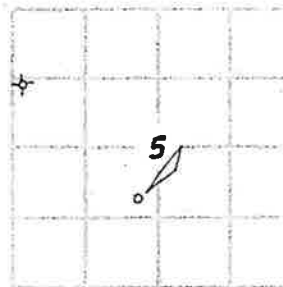
GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS

LOG

SAMPLES

ANHYDRITE	2087+ 642	2088+ 641
B/ANH.	2118+ 611	2120+ 609
STOTLER	3546- 817	3548- 819
HEEBNER	3969- 1240	3971- 1242
LANSING	4008- 1279	4009- 1280
STARK	4274- 1545	4279- 1550
MARMATON	4382- 1653	4383- 1654
FORT SCOTT	4528- 1799	4527- 1798
CHEROKEE	4552- 1823	4550- 1821
MISSISSIPPI	4624- 1895	4624- 1895



REMARKS

API: 15-101-22618

1-3 @ 4623'
1-4 @ 4740'

12-17-18 SPUD
12-18 @ 258'
12-19 @ 1215'
12-20 @ 2340'
12-21 @ 3135'
CHRISTMAS BREAK
12-29 @ 3401'
12-30 @ 3432'
12-31 @ 3860'
1-1-19 @ 4296'
1-2 @ 4905'

LEGEND



Dolomite
Grit
Cellulose
Limestone
Carb. sh.
Shale
Sandstone
Salt
Anhydrite

DRILLING TIME IN MINUTES
PER FOOT
Index of Penetration (inches)

DEPTH
2050

LITHOLOGY

REMARKS

SAMPLE DESCRIPTIONS

ANHYDRITE 2088+ 641

B/ANH. 2120+ 609

2100

2150

3400

3500

3600

Samples are Lagged

STOTLER 3548-819

ls. Gyl. Sl. Foss.

Sh. Llg. G.

ls. Th. Sl. Foss. VSi. A

Sh. Llg.

ls. Th. Sl. Foss.

ls. W. Llg. G. Foss.

Sh. Gyl.

ls. Llg. Sl. Foss.

Sh. Gyl.

ls. Llg. VSi. Foss.

LANSING 4009-1280

Sh. Bl.

LS. wt. Foss.ool. Si. A

Sh. Bl. G.

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

Sh. Bl. G.

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

Sh. Bl. G.

LS. wt. Foss.ool. Si. A

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Sh. Bl. G.

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

✓ LOG

MUNCIE CREEK 4182-1453

Sh. Bl. G.

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

LS. wt. Foss.ool. Si. A

Sh. Bl. G.

LS. wt. Foss.ool. Si. A

Sh. Bl. G.

LS. wt. Foss.ool. Si. A

Sh. Bl. G.

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STARK 4279-1550

Sh. Bl. G.

LS. wt. Foss.ool. Si. A

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✓ LOG

✓ LOG

✓ LOG

DST (1) 4274-4296
1500 ft. below surface
2000 ft. below surface
3000 ft. below surface
4000 ft. below surface
5000 ft. below surface
6000 ft. below surface
7000 ft. below surface
8000 ft. below surface
9000 ft. below surface
10000 ft. below surface
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98000 ft. below surface
99000 ft. below surface
100000 ft. below surface

30-15-25-40

Rec. 82' NW (C81-W321-M)

124' SW (C81-W321-M)

248' SW (C81-W321-M)

TR: 454'

FW: 3 @ 25°F

FW: 3 @ 132°F

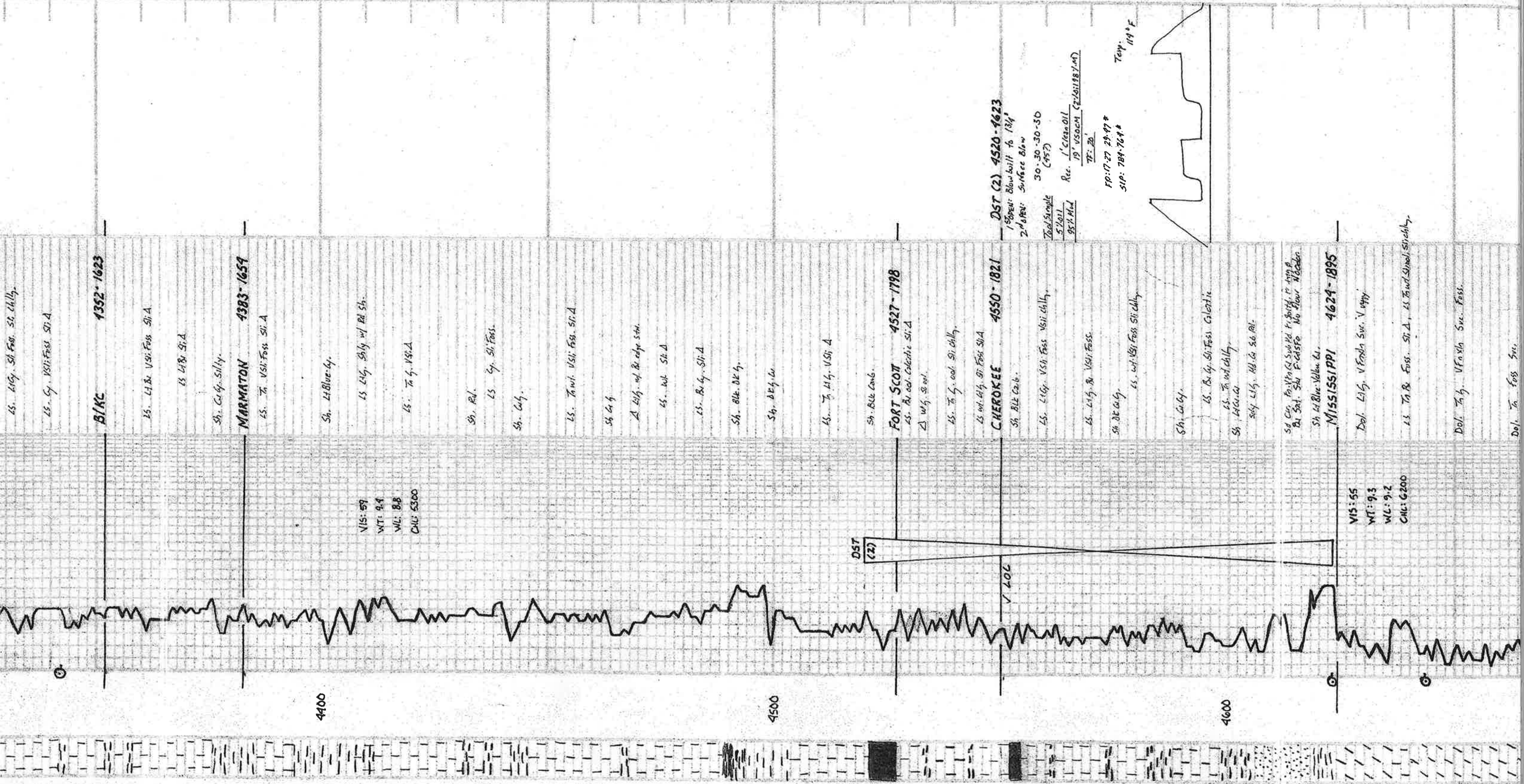
FW: 3 @ 132°F

FW: 3 @ 132°F

FW: 3 @ 132°F

FW: 3 @ 132°F

FW: 3 @ 132°F



Dol. In Foss Svc.

Dol. T. h. Foxh. 50c.

U.S. Hy. Foss. SIA Calcitic

Dol. To h. Food Survey Neg. Incl.

Del. Towl. Flyh Soc. w/ Glau.

Δ 6.15. wt. Foss.

Aug 23 1897

RTD 4740-2011

4700