

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	L. D. DRILLING, INC.	ELEVATIONS
LEASE	1-K CLEM	TO 3001
FIELD	WILDCAT	OF
LOCATION	595' FSL T 730' FEL	IS 2996
SEG	14 WSP 16s RGE 33w	Measurements Are All From 3001 KB
COUNTY	SCOTT STATE KANSAS	
OPERATOR	L. D. DRILLING, INC.	CASING
SPUD	9-27-19	8 5/8" @ 261'
DATE	9-8-19	FORMATION
WELL NO.	4850	ELECTRICAL SURVEYS
WELL ID	4818	DUAL IND., DENS.-N.
WELL DEPTH	3503	MICRO. SONIC
	TYPE MUD: CHEMICAL	
SAMPLES SAVED FROM	3700	TO 4850
DRILLING TIME KEPT FROM	3400	TO 4850
SAMPLES EXAMINED FROM	3700	TO 4850
GEOLOGICAL SUPERVISION FROM	3800	TO 4850
GEOLOGIST ON WELL	KIM B. SHOEMAKER	

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2354+ 647	
B/ANK.	2373+ 628	
STOTLER	3544- 543	3546- 545
HEEBNER	3924- 923	3930- 929
LANSING	3968- 967	3971- 970
STARK	4238- 1237	4240- 1239
PAWNEE	4462- 1461	4464- 1463
FORT SCOTT	4506- 1505	4507- 1506
CHEROKEE	4534- 1533	4537- 1536
MISSISSIPPI	4744- 1743	4746- 1745

API: 15-171-21260
 Drill time for AMK. 2300-2400 was not available due to geologist about stopped.

- REMARKS
- 9-27-19 SPUD
 - 9-28 @ 264'
 - 9-29 @ 1465'
 - 9-30 @ 2595'
 - 10-1 @ 3170'
 - 10-2 @ 3600'
 - 10-3 @ 4075'
 - 10-4 @ 4393'
 - 10-5 @ 4520'
 - 10-6 @ 4635'
 - 10-7 @ 4689'
 - 10-8 @ 4848'

LEGEND

Hydrate Salt Sandstone Shale Limestone Crinoidal Part Possible



240901-11

3500

STOTLER 3546-545

3600

VIS: 44 WT: 8.1
WL: 8.4 CW: 2000

Samples are Lagged

15. wt. clay. ool. sil. Glastic

15. clay. VST. A

15. wt. ool. sil. clay

15. T. clay. Sil. A

15. B. G. St. Foss.

Sh. G.

15. wt. clay. St. Foss. Sil. clay

Sh. G.

15. B. G. ool. Sil. A

15. B. G. ool. VST. clay

15. T. Foss. Glastic

Sh. Bk.

Sh. Glastic. Sil. G. Sh.

3700

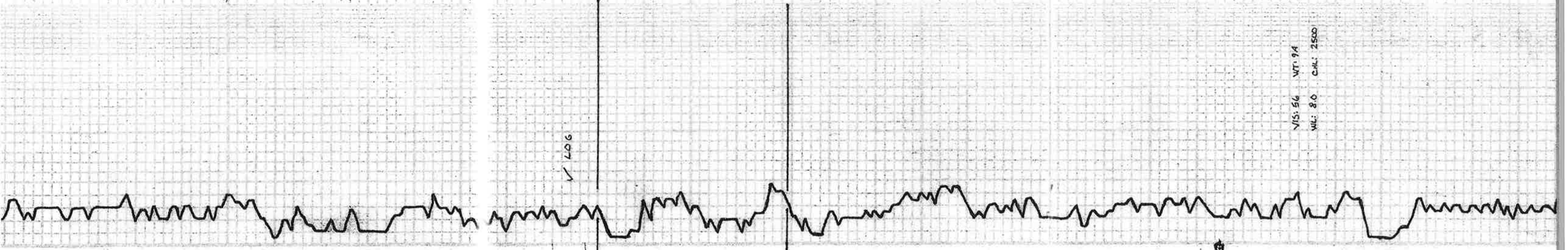
3800

Sh. Blk.
 Sh. Albleckn. Silty - Sh
 Ls. To VSh Foss.
 Ls. To Sl. Foss. Sl. A
 Sh. Gp.
 Ls. To Foss. ool.
 Ls. w/ Ls. Foss. ool. VSl. ch. lly
 Ls. Dol. To VSh. lly Sue.
 Sh. Gp.
 Ls. To Sl. Foss.

Sh. Clay
 Ls. To Foss. Sl. Foss.
 Sh. Blk. Carb.
NEEBNER 3930-929
 Sh. Ls. Gp.
 Ls. To Gp. VSl. Foss.
 Ls. w/ Sl. Foss. Sl. A
 Sh. R. L. Gp.
LANSING 3971-970
 Ls. w/ ool. Sl. A

Ls. To w/ VSl. Foss. Sl. A
 Sh. Ls. Gp.
 Ls. w/ Sl. Foss. Sl. Oolitic
 Ls. To VSl. Foss. Sl. A
 Ls. w/ Sl. ool. Sl. A
 Ls. To VSl. Foss. Sl. A
 Sh. Dol. Gp.
 Ls. To Sl. Foss. Sl. A
 Ls. To ool. Sl. Foss. Sl. A

Ls. w/ Sl. Foss. Sl. Oolitic
 Ls. w/ Sl. Foss. Sl. A
 Sh. Ls. Gp.
 Ls. To Ls. Gp. ool. Sl. ool.
 Ls. Ls. Gp. To VSl. Foss. VSl. A
 Ls. To w/ VSl. Foss. Sl. A
 Ls. To Ls. Gp. VSl. A



3900

4000

4100

LOG

VIS: 56 WT: 9A
 WIL: 8.0 C.M.: 2500

45. To 41 G. VSi: A

MUNCIE CREEK 4150-4149

45. To 41 G. VSi: Foss. Sil. Calcitic

Sh. Lt. Blue

45. wt. Sil. Foss. Sil. A

45. wt. VSi: Foss. VSi: Calcitic

Sh. Dk. G.

45. B. VSi: Foss. Sil. A

Lt. Blue. G.

45. wt. Sil. Foss. Sil. A

Sh. Lt. Blue

45. B. G. Sil. Foss

45. To G. VSi: Foss. Sil. A

STARK 4240-4239

Sh. Lt. Blue

45. wt. VSi: Foss. VSi: Foss

Sh. Lt. Blue

45. wt. Calc. Sil. Foss. Foss. Calcitic

45. wt. Calc.

45. wt. Lt. G. VSi: Foss

Sh. Lt. Blue

45. To wt. Foss. Sil. Foss. Sil. A

HUSHPUCKNEY 4284-4283

Sh. Lt. Blue

45. B. G. Sil. Foss. Calcitic

Sh. Lt. Blue

45. G. Foss. w/ Def. Ind.

45. G. VSi: Foss. Sil. A

Sh. Lt. Blue

45. Lt. G. VSi: Foss. Sil. A

Sh. Lt. Blue

45. Lt. G. wt. VSi: Calc.

Sh. Lt. Blue

Sh. Lt. Blue. Silky. Silky. Silky

MARMATON 4358-4357

45. To G. Sil. A

Sh. Lt. Blue

45. B. Sil. A

45. Lt. G.

45. G. Sil. Foss. VSi: Calc.

Sh. Lt. Blue

45. To wt. Foss. VSi: Calc. P. VSi: Foss. Sil. A. 55 Fb. Ft. Flour. (44285)

Sh. Lt. Blue

45. G. VSi: Foss. Sil. A

45. To Foss. Sil. A. Dm.

45. To Foss. Sil. A

Sh. Lt. Blue

Sh. Lt. Blue

VIS: 49

WT: 94

ML: 916

CH: 3200

DST (1) 4398-4320

1st OPEN: Blow built to 1 1/4"

2nd OPEN: " " " 1/4"

30-45-45-60

4200

4300

4400

4800

RTD 4850-1849

⊙

LS wt ool. Sil chly.

Sl. DEChy

LS. wt ool. vSi: silky chly.

LS. 7/8 ool. vSi: chly. vSi:A

LS. wt ool. Sl: chly.

LS. 7/8 LPS ool.

LS. R. Sl: A Calcitic

LS. 7/8 Gy. Sl: Foss. Sl:A

LS. 7/8 Gy. Sl: ool.

Δ Gy. Foss.

LS. L/S. ool. w/ DEChy ool.