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GEOLOGIST'S REPORT

WELL LOG AND SAMPLE LOG

L. D. DRILLING, INC.

#1-21 DWIGHT

WILDCAT

1853' FSL + 1503' FEL

21 15s 29W

GOVE STATE KANSAS

L. D. DRILLING, INC.

5-17-19 6-5-19

4370 4371

3251 CHEMICAL

2545

2540

Measurements Are At
From 2545 KB

8 5/8" @ 369'

DUAL IND., DENS., MICRO

3400 TO 4370

3200 TO 4370

3400 TO 4370

3600 TO 4370

Kim B. Shoemaker

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1964+ 581	1963+ 582
B/ANH.	1992+ 553	1992+ 553
STOTLER	3240- 695	3242- 697
HEEBNER	3617- 1072	3618- 1073
LANSING	3653- 1108	3653- 1108
STARK	3907- 1362	3906- 1361
MARMATON	4014- 1469	4016- 1471
FORT SCOTT	4164- 1619	4162- 1617
CHEROKEE	4190- 1645	4188- 1643
MISSISSIPPI	4258- 1713	4262- 1717

21

5-17-19 SPUD
5-18 @ 372'
5-19 @ 1846'
5-20 @ 2630'
5-21 @ 3120'
DOWN RAIN
5-30 @ 3126'
5-31 @ 3320'
6-1 @ 3782'
6-2 @ 3900'
6-3 @ 3955'
6-4 @ 4250'
6-5 @ 4370'

API: 15-063-22357

Elevation change below *

Alternate Drilled 25406L

Original Corrected 25346L

LEGEND



DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Indicator

1900

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE

1963+ 576
583

B/ANH.

1992+ 547
553

2000

2000

3200

3300

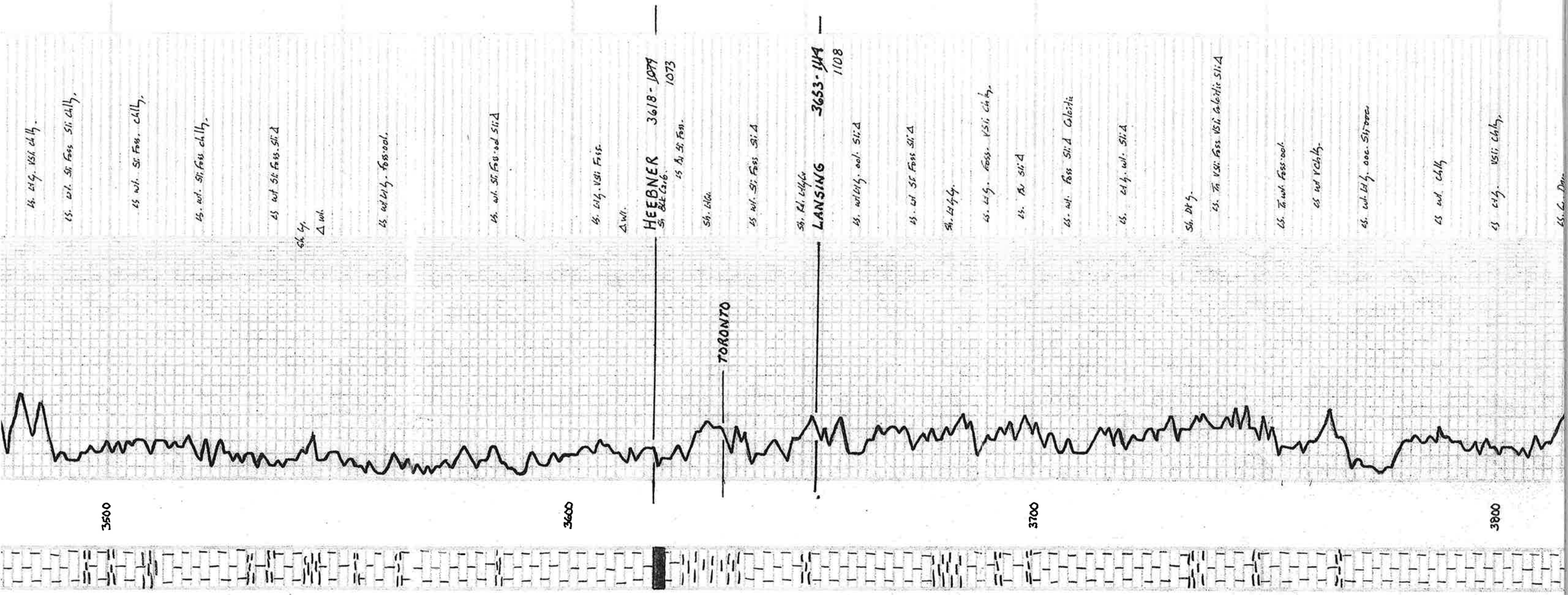
3400



STOTLER 3242-703
-697

VIS: 42 WT: 8.8
Wk: 6.0 CUL: 2700

sh. lig. silty
Samples are lagged
ls. lig. Dis.
ls. wt. foss. calcitic
sh. G.
ls. wt. fossil calcitic
sh. lig.
ls. wt. lig. silty silty foss.
sh. lig.
ls. wt. silty foss. silty
ls. lig. vs. ch. B.



ls. Ldg. VSi chly.

ls. wt. Sl. Foss. Sl. chly.

ls. wt. Sl. Foss. chly.

ls. wt. Sl. Foss. chly.

ls. wt. Sl. Foss. Sl. A

Sh. Ldg.

Δ wt.

ls. wt. Ldg. Foss. ool.

ls. wt. Sl. Foss. ool. Sl. A

ls. Ldg. VSi Foss.

Δ wt.

HEEBNER 3618-1079

Sh. Ldg. VSi Foss.

1073

ls. Sl. Foss.

Sh. Ldg.

TORONTO

ls. wt. Sl. Foss. Sl. A

Sh. Ldg.

LANSING 3653-1108

1108

ls. wt. Ldg. ool. Sl. A

ls. wt. Sl. Foss. Sl. A

Sh. Ldg.

ls. Ldg. Foss. VSi chly.

ls. Foss. Sl. A

ls. wt. Foss. Sl. A. Calc. Ldg.

ls. Ldg. wt. Sl. A

Sh. Ldg.

ls. Foss. VSi. Calc. Ldg. Sl. A

ls. Foss. ool.

ls. wt. VSi chly.

ls. wt. Ldg. ool. Sl. A

ls. wt. chly.

ls. Ldg. VSi chly.

ls. Ldg.

LS. G. Dm.

MUNCIE CREEK 3820-1281

LS. Bk. 1281

LS. Bk. VSI Foss. Sl. calcitic

Sh. Ltg. G.

LS. wt. LS. wt. Sl. Foss. Sl. A

LS. wt. Ltg. Sl. Foss. Sl. A

A. wt. Ltg.

Sh. Ltg. Bk.

A. Bk. VSI Foss. Sl. Foss.

Sh. Ltg. G.

LS. wt. Ltg. VSI Foss. Sl. Foss. Sl. A. F. P. V. G. of
Bk. wt. Sl. Foss. Sl. Foss. Sl. A. F. P. V. G. of
(3880)

LS. Ltg. G. Sl. Foss. Sl. Foss. Sl. A. F. P. V. G. of
Bk. wt. Sl. Foss. Sl. Foss. Sl. A. F. P. V. G. of
(3880)

LS. Bk. Dm. Sl. Foss. Sl. Foss. Sl. A. F. P. V. G. of
Bk. wt. Sl. Foss. Sl. Foss. Sl. A. F. P. V. G. of
No. Dm.

VIS: 56 WT: 9.2
WL: 6.0 CHL: 2200

STARK

3906-1361

Sh. Bk. G. Bk.

A. Ltg. G.

LS. wt. Ltg. Sl. Foss. Sl. Foss. Sl. A. F. P. V. G. of
Bk. wt. Sl. Foss. Sl. Foss. Sl. A. F. P. V. G. of
No. Dm.

LS. Ltg. G. Sl. Foss. Sl. Foss. Sl. A. F. P. V. G. of

HUSHPUCKNEY

3937-1392

Sh. Bk. G. Bk.

LS. wt. Ltg. VSI Foss. Sl. calcitic

LS. wt. Sl. wt. Sl. calcitic No. Dm.
Bk. wt. Sl. Foss. Sl. Foss. Sl. A. F. P. V. G. of
(3935, 300)

Sh. G.

LS. Ltg. wt. VSI Foss. VSI ch. G.

VIS: 46 WT: 9.3
WL: 8.0 CHL: 2300

LS. G. Sl. Foss. Calcitic

B/KC

3987-1442

LS. Tm. G. Sl. Foss. Calcitic

Sh. Ltg. G. G. Sl. Ltg.

MARMATON

4016-1471

LS. wt. Sl. Foss. Sl. A

Sh. Ltg. Bk. G.

LS. Bk. G. VSI Foss.

Sh. Pk.

LS. wt.

LS. wt. Sl. Foss. Sl. Ltg.

Sh. Ltg.

LS. wt. Ltg. VSI Foss. Sl. A

LS. Tm. Sl. Foss. Sl. A

Sh. Bk. G.

PAWNEE

4100-1555

LS. wt. Sl. Foss. VSI ch. G.

LS. Tm. Sl. Foss. Sl. A

Sh. Bk. G. LS. Bk. VSI Calcitic

Sh. G. G.

New Tester's Tool

DST (1) 3853-3900
Hit Bridge 1900 ft. could not get
to bottom

DST (2) 3853-3900

1st OPEN: Blow built to 1"

2nd OPEN: Surface Blow

30-30-30-30

Rec. 15' Mud

Tool Sample

100' Mud

FP: 12.15 10-178

SIP: 643-633 #

Temp. 116°F

DST (3) 3935-3955

1st OPEN: Blow built to 1 1/2"

2nd OPEN: " " 1 1/2"

30-30-30-30

Rec. 31' Mud

Tool Sample

100' Mud

FP: 11.17 18-228

SIP: 500-490 #

Temp. 121°F

LS. Lgt. Sil Foss Sil Chky. - w/lycl. to No. 1000

DST (1) 4127-4250
1 STOP: Surface Blow
2nd STOP: " " died 2 1/2 min.

30-30-30-30

Re. 20' Mud

FP: 15:20 18:21*
SIP: 883-809*

Temp.
122.05

Sh Blk Inv.
FORT SCOTT 4162-1623

-1617

LS. Blg. V. Sil Foss Sil A

A Blg.

LS. T. g. ool. Sil A Dm.

CHEROKEE 4188-1649

-1643

LS. Bl. T. ool. Colitic

LS. Bl. V. Sil A

Sh. g. ool.

LS. T. g. Sil Foss Sil A

Sh. g. ool.

LS. T. V. Sil Foss Colitic

Sh. Blg.

JOHNSON 4239-1695

-1689

LS. T. Bl. V. Sil Foss Sil A

LS. Blg. V. Sil Sil A

Sh. Yellow V. Sil Sil A

VIS: 59 WT: 9.5

WL: 7.4 CML: 2300 Sh Yellow Gr. Blue. V. Sil Sil A

MISSISSIPPI 4262-1723

-1717

LS. T. Bl. Sil A

LS. Blg.

LS. wt. chky.

LS. wt. Bl. Sil A

LS. T. wt. ool. Sil chky.

LS. Bl. Foss Sil A

Dol. wt. Blg. V. Foss Sil A

Dol. wt. g. V. Foss Sil A

Dol. wt. g. V. Foss Sil A

LS. Bl. g. Foss Sil A

LS. Bl. Bl. Foss Sil A

Dol. Blg. V. Foss Sil A

LS. Bl. Foss Colitic

Dol. Blg. V. Foss Sil A

RTD 4370-1831

4200

4300

4400