KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY PROLIFIC RESOURCES, LLC

LEASE #1 RANDY ROSE

FIELD WILDCAT

LOCATION 330' FSL & 330' FWL (SW.SWSW)

SEC 3 TWSP 15s RGE 32w

COUNTY LOGAN STATE KANSAS

CONTRACTOR WW DRILLING RIG 6

SPUD 8-19-15 COMP 8-29-15

RTD 4485 LTD 4487

MUD UP 3352 TYPE MUD CHEMICAL

ELEVATIONS

KB 2697

DF

GL 2692

Measurements Are All From 2697 KB

CASING

SURFACE 8 5/8" @ 302'

PRODUCTION 5½" @

ELECTRICAL SURVEYS

DUAL IND, DENS-N., MICRO, SONIC

SAMPLES SAVED FROM 3400 TO 4485

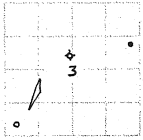
DRILLING TIME KEPT FROM 3200 TO 4485

SAMPLES EXAMINED FROM 3400 TO 4485

GEOLOGICAL SUPERVISION FROM 3500 TO 4485

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2116+581	2118+579
B/ANH.	2138+559	2141+556
STOTLER	3272-575	3272-575
HEEBNER	3637-940	3638-941
LANSING	3674-977	3676-979
STARK	3926-1229	3926-1229
MARMATON	4041-1344	4039-1342
FORT SCOTT	4196-1499	4183-1486
CHEROKEE	4223-1526	4208-1511
MISSISSIPPI	4341-1644	4337-1640



REMARKS

8-19-15 SPUD

8-20 @ 302'

8-21 @ 2430'

8-22 @ 3300'

8-23 @ 3810'

8-24 @ 3960'

8-25 @ 3995'

8-26 @ 4208'

8-27 @ 4280'

8-28 @ 4485'

8-29 @ 4485'

API: 15-109-21433

LEGEND

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

DRILLING TIME IN MINUTES PER FOOT

SHOE1-11

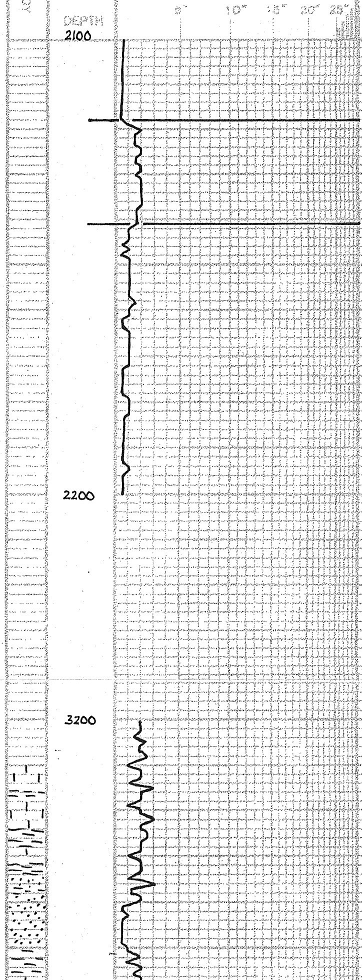
LITHOLOGY

DEPTH

Rate of Penetration [illegible]

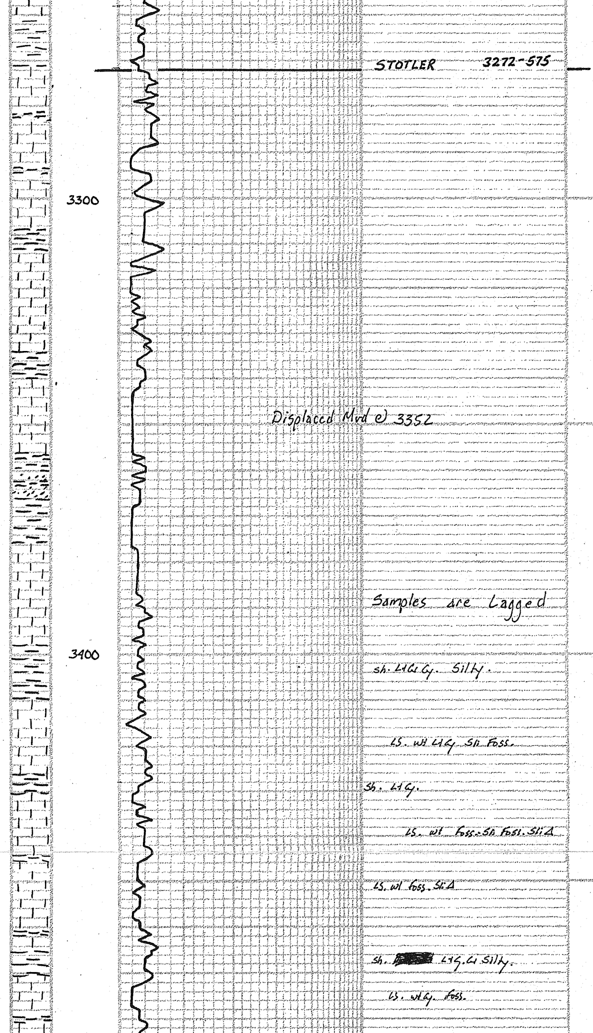
SAMPLE DESCRIPTIONS

REMARKS



ANHYDRITE 2118 + 579

B/ANH. 2141 + 556



STOTLER 3272-575

Displaced Mud @ 3352

Samples are Lagged

sh. LtGi Gy. Silty.

LS. Wt LtGy Sli Foss.

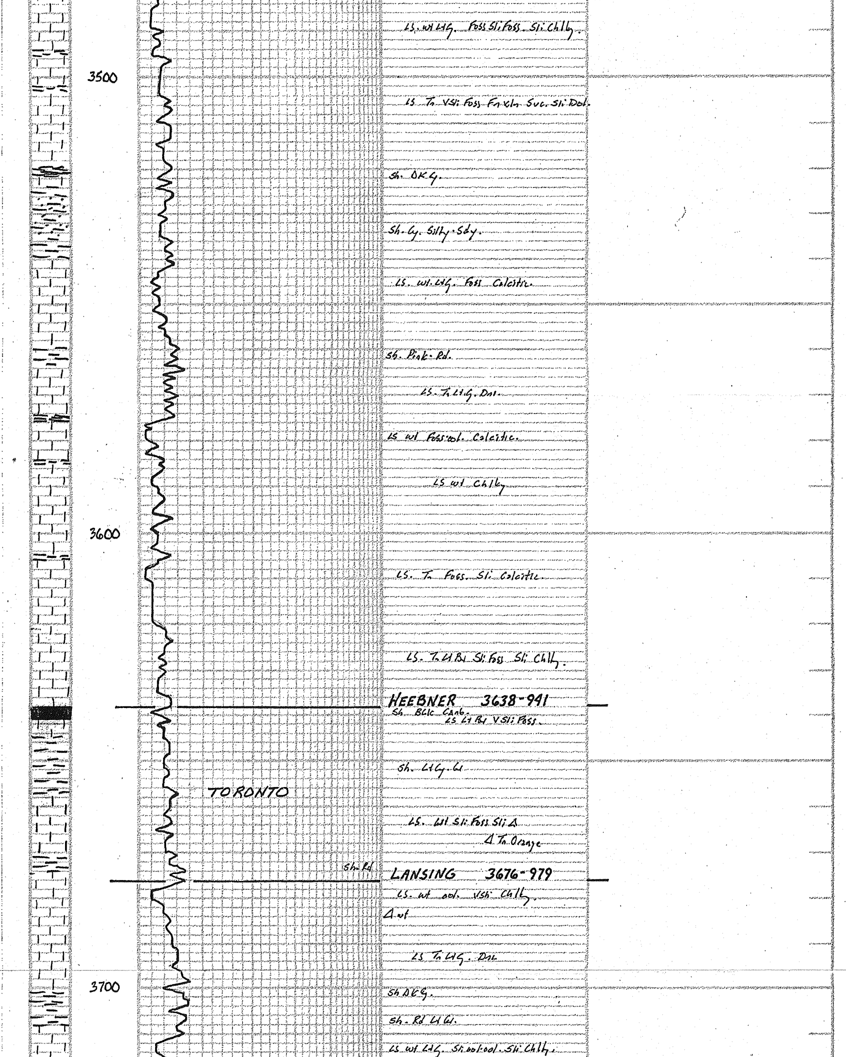
Sh. LtGy.

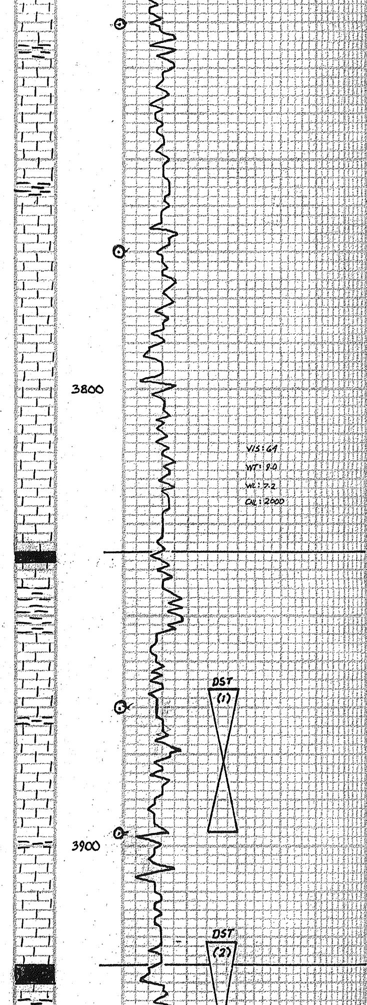
LS. wt Foss-SA Fossi. Sli∆

LS. wt Foss. Sli∆

sh. [redacted] LtG.Gi Silty.

LS. wtGy. Foss.





VIS: 64
WT: 9.0
WL: 7.2
CHL: 2000

Δ Gy. wt.

Sh. Lt Gy.

LS wt Lt Gy. VSli Foss.

LS. Tn wt Sli Foss Sli Δ

Sh. Gy.

LS. Tn Lt Bi VSli Foss VSli Calcitic.

LS. wt Chlky.

LS. wt Chlky.

LS. wt ool. ooc. VSli Chlky.

LS. wt Chlky.

LS Gy. Lt Gy. Dns. VSli Δ

LS. Tn VSli Foss.

MUNCIE CREEK 3836-1139

Sh Blk Carb.

LS Lt Bi VSli Foss Sli Calcitic

Sh. Lt Gy. Gr.

LS. Tn wt. V Fnxln Suc. Dolomitic.

LS. Lt Gy. Tn VSli Δ

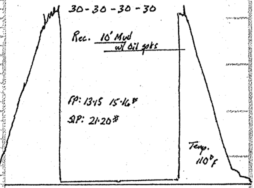
Sh Lt Blue Gy.

LS. wt Sli Foss. Sli Δ

LS wt ool. VSli Chlky P.-Fly ϕ
Lt Bi Sptd Sh VSSFO Tr Gas Dull Flour.
No Odor.

DST (1) 3866-3897

1ST OPEN: Surface blow died 18 min.
2nd OPEN: No Blow



30-30-30-30

Rec. 10' Mud w/ Oil spks

FP: 13-15 15-16#

SIP: 21-20#

Temp. 110°F

LS wt Lt Gy. Sli ool. ooc. Sli Chlky.

Δ Gy.

LS Tn Gy. Dns.

STARK 3926-1229

Sh Blk Carb.

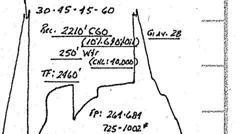
LS Dk Bi VSli Foss

Sh.

DST (2) 3921-3960

1ST OPEN: Bottom bucket 2 MIN.
2nd OPEN: " " 3 "

BB: None
BB: "



30-45-45-60

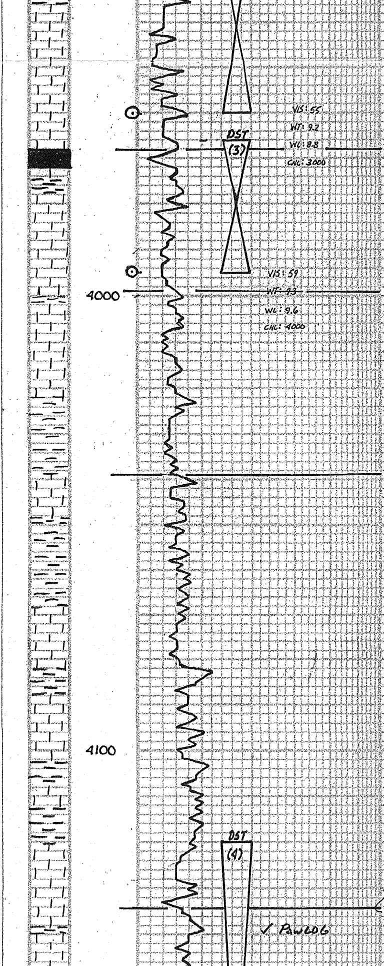
Rec. 2210' CGO (10% G 90% Oil)

Grav. 28

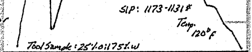
250' Wtr (CHL: 40,000)

TF: 2460'

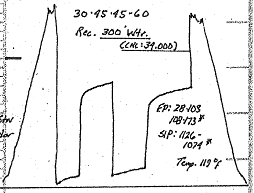
FP: 261-684
725-1002#



LS.G. Foss-ool. Fi-Gd Vg Ø
Bi Sctd. Sth VSSFO Dull Flour Gd Odor


SIP: 1173-1131#
Temp. 120°F
Tool Sample: 25% O: 175% W

LS wi v chlty.


DST (3) 3966-3995
1ST OPEN: Blow built to 4"
2ND OPEN: " " " 11"
BB: None
BB: "
30-45-45-60
Rec. 300' Wtr.
(CHL: 34,000)
FP: 28-103
108-173#
SIP: 1126-1074#
Temp. 119°F

HUSHPUCKNEY 3968-1271
Sh Blk Carb.
LS Bi G. VSl Foss.

Sh Lt G.

LS wi G. Sl ool Foss. P Ilz Ø Lt Bi Sptd Stn
VSSFO Dull Flour No odor

LS. wi Lt G. Sl Foss Sl Chlty.

B/KC 3999-1302
LS wi Tn Sli Foss Sl Chlty.

Poor Samples
mostly shale.

LS. Tn G. Dn.

Sh Rd.-Lt Blue Gr Silty Sdy.

MARMATON 4039-1342
LS. wt VSli Foss. VSli Chlty.

Gr. Marroon, Rd.

LS. wt Lt G. Sli Foss Sli Δ VSli Chlty.

Sh. Rd. Gr.

LS. Tn G. VSli Foss.

Sh Dk Gr.
LS wt G. Sli Foss VSli Δ

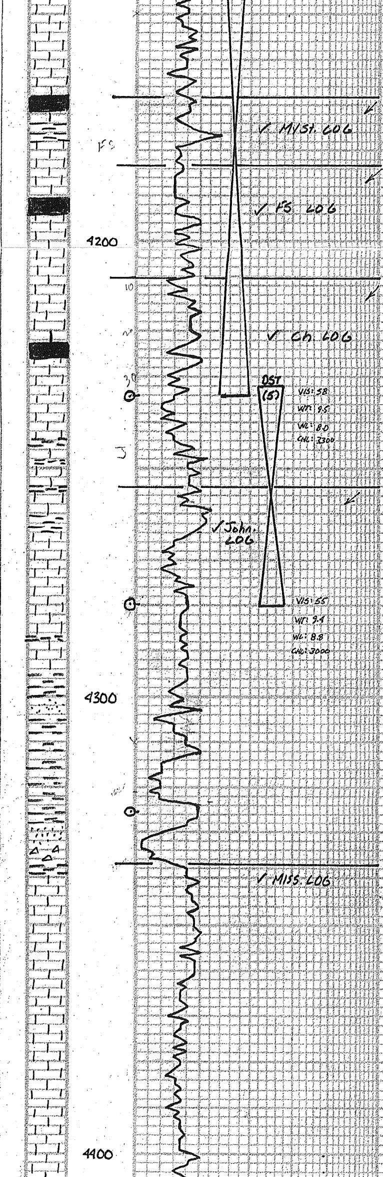
POOR Samples
mostly shale

Sh. Rd. Maroon

LS. wt Tn ool. Sli Δ

Sh.
PAWNEE 4134-1437
Dk G.

LS. wt. VSli Foss VSli Δ



LS. wt Lt Gy. VSl: Foss VSl: Chlky.

MYRICK STATION 4168-1471

Sh Blk.

LS Br VSl: Foss

Sh Lt Gy. Gr

LS Tn Gy. Sl: Foss P. Vg ø

Scat. Br. Stn VSSFO No Fluor No Odor

FORT SCOTT 4183-1486

su

Sh. Blk

LS Br Gy. ool Calcitic.

CHEROKEE 4208-1511

LS Lt Gy. VSl: Foss Sl: A

Sh Blk Carb.

LS Lt Gy. Sl: Foss Sl: A F: P. Vg ø

Scat. Br Stn SSFO Dull Fluor No odor.

LS wt Lt Gy. Sl: Foss Sl: Chlky. P. Vg ø

Sptd Lt. Br. Stn VSSFO Dull Fluor

No odor

Sh Dk Gy. Gr.

JOHNSON 4254-1557

LS Br Gy. Foss. F: P. Vg ø Dk Br. Sat. Stn

FSFO No Fluor VF+Odor.

A Br Foss.

LS wt Lt Gy. VSl: Foss Sl: Chlky.

Sh Vell Gr.

Sd Clr. wt Fn Gr Sub Rd Pyritic

Sh Dk Gr - Yellow Blue Gr.

A wt. Foss. Sd. Md Co Gr Sub Rd.

MISSISSIPPI 4337-1640

LS Tn Lt Br VSl: Foss.

LS. Tn wt. ool. Sdy Sl: Chlky

LS. wt. ool. Sdy. Chlky.

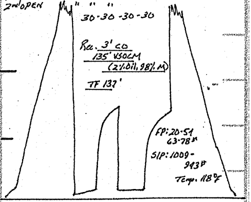
LS. wt. Sdy. VSl: A

DST (4) 4120-4234

1ST OPEN: Blow built to 2½"

2nd OPEN " " "

30-30-30-30



Rec. 3' CO

135' VSOCM

(2% Oil, 98% M)

TF 137'

FP: 20-51

63-78#

SIP: 1009-

943#

Temp. 118°F

Poor Samples

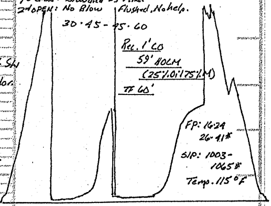
Mostly shale

DST (5) 4232-4280

1ST OPEN: Blow died 25 Min.

2nd OPEN: No Blow Flushed. No help.

30-45-45-60



Rec. 1' CO

59' HOCM

(25% O: 75% M)

TF 60'

FP: 16-24

26-41#

SIP: 1003-

1065#

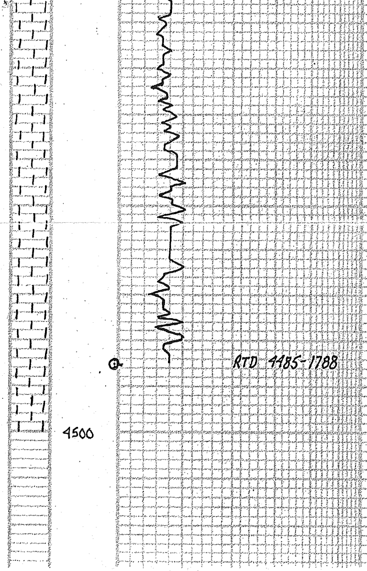
Temp. 115°F

Poor Samples

Mostly shale

Samples Terrible

All Shale To CS.



LS. Tn Sl:Δ

LS. Tn wt. Sl:Δ, Δ wt.

LS. Tn g. VSl: Calcitic

LS. wt ool. Sdy

Δ g. LS wt. VSl: Foss Calcitic

LS. wt VSl: Foss. VSl: Chlky.