

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE *1-7 REGIER

FIELD WILDCAT

LOCATION 1650' FSL ± 2970' FEL

SEC 7 TWP 22s RGE 4w

COUNTY RENO STATE KANSAS

CONTRACTOR DUKE DRILLING RIG 2

SPUD 3-3-15 COMP 3-12-15

RTD 3950 LTD 3944

MUD UP 2400 TYPE MUD CHEMICAL

ELEVATIONS

KB 1501

DF _____

GL 1493

Measurements Are All From 1501 KB

CASING

SURFACE 13 3/8" @ 134' 8 3/8" @ 212'

PRODUCTION _____

ELECTRICAL SURVEYS

RAD-GUARD

SAMPLES SAVED FROM 2400 TO 3950

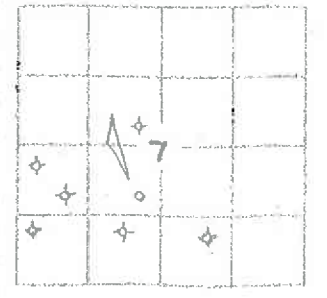
DRILLING TIME KEPT FROM 2300 TO 3950

SAMPLES EXAMINED FROM 2400 TO 3950

GEOLOGICAL SUPERVISION FROM 2600 TO 3950

GEOLOGIST ON WELL KIM B. SHOEMAKER / ARDEN RATZLAFF

FORMATION TOPS	LOG	SAMPLES
HEESNER	2440-939	2446-945
LANSING	2664-1163	2669-1163
B/KC	3070-1569	3080-1579
MISSISSIPPI	3372-1871	3370-1869
KINDERHOOK	3580-2079	3588-2087
VIOLA	3866-2365	3872-2371
SIMPSON SH.	3880-2379	3886-2385



API: 15-156-21724

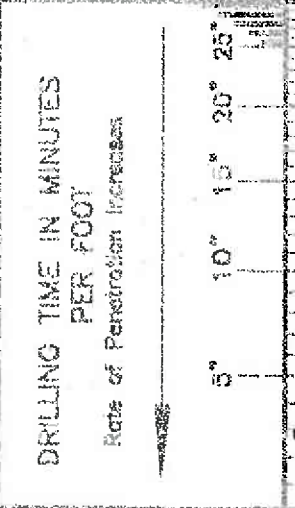
REMARKS

3-3-15 320'
 3-4 @ 935'
 3-5 @ 1717'
 3-6 @ 2312'
 3-7 @ 2765'
 3-8 @ 3235'
 3-9 @ 3706'
 3-10 @ 3882'
 3-11 @ 3892'
 3-12 @ 3950'

LEGEND

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

SHCE01-11



LITHOLOGY

REMARKS

SAMPLE DESCRIPTIONS

Samples are tagged

2400

24' Total Gas. 50' TLL 7' Inbr

2400

2500

2600

2700

DOUGLAS

HEBNER 2496-945

LANSING 2609-1168

LS. Thin. Foss. Sil. Chky. Calcitic

Sh. Silty. G.

LS. Llg. to VSI. Foss.

Sh. Blue. G.

Sh. L. Blue. G.

LS. w/ VSI. Foss. Sil. Chky.

Sh. Llg. G. Silty.

Sh. Llg. G. Silty. Silty.

Sh. Llg. G. Silty. Mucous

Sh. Silty. Mucous. G. L. Sub. R.

Sh. Llg. Silty. Silty.

Sh. Llg. Silty.

Sh. Llg. Silty.

LS. Thin. Sil. Foss. w/ Nky. Foss.

LS. Thin. Sil. Foss. Calcitic.

Sh. Llg.

LS. Thin. Blue. occ. Fish.

LS. Llg. w/ Sil. Foss. w/ Nky. Foss.

2800

2900

3000

Ls. Ta. Llg. Sh. wt. ooc. sh. Chlky.

Sh. Chlky.

Ls. Ta. Llg. Chlky. ooc.

Ls. wt. V. sh. Pass. sh. Chlky.

Ls. wt. ooc. sh. Chlky.

Ls. Ta. wt. Pass. sh. Pass. Chlky.

Ls. wt. Chlky. sh. Llg. Dal.

Ls. Ta. Wavln. ooc. gl. ooc. p.

Ls. Ta. ooc.

Ls. wt. Chlky.

Ls. Gy. Llg. Dal. V. sh. Chlky.

Ls. Ta. V. sh. Pass. V. sh. Chlky.

Sh. Llg. C.

Ls. Ta. wt. Pass. sh. Chlky.

Sh. Gy.

Ls. wt. Llg. sh. Pass. sh. Chlky.

Ls. Llg. sh. Chlky.

Sh. Llg. sh. Chlky. Dal.

Ls. Ta. Llg. wt. Sh. ooc. Chlky.

Sh. Dal.

Ls. Llg. V. sh. Pass.

Ls. Ta. wt. sh. Pass. sh. Chlky.

Sh. Pass.

Ls. Ta. sh. Chlky.

Ls. wt. Llg. sh. Pass. sh. Chlky.

Sh. Dal. C.

Ls. wt. Llg. sh. Pass. ooc. gl. ooc. p. F. Non. E. ooc. 10000.

Ls. Ta. Gy. Dal.

Sh. Pass. C.

Ls. Ta. Llg. sh. Pass.

No. 4

wt. 87

wt. 810

wt. 6900

DIKE 3080-1579

Sh. Dk. G.

Ls. Lgy. SW. A. Col. G. Clk.

Sh. G. Lgy. Silty

Ls. Bk. Dk.

Sh. G. Dk.

Ls. and Sil. Clk.

Sh. Rd. Yellow

Ls. Bk. G. Sil. Foss.

Sh. Dk. G.

Sh. L. G. Lk.

Ls. and Foss. Sil. A.

Ls. G. Sil. Foss. Sil. A.

Sh. Bk. G. Lk.

Sh. L. Blue G. Purple

Ls. G. Sil. Foss. Sil. A.

Sh. Bk.

Ls. Bk. G. Lk.

Sh. Bk.

Sh. L. G. Lk.

Ls. Lgy. Silty w/ Rd. G. Sil. Foss.

Sh. L. Blue G.

Sh. Rd. Bk. Silty Ls. and Silty

Ls. G. Sil. Foss.

Sh. Dk. G.

Sh. L. G. Bk.

L. Orange. Weathered

L. Col. Foss.

Sh. Yellow. Mamm. Lk. G.

MISSISSIPPI 3370-1869

Ls. and Sil. Foss. Sil. A.

L. and Dk. G.

3100

3200

3300

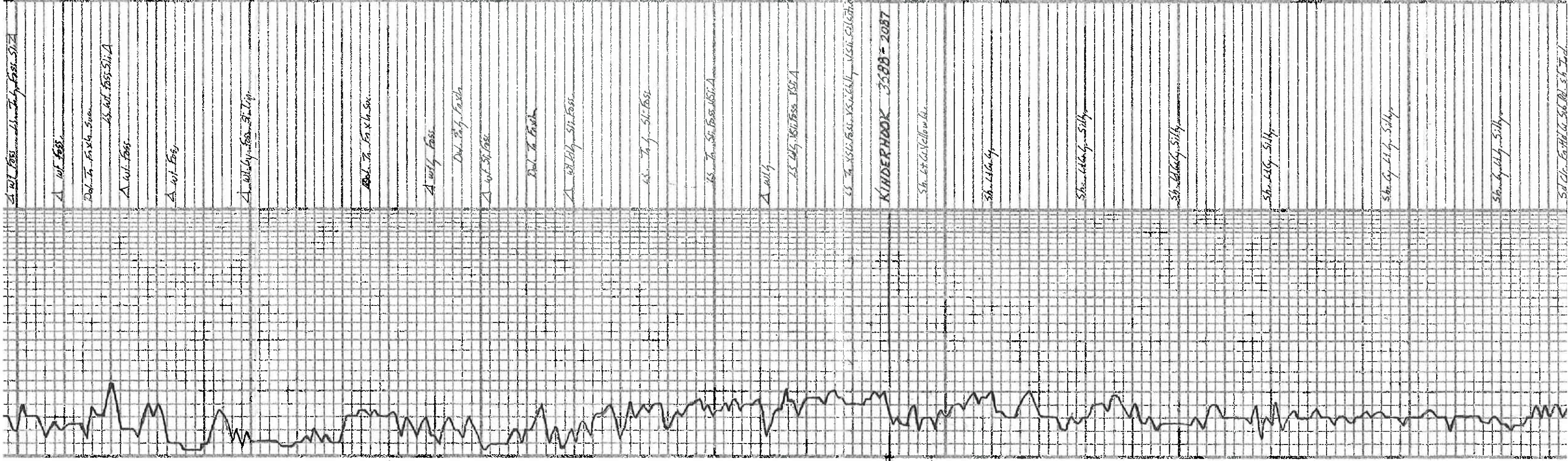
VIS: 45
MT: 92
WL: 92
CAL: 6100

3400

3500

3600

3700



Δ wt. foss. sh. July foss. Sil. A

Δ wt. foss.

Del. to Fax. 500

Δ wt. foss. Sil. A

Δ wt. foss.

Δ wt. foss.

Δ wt. July foss. Sil. A

Del. to Fax. 500

Δ wt. foss.

Del. July foss.

Δ wt. Sil. foss.

Del. to Foss.

Δ wt. July Sil. foss.

wt. July Sil. foss.

Del. to Sil. foss. Sil. A

Δ July

Δ wt. July Sil. foss. Sil. A

Δ wt. July Sil. foss. Sil. A

KINDERHOOK 3588-2087

Sh. to Yellow ls.

Sh. to ls. by

Sh. to July Sil. foss.

Sh. to July Sil. foss.

Sh. to July Sil. foss.

Sh. to July Sil. foss.

Sh. to July Sil. foss.

Sh. to July Sil. foss.

