

# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE #1-28 JULIUS

FIELD WILDCAT

LOCATION 1686' FSL 1/4 1315' FEL

SEC 21 TWSP 15s RGE 23w

COUNTY TREGO STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

SPUD 12-4-15 COMP 12-13 -15

RTD 4480 LTD 4480

MUD UP 3905 TYPE MUD CHEMICAL

### ELEVATIONS

KB 2409

DF \_\_\_\_\_

CL 2404

Measurements Are All  
From 2409 KB

### CASING

SURFACE 8 5/8" @ 305'

PRODUCTION \_\_\_\_\_

### ELECTRICAL SURVEYS

Dual IND., DENS-N., MICRO

SAMPLES SAVED FROM 3500 TO 4480

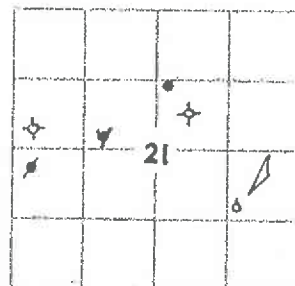
DRILLING TIME KEPT FROM 3900 TO 4480

SAMPLES EXAMINED FROM 3500 TO 4480

GEOLOGICAL SUPERVISION FROM 3600 TO 4480

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1799+610	1796+613
B/ANN.	1838+571	1835+574
HEEBNER	3783-1374	3782-1373
LANSING	3821-1412	3820-1411
B/KC	4092-1683	4091-1682
PAWNEE	4199-1790	4195-1786
FORT SCOT	4290-1881	4289-1880
CHEROKEE	4312-1903	4311-1902
MISSISSIPPI CHERT	4382-1973	4380-1971



### REMARKS

12-4-15 SPUD  
12-5 @ 308'  
12-6 @ 1787'  
12-7 @ 2537'  
12-8 @ 3100'  
12-9 @ 3540'  
12-10 @ 3977'  
12-11 @ 4220'  
12-12 @ 4480'

API: 15-195-23001

### LEGEND

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

SHOEG1-11

DRILLING TIME IN MINUTES  
PER FOOT

Rate of Penetration Increases

DEPTH  
1750  
1800  
1850

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 1796+613

B/ANN. 1835+574

LITHOLOGY

3400

3500

3600

Samples are logged

Sh. 116 Silty

LS. wt. 51. Fass. Si. Colitic

LS. 116. Dm. v. s. A

LS. wt. 51. Fass. Colitic

LS. 116. eol. w/ DEq. mol.

LS. 116. Dou

LS. 116. Sh. Fass

LS. wt. Fass. Si. A

LS. wt. v. silty

LS. 116. Fass. Colitic

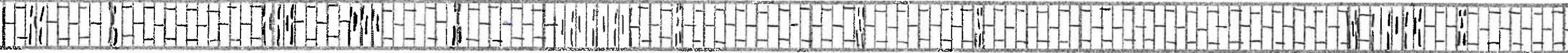
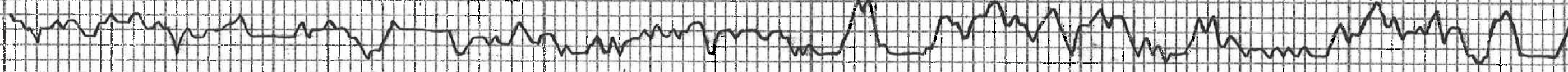
Sh. 116 Silty

LS. 116. wt. Si. A. Colitic

LS. wt. Fass

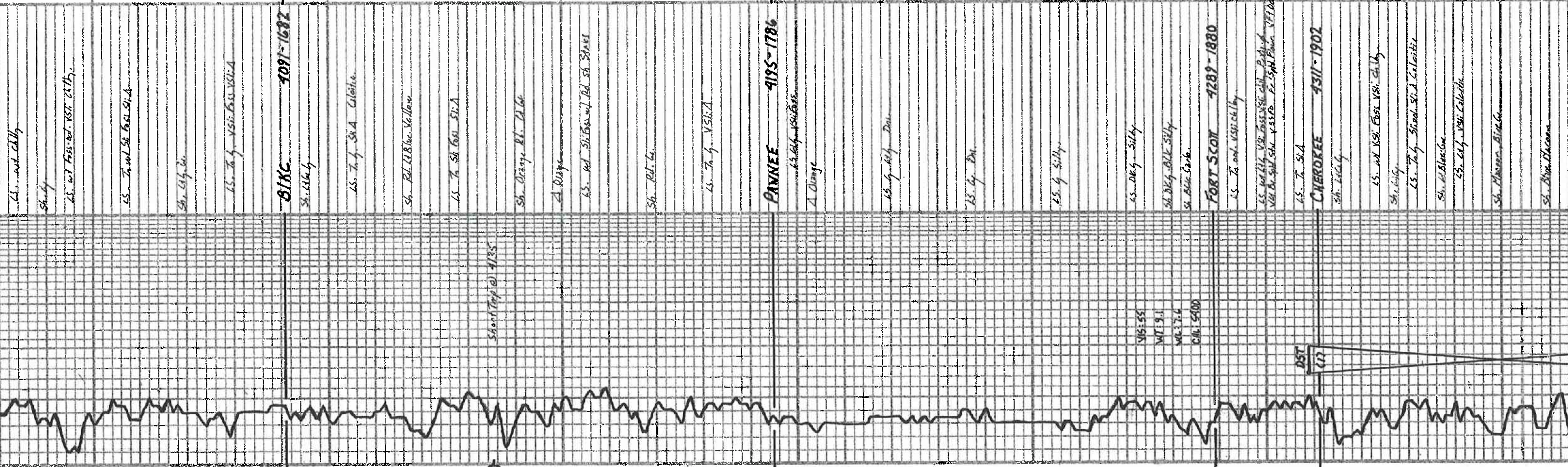
LS. wt. Fass. Colitic

Wt. 48  
Wt. 8.7  
Wt. 7.7  
Dm. 3000





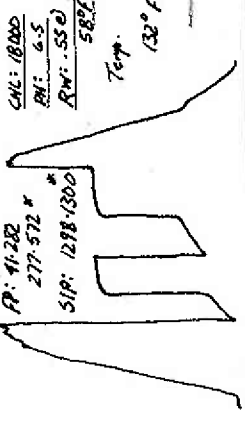
ls. wt. clay  
 Shaly  
 ls. wt. Foss. w/ VST chky  
 ls. Foss. w/ VST chky  
 Sh. clay. br.  
 ls. Foss. w/ VST chky  
**81XC 4091-1682**  
 Sh. clay  
 ls. Foss. w/ VST chky  
 Sh. Red. 118 loc. Yellow  
 ls. Foss. w/ VST chky  
 Sh. Orange. Bl. D. G.  
 A. Orange  
 ls. w/ sil. Foss. w/ Red. Sh. Stone  
 Sh. Red. G.  
 ls. Foss. w/ VST chky  
**PAYNEE 4195-1786**  
 ls. clay. w/ sil. Foss.  
 A. Orange  
 ls. Foss. w/ VST chky  
 ls. G. Br.  
 ls. G. Silty  
 ls. Dark Silty  
 Sh. Dark. Blue. Silty  
 Sh. Blue. Sand.  
**FORT SCOTT 4289-1880**  
 ls. Foss. w/ VST chky  
 ls. w/ sil. Foss. w/ VST chky  
 VST chky. Silty. w/ sil. Foss. w/ VST chky  
 ls. Foss. w/ VST chky  
**CHEROKEE 4311-1902**  
 Sh. clay  
 ls. w/ sil. Foss. w/ VST chky  
 Sh. clay  
 ls. Foss. w/ VST chky  
 Sh. Blue. Sand.  
 ls. G. Br. w/ sil. Foss. w/ VST chky  
 Sh. Brown. Blue. G.  
 Sh. Blue. Sand.



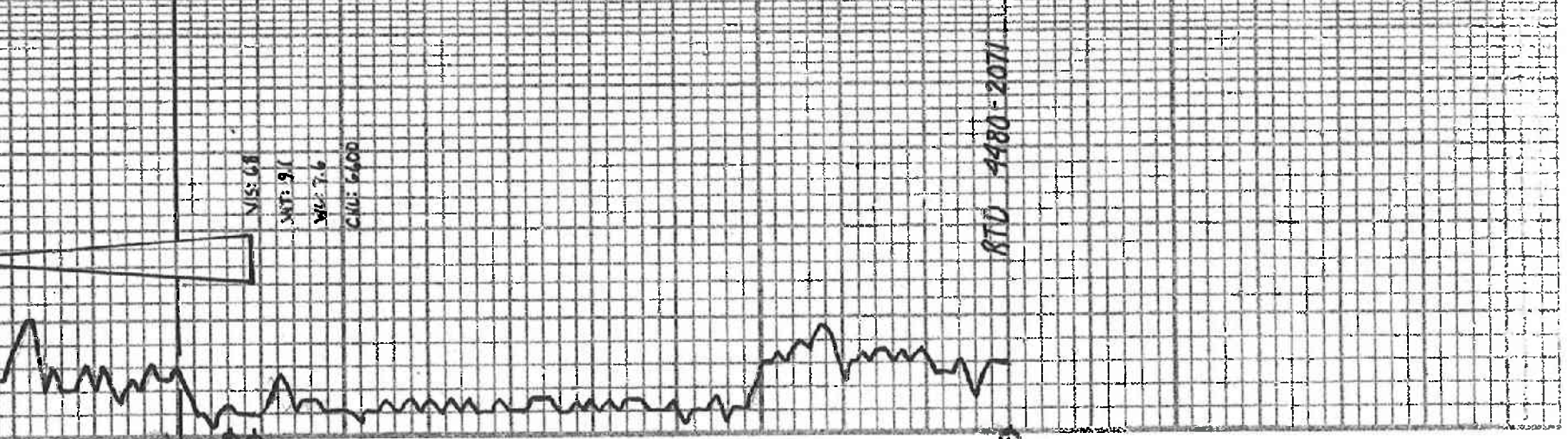
4100  
 4200  
 4300

**DST (17) 4309-4389**  
 15' DEN: Bottom w/ chky 7' in.  
 2' DEN: " " 7 1/2"  
 30.45-45.60  
 No. 575 WEM (AT/100 53/M)  
 630 SHW (00/100 10/M)

Sta. 575' WEA (47/100 53/14)  
 630 54W (88/10 12/14)  
 TP: 1205'



Sh. Blue Horizon  
 Sh. Blue Co. Yellow  
 Yellow - No. 15 Coalbed  
 Sh. Blue Yellow  
**MISSISSIPPI CHERT 9380**  
 A. w. 1/2" - 1" Frag. chert  
 R. 1/2" - 1" Frag. chert  
 Dull Flour. Mosaic  
 A. w. 1/2" - 1" Frag. chert  
 B. 1/2" - 1" Frag. chert  
 Dull Flour. Mosaic  
 A. w. 1/2" - 1" Frag. chert  
 B. 1/2" - 1" Frag. chert  
 Dull Flour. Mosaic  
 A. w. 1/2" - 1" Frag. chert  
 B. 1/2" - 1" Frag. chert  
 Dull Flour. Mosaic  
 A. w. 1/2" - 1" Frag. chert  
 B. 1/2" - 1" Frag. chert  
 Dull Flour. Mosaic



V.S. 61  
 S.W. 91  
 W.P. 7.6  
 C.W. 6600  
 RTD 4480-2071

