

# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>RAYMOND OIL COMPANY, INC.</u>	ELEVATIONS
LEASE <u># 1 BAIRD REV TRUST</u>	KB <u>3307</u>
FIELD <u>WILDCAT</u>	DF _____
LOCATION <u>2062' FSL # 2017' FEL</u>	GL <u>3302</u>
SEC <u>25</u> TWP <u>6s</u> RGF <u>36W</u>	Measurements Are All From <u>3307 KB</u>
COUNTY <u>THOMAS</u> STATE <u>KANSAS</u>	
CONTRACTOR <u>L. D. DRILLING, INC.</u>	CASING
SPUD <u>9-29-14</u> COMP <u>10-10-14</u>	SURFACE <u>8 5/8" @ 340'</u>
RTD <u>4876</u> LTD <u>4876</u>	PRODUCTION <u>5 1/2" @</u>
MUD GP <u>3543</u> TYPE MUD <u>CHEMICAL</u>	ELECTRICAL SURVEYS
	DUAL IND., DENS-N. MICRO, SONIC

SAMPLES SAVED FROM \_\_\_\_\_ 3800 TO 4876

DRILLING TIME KEPT FROM \_\_\_\_\_ 3800 TO 4876

SAMPLES EXAMINED FROM \_\_\_\_\_ 3800 TO 4876

GEOLOGICAL SUPERVISION FROM \_\_\_\_\_ 4000 TO 4876

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES	
ANHYDRITE	2910-397	2912-395	
B/ANN.	2946-361	2948-359	
WAB., STOTLER	3808-501	3807-500	
HEEBNER	4116-809	4119-812	
LANSING	4164-857	4163-856	
B/KC	4418-1111	4420-1113	
PAYNEE	4532-1225	4530-1223	
FORT SCOT	4598-1291	4595-1288	
CHEROKEE	4626-1319	4624-1317	
MISSISSIPPI	4774-1467	4770-1463	



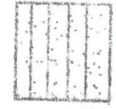






1000

REMARKS

9-29-14 SPUD  
 9-30 @ 343'  
 10-1 @ 1321'  
 10-2 @ 1989'  
 10-3 @ 3105'  
 10-4 @ 3765'  
 10-5 @ 4255'  
 10-6 @ 4368'  
 10-7 @ 4495'  
 10-8 @ 4555'  
 10-9 @ 4876'  
 10-10 @ 4876'

API: 15-193-20931

LEGEND

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

DRILLING TIME IN MINUTES  
 PER FOOT  
 Rate of Penetration increases



LITHOLOGY

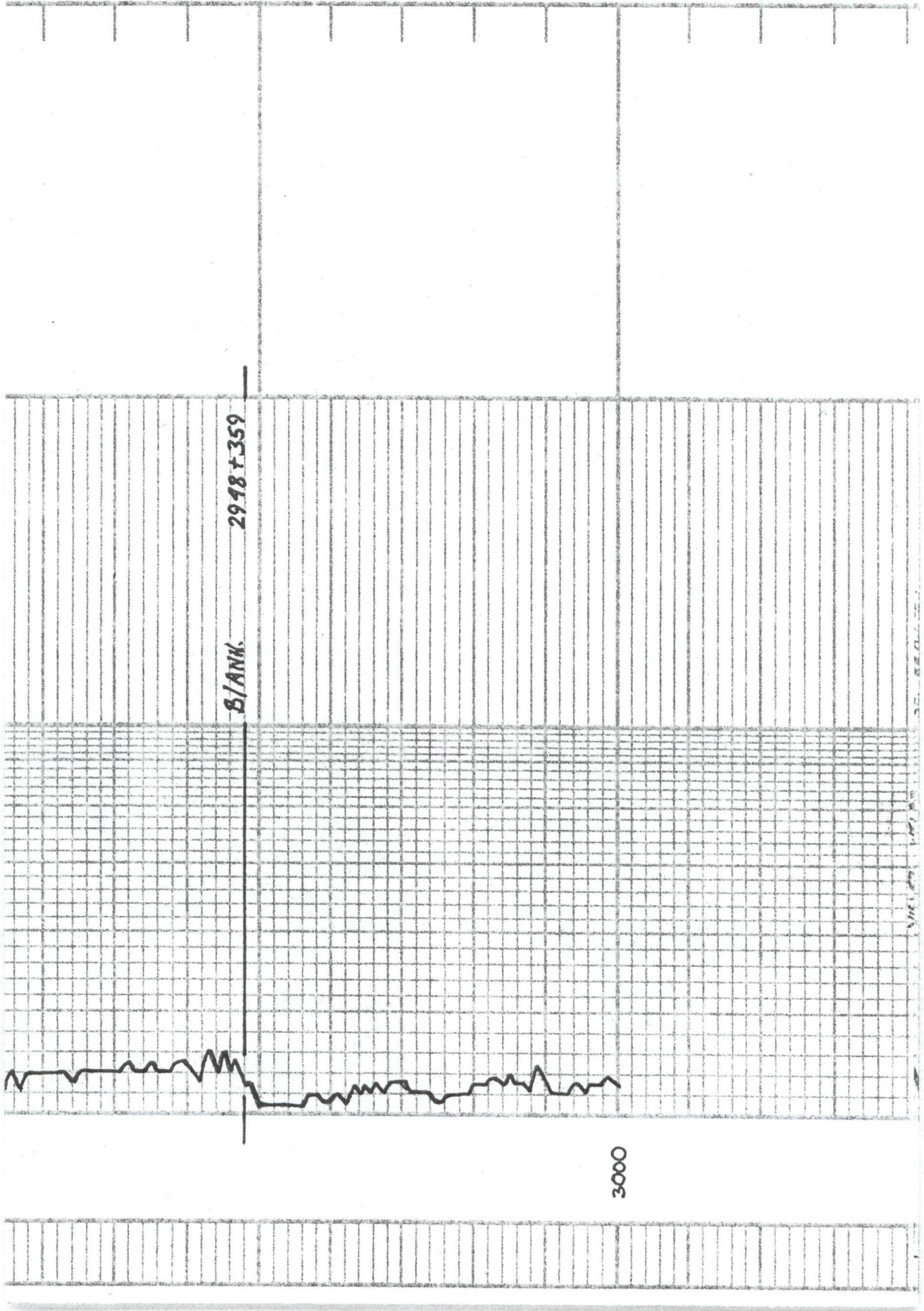
DEPTH  
 2900

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 2912 + 395

SHOFO1-11

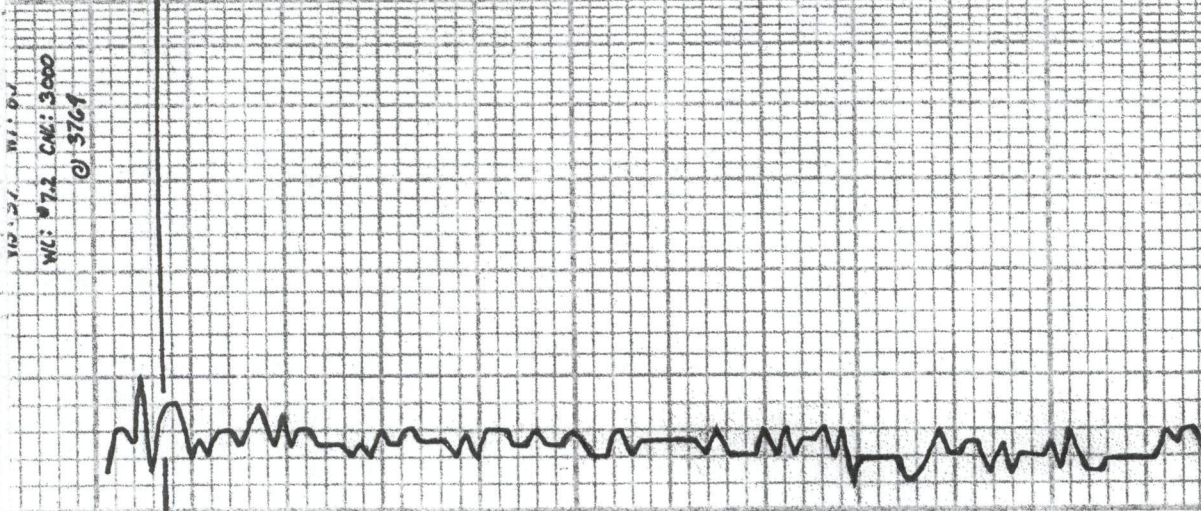


B/ANK.

2918 + 359

3000

YD: 27  
WC: 7.2 CM: 3000  
@ 5761



Samples are tagged

WAB STOTLER 3807-500

ss. Gy. Sil. Foss.

Sh. Sil.

ss. w/ YSD. Foss. Sil. Chalk.

Sh. Bl.

ss. w/ Sil. Foss. YSD.

ss. w/ Gy. Sil. Foss. Bl. Sh.  
Dk. Bl. Bit at Str. F.R. Nodules.

Sh. Bl.

ss. Sil. YSD. Chalk.

Sh. Bl.

ss. w/ Sil. Foss. Sil. Chalk.

ss. Gy. Dol. YSD. Foss.

Sh. Bl.



3800

3900

Es. wt. St. Foss. F. V. p  
DE. H. St. F. F. No. 0.082

sh. Hlg.

Es. wt. Foss. S. A.

Es. G. D. a.

Sdy. sh. L. H. F. H. G. S. H. R.

Sh. D. G. R. p. k.

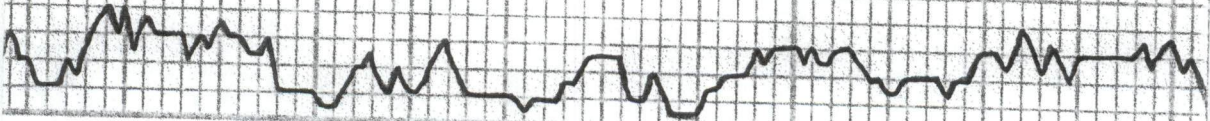
Es. F. a. S. A.

Es. L. G. D. M. V. S. C. H. p.

Es. wt. a. F. S. S. C. H. p.

sh. R. S. y.

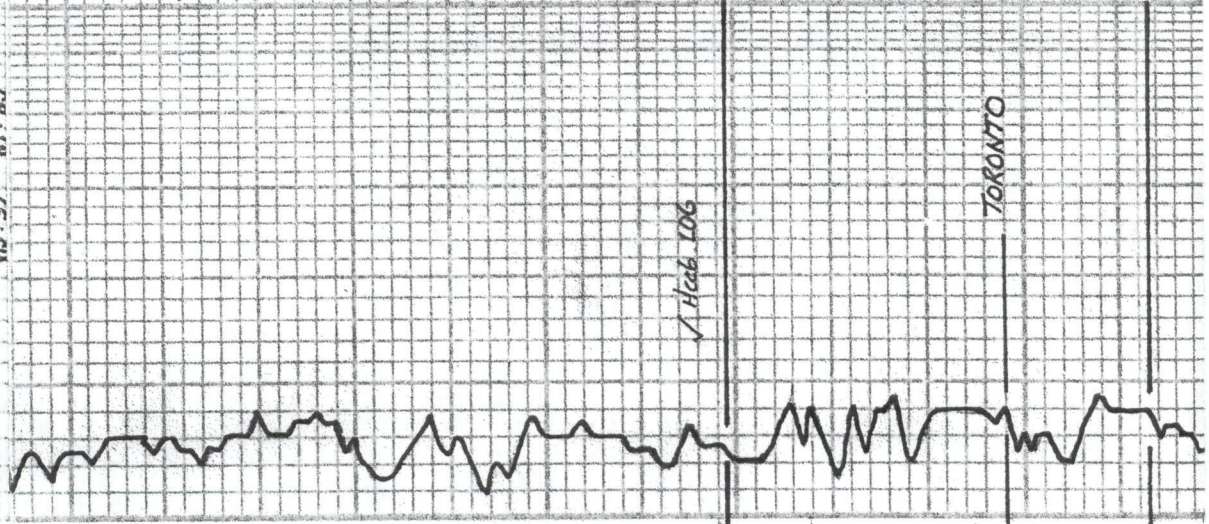
SL. D. R. C.



4000



10.27 81.82



4100

ES. T. h. g. Sl. Pass. E. h. g. Sl. Pass. DE. P. S. H. 1/2 IN. HOODS.

Sh. Purple

ES. G. Sl. A

Sh. Gray Sdy

ES. T. h. Sl. A

ES. L. g. Sl. Pass. Sl. Chilly.

ES. L. g. Sl. Pass. Sl. Coliciti.

HEEBNER 9119-812  
Sh. Bk Carb.

ES. L. g. Sl. Pass. Sl. Pass.

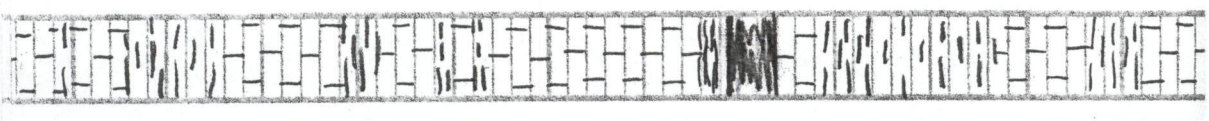
Sh. L. g. Sl. Sdy.

ES. Sl. Pass. Sl. A

Sh. G. L.

LANSING 9163-856

ES. Sl. Chilly.



ls. wt. Foss. Fr. V. sp. Blk. Tamy. Str. To Blk. Moyal  
No odor

Sh. Bl. Calc.

ls. wt. Foss. vsi. Chly. Fr. V. sp. Blk. dd. Str.  
To. M. V. SN. T. P. No odor

Sh. Bl.

ls. wt. Str. fossil. Si. Chly.  
Available

ls. Chly. vsi. A

ls. G. Da.

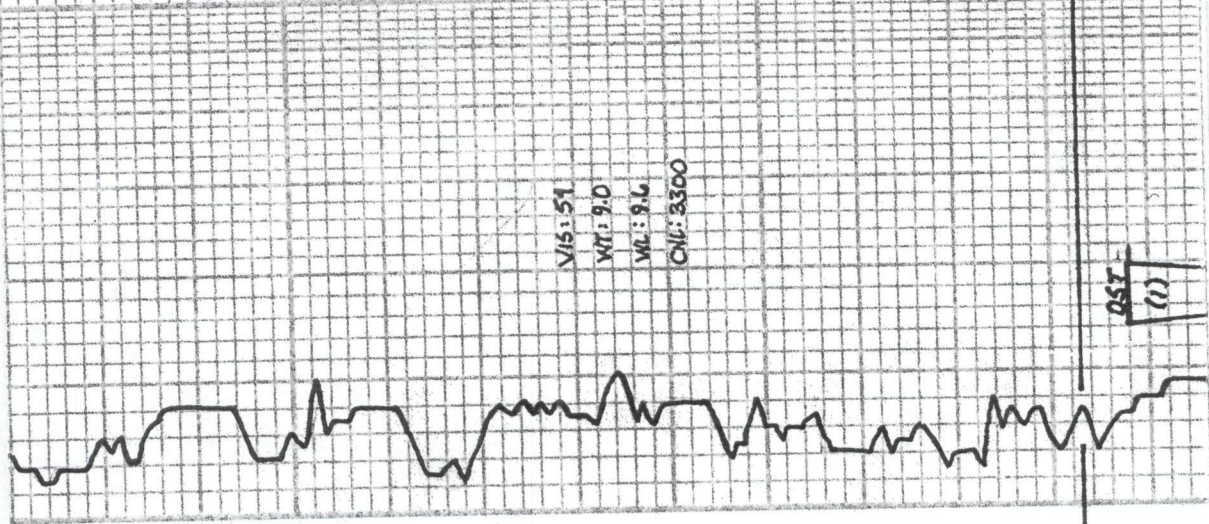
ls. wt. Si. Foss. Si. A

ls. T. wt. Si. Foss. Si. A. Si. Calcite.

ls. To. Si. Foss. Si. A. Calcite.

MUNCIE CREEK 4283-976  
Sh. Bl. Calc. ls. Chly. vsi. Foss.

Sh. T. Calc.



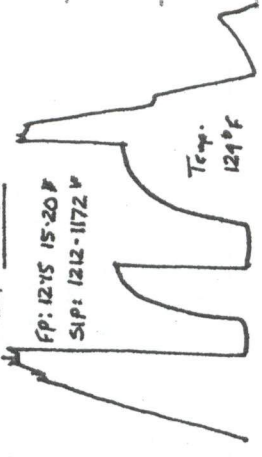
4200



DST (1) 4288-4368

1500EN: Blow built to 3/4"  
2400EN: Surf. blow dried 5 min.  
30:60-45:75

Rec. 15' Mud



FP: 121S 15-20 P  
SIP: 1212-1172 P

Tool Sample: 100% Mud

ls. Tan. V.Si. Foss. P. Veg. p  
DEBN. Si. dtd SK. T. Fo No Odor.

Sh. Gy. Aly

ls. wh. Si. Foss. P. Veg. p  
Br. DEBN. Si. V.Si. Foss. No Odor.

ls. wh. Si. Foss. Si. A

Sh. Bl.

ls. wh. Si. Foss. Si. A

ls. wh. Foss. Si. Foss. Si. A

STARK 4363-1056

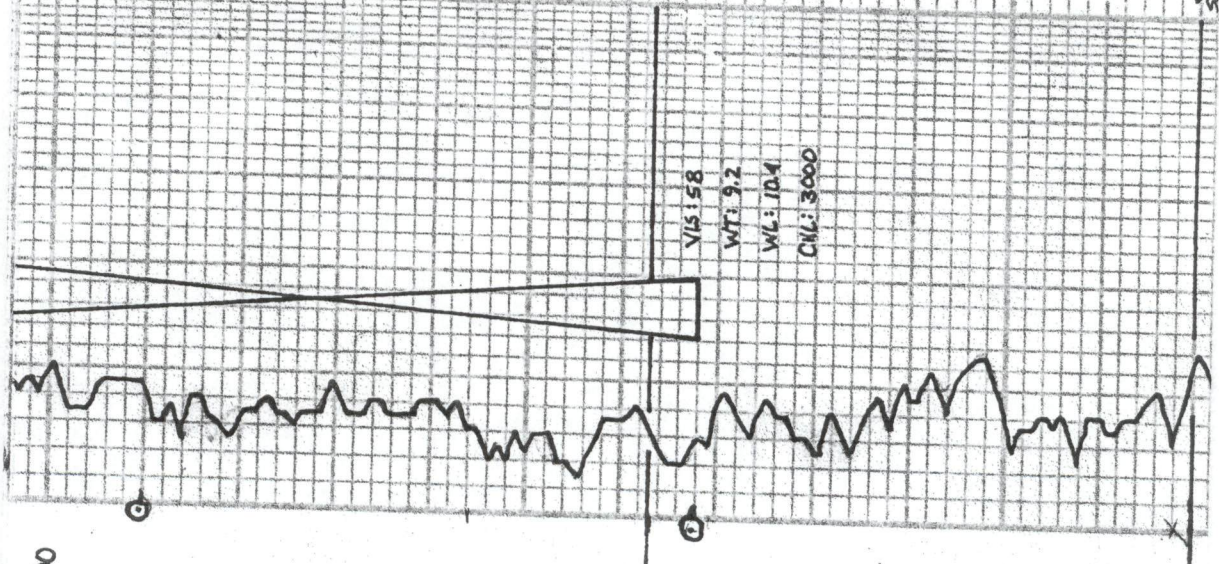
Sh. Bl.

ls. wh. Aly. Si. Foss. St. Chk.

Sh. DEG. G.

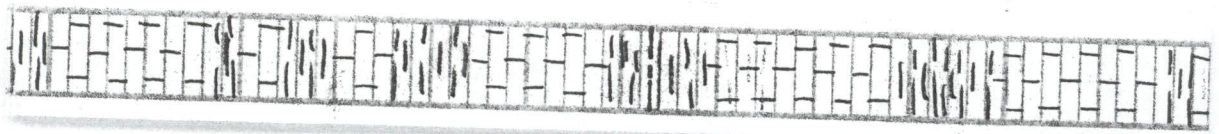
ls. Tan. Si. Foss. Si. A Dev.

8/KC 4420-1113  
Sh. Bl.



4300

4400





MARMATON 4428-1121

ls. to ss. Silty

Sh. silty

ALMAMONT 4454-1147

ls. w. silty ss. fine

Sh. silty

ALTA 4972-1165

ls. to ss. silty

ss. to sh. silty

Sh. silty

ls. w. sh. silty

ss. to sh. silty

Sh. silty

ls. to ss. silty

ss. to sh. silty

Sh. silty

ls. to ss. silty

ss. to sh. silty

Sh. silty

ls. to ss. silty

ss. to sh. silty

Sh. silty

ls. to ss. silty

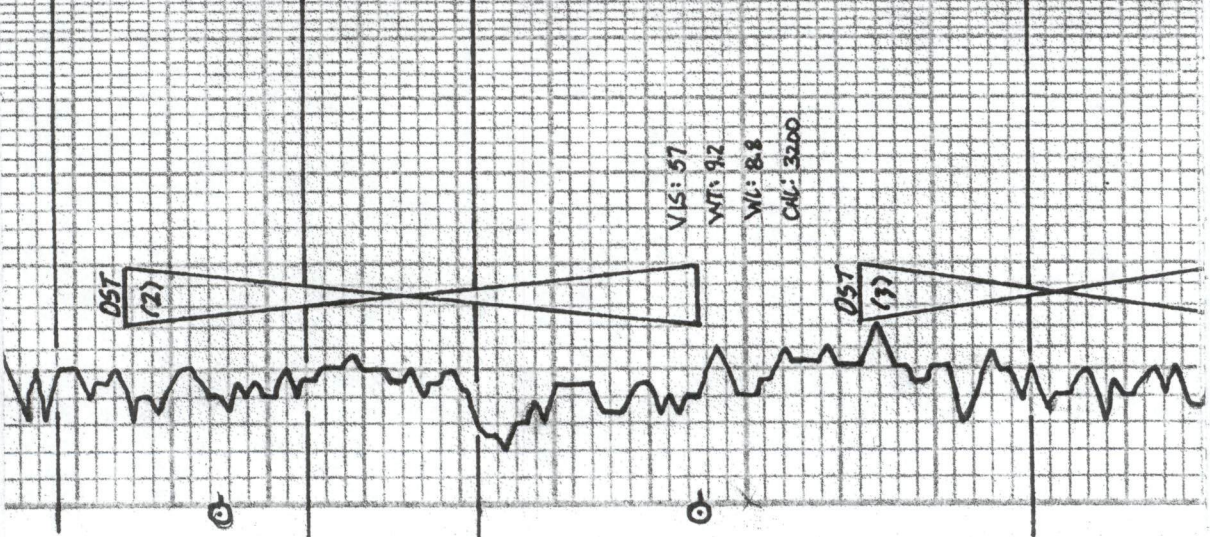
ss. to sh. silty

Sh. silty

ls. to ss. silty

ss. to sh. silty

Sh. silty



VIS: 57  
 WT: 9.2  
 WL: 8.8  
 CW: 3200

4500

DST (2) 4435-4495

1500 ft: Bottom bucket 11 MIN.

2400 ft: " " " "

3000 ft: 30.60-45.90

Rec. 535 GIP

219 CO 30.8 (47% M)

63 MO (53% M)

126 HUCM (80% M)

TT: 400

FP: 15-90

91-170

SIP: 1329

1321

Temp: 134 F

Tool Sample: 100% Oil

88: Bottom Bucket

88: B"

DST (3) 4512-4555

1500 ft: Bottom bucket 1 MIN.

2400 ft: " " " "

3000 ft: 30.60-45.90

Rec. 1250 GIP

1900 CO 23.5 (47% M)

63 M60 (37% M)

TT: 1045

FP: 185-504

548-782

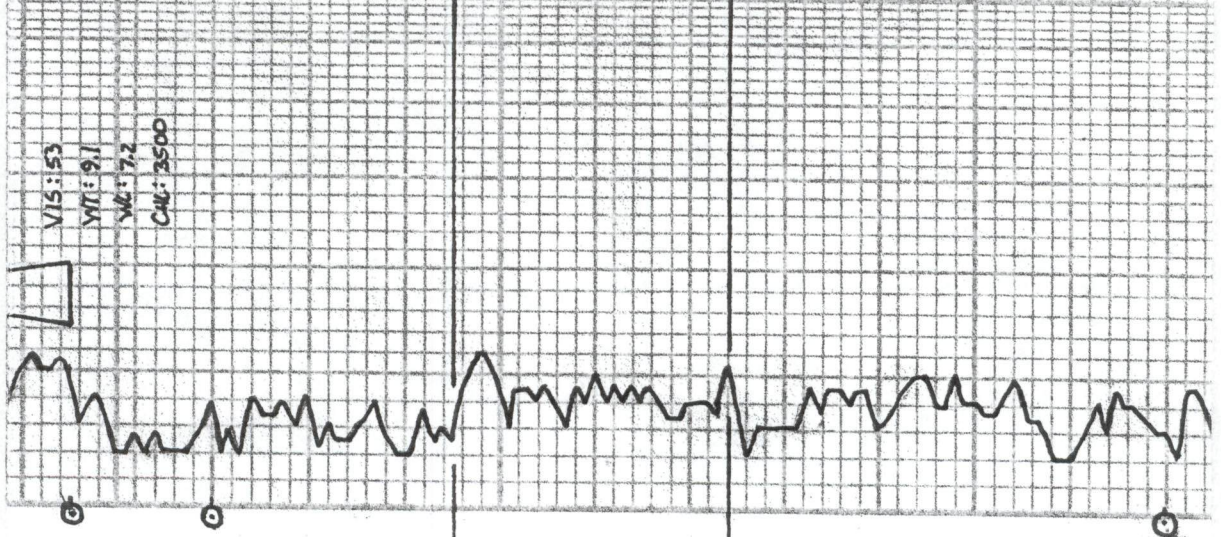
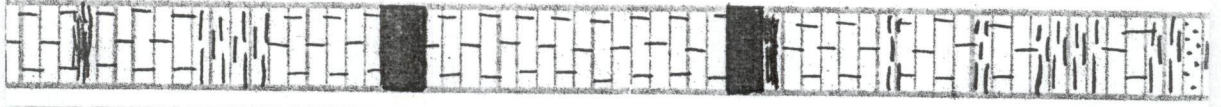
SIP: 1148-1079

Temp: 150

Tool Sample: 89% Oil 11% Mud

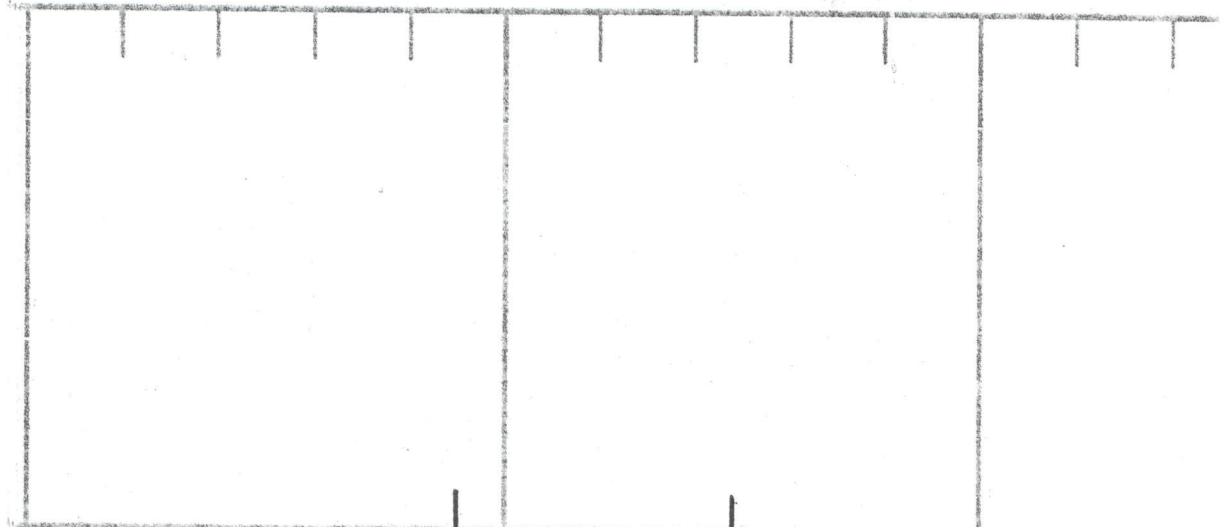
88: Bottom Bucket

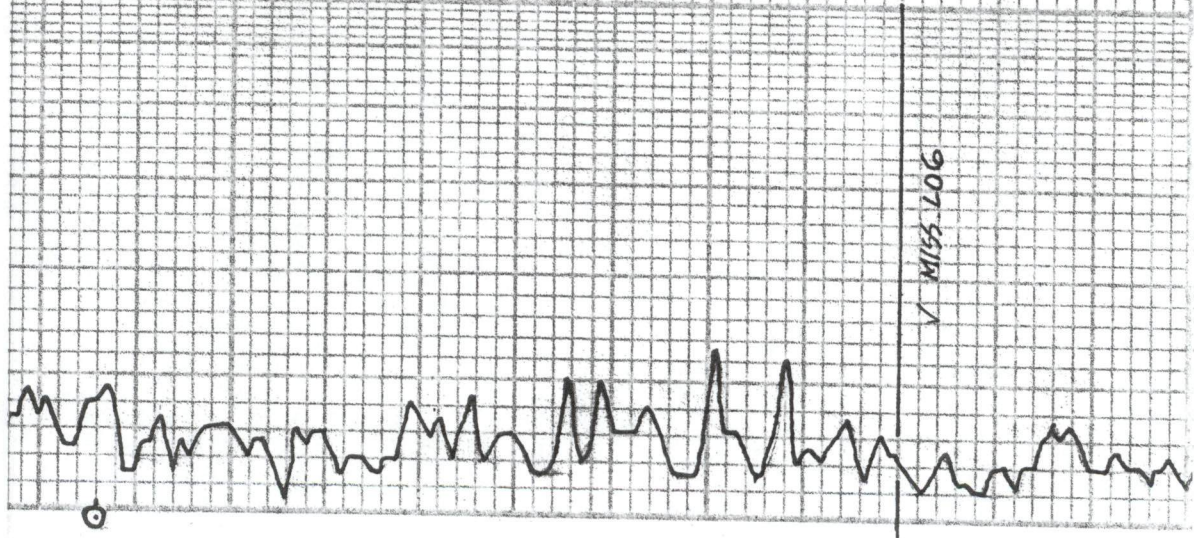
88: B"



VIS: 53  
WT: 9.1  
WG: 7.2  
CAL: 2500

Sh. Bkt.  
ls. wt. Orange Chilly. - Vchilly.  
A whilly.  
Sh. Flyg.  
ls. Flyg. - 1811-1818 - VSEA  
A fly. wh.  
Sh. Bkt. Carb.  
**FORT SCOTT 4595-1288**  
ls. Flyg. - 1811-1818 - S. A.  
At Bl. Fly. - 1811-1818 - S. Fly. - Col. Carb.  
A Bkt. S. Fly.  
**CHEROKEE 4624-1317**  
Sh. Bkt. Carb.  
ls. Flyg. - 1811-1818 - VSEA  
ls. wt. Chilly.  
Sh. Flyg. - 1811-1818 - VSEA  
ls. wt. Flyg. - 1811-1818 - VSEA



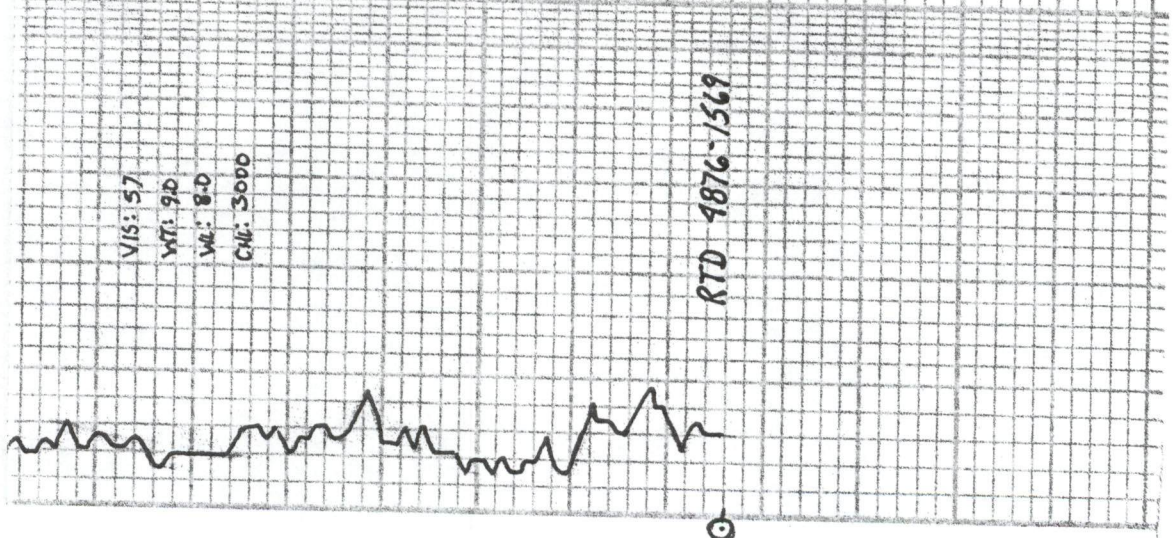


Sh. Glsy. Purple. Rd  
 Sl. Md. Co. V. Co. Gls. Sub. Rd. Poorly Sorted  
 w/ mica. Incl.  
 Sh. Rd  
 Sl. Rd. Fr. Md. Co. Sub. Rd  
 Sl. Rd. Purple. Md. Co. Gls. Sub. Rd.  
 Sh. Yellow. Gls. Blue. Slsy. Purple  
 Sl. wd. Fr. Md. Co. Sub. Rd. Fr. Slsy.  
 Sh. Rd. Yellow  
 Sl. wd. Fr. Fr. Md. Co. Sub. Rd. Fr. Slsy.  
 Sh. Yellow, A. Orange  
 MISSISSIPPI 4770-1963  
 A. v. h. g. Slsy.  
 Dots. Fr. Glsy. Fr. Slsy. Slsy. Slsy. etc.  
 Sh. Purple. Yellow. A. Yellow  
 Dots. Fr. Slsy. Fr. Slsy. Slsy.

4700

4800

MISS LOG



VIS: 57  
 WTS: 920  
 WE: 80  
 CMC: 3000

RTD 4876-1569

4900

Sh. Gy.  
 Dol. Gy. V. Faxia Suc. w/ Def. bed.  
 Sh. Arg.  
 Dol. Gy. V. Faxia Suc.  
 Dol. Arg. V. Faxia 'Muggy' suc.  
 Es. R. DEF. 001. Foss. Si: A. Dal.

