

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-524-0908 MONTAKE

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	RAYMOND OIL COMPANY, INC.	ELEVATIONS
LEASE	# 1 J. BAIRD TRUST	KB 3309
FIELD	WILDCAT	GP
LOCATION	1127' FSL & 1408' FWL	GL 3304
SEC	29 TWP 6S RGE 35W	Measurements Are At
COUNTY	THOMAS STATE KANSAS	From 3309 KB
CONTRACTOR	L.D. DRILLING, INC.	CASING
SPUD	11-14-16	THROAT 8 5/8" @ 300'
RTU	4876 LTD 4876	PRODUCER
MUD WT.	3565 TYP. MUD	ELECTRICAL Meters
	CHEMICAL	DUAL IND., DENS=N, MICRO

STARTS BARD FROM	3600	TO	4876
DEPLETS TIME KEPT FROM	3500	TO	4876
SAMPLES REMOVED FROM	3600	TO	4876
GEOLOGICAL SUPERVISION FROM	3700	TO	4876
GEOLOGIST ON WELL	KIM B. SHOEMAKER		

FORMATION TOPS	LOG	STARTS	
ANHYDRITE	2906+403	2906 + 403	
B/ANH.	2942+367	2943 + 366	
WAB., STOTLER	3818+509	3819 - 510	
HEEBNER	4127-818	4128 - 819	
LANSING	4170-861	4170 - 861	
B/KC	4426-1117	4429 - 1120	
PAWNEE	4547-1238	4547 - 1238	
FORT SCOTT	4610-1301	4607 - 1298	
CHEROKEE	4636-1327	4636 - 1327	
MISSISSIPPI	4788-1479	4791 - 1482	

REMARKS

11-14-16 SPUD
11-15 @ 311'
11-16 @ 1900'
11-17 @ 3010'
11-18 @ 3554'
11-19 @ 3980'
11-20 @ 4370'
11-21 @ 4493'
11-22 @ 4620'
11-23 @ 4617'
11-24 @ 4876'

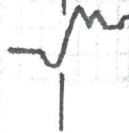
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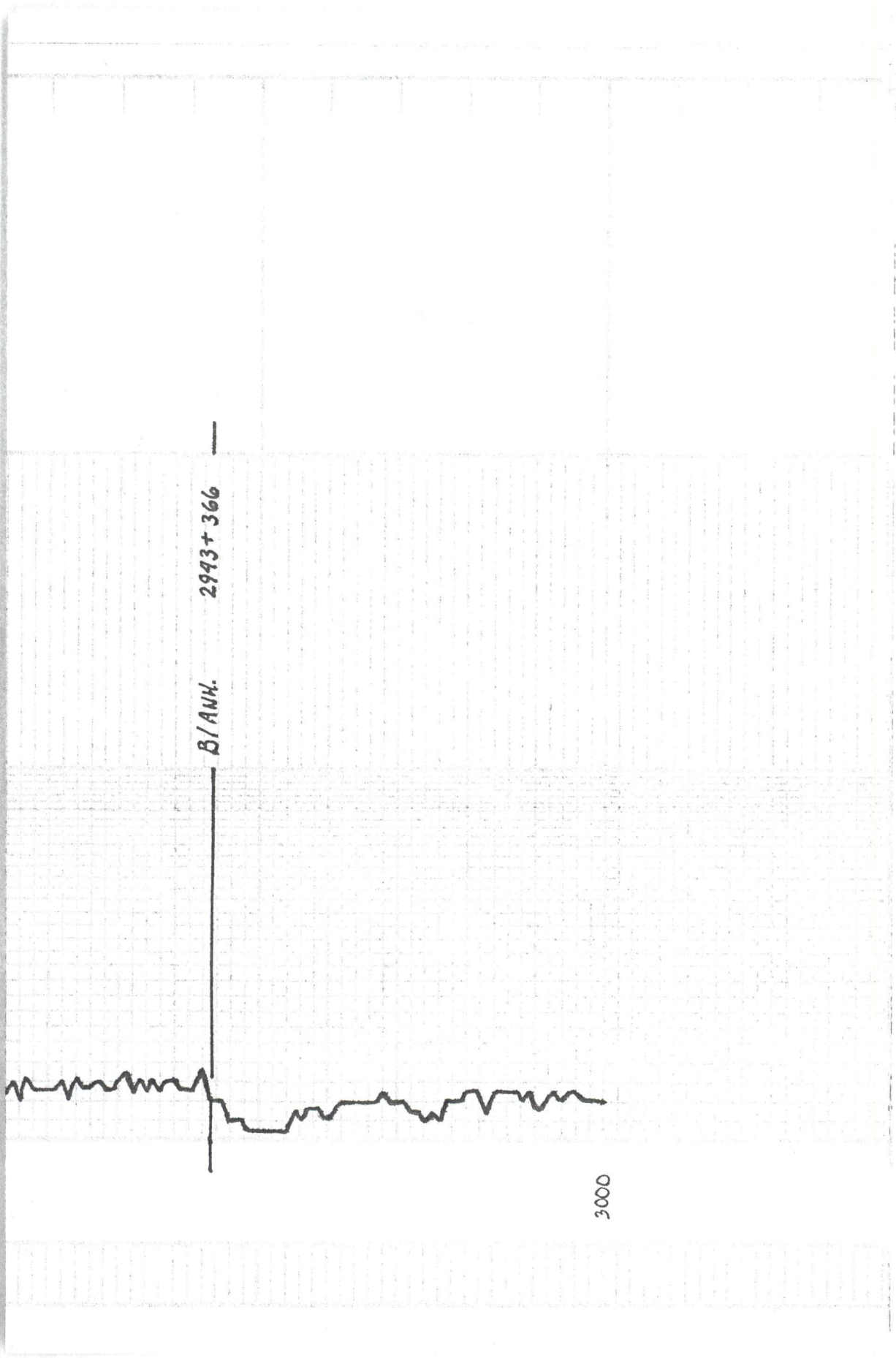
LEGEND



2900

ANHYDRITE 2906 + 403





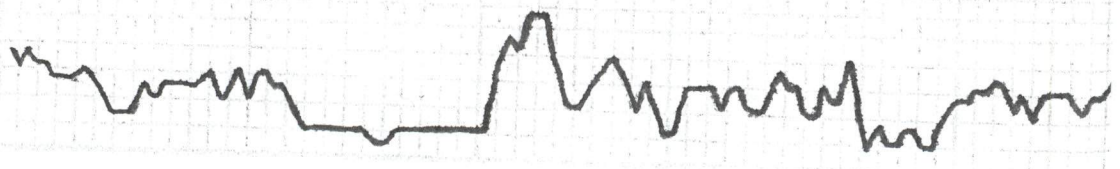
B/ANK. 2943+366

3000

3500

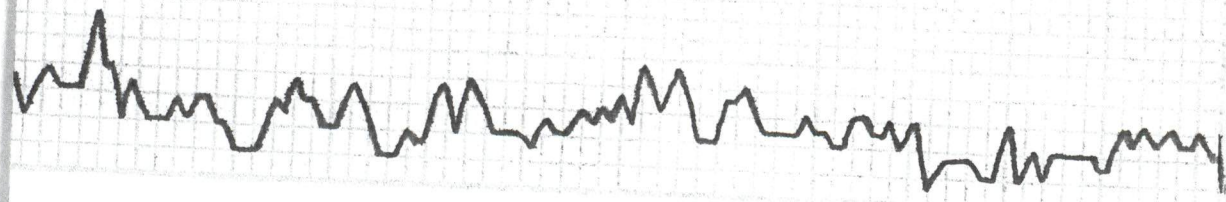
3600

VIS: 30
WT: 9.4
WL: NC
CRL: 29,000



Samples are Lagged

Sh. 210. 5dV.



3700

LS. wt. 5.5 Foss. Fr. P. Veg of
 Alek del 57W. No Delat

Sh. Rd

LS to Yellow

LS. wt. 5.6 Foss. Sil. A

LS wt chalky.

Sh. Rd

Sh. Ldg. Silty Sdy.

Sh. Rd

Δ Orange

LS. Ldg. VSE Foss.

Sh Gp. Sdy.

Sh. Pink. Rd.

ls. Dol. Fxln Svc.

Sh. Rd. Pink

ls. To VSi Foss.

Sh. Rd

Sh. Lgy. Silly. sdy.

WAB., STOTLER 3819-510

ls. To Lg. St Foss.

ls. Dol. V Fxln Svc. P. P. P. P. P.

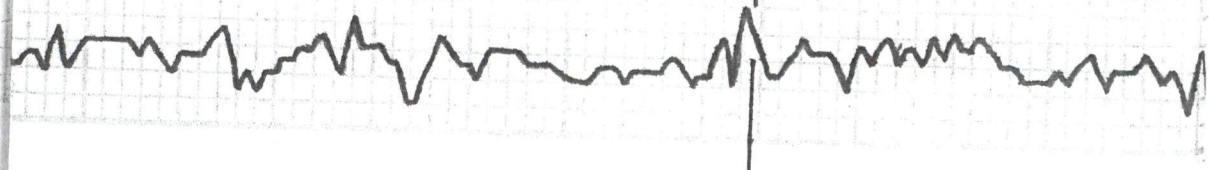
L1 Br Sat Str. VcdSFD Dull Floor F. odor (3819)

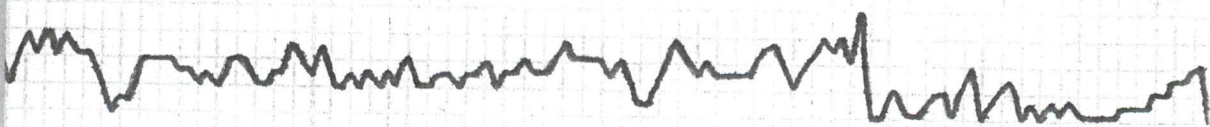
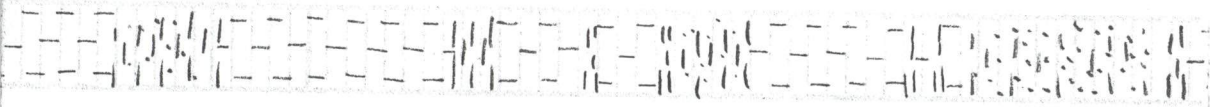
ls. To wt St Foss.

Sh. Rd.

ls. Int St Foss. ool. P. Visc
scat. DE Br. Bk. Str. VSSFO Noodor

3800





3900 ○

LS. w/ St. Foss. Si:A Calatitic

Sh. Rd

LS. Ltg. Si: Foss w/ T. Clauv.

LS. Tn Foss Si:A

Sh. Rd. Bt

LS. w/ G. Foss Calatitic

Sh. Rd Sdy.

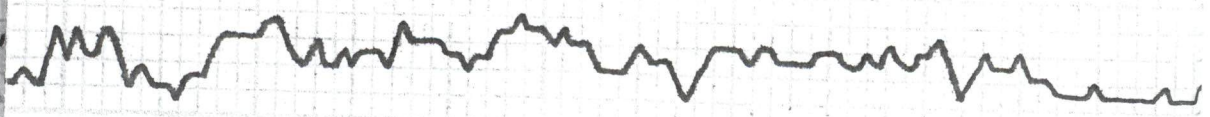
LS. w/ Si: Foss w/ Blt dld SH (3860)

LS. Tn Foss.

Sh. Ltg Sdy. Silty

Sh Ltg. Sdy

NIS: 59
WT: 89
WL: 8.0
CIL: 3000



46. wt Foss Slid

45 wt 41g. Foss Calcitic

45. wt 41g. St Foss.

Sh. 41g. Sdy.

Sh. 41g. Silty. Sdy.

45. 41g. VSl: Foss Sl: A

Sh. 41g. Sdy. Sh 4 Blue-g.

45. Tn Slid

Sh. 4 Blue-g.

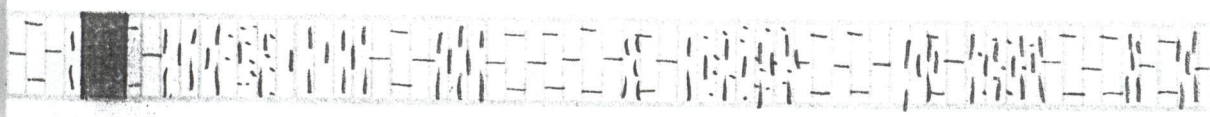
45. Tn VSl: Foss Sl: A

45. wt Foss St Calcitic

45. 41g. VSl: Foss VSl: A

4000

4100



HEBNER 4128-819
Sh. Blue Carb.

Sh. Lt. G. Cr.

Sh. Lt. Blue G. Silty

Ls. wt. Sl: Foss w/ Blk Terry Str

LANSING 4170-861

Ls wt wt Sl: Foss. Foss Calcitic

Sh. Dk. G.

Sh. Red Sdy.

Ls. wt Sl: Foss vsi. Chlky.

Sh. Red

Δ orange

Sh. Lt. G. Cr.

Ls. G. Sl: Calcitic

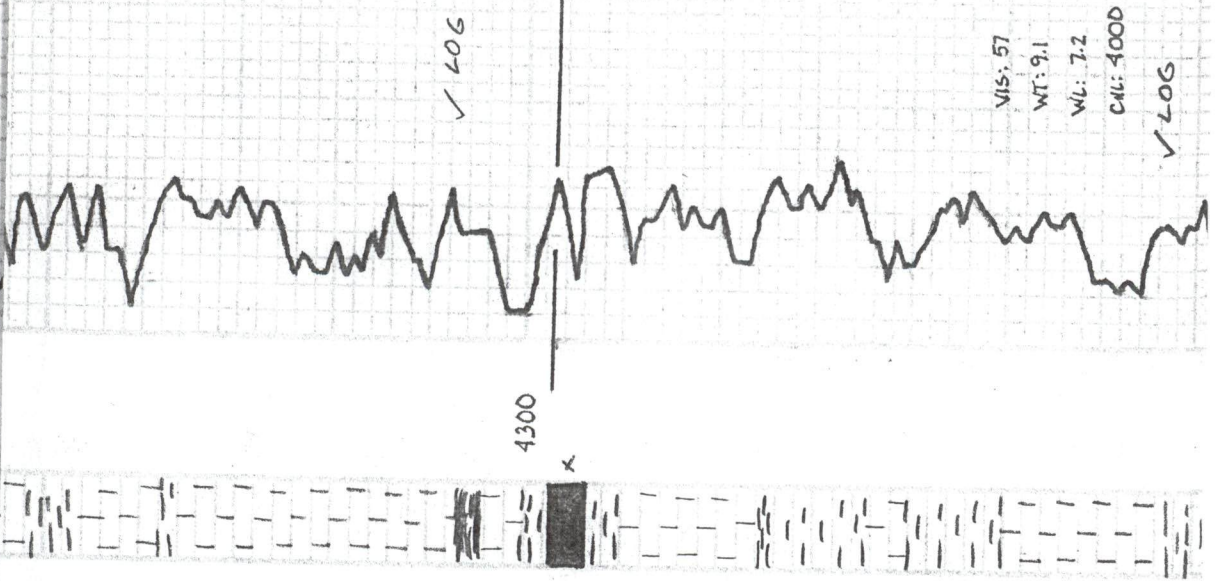
Sh. Lt. G.

TORONTO

Sh. Lt.

4200

45. wt Foss Si: A Si: Calytic
 Sh. Rd.
 45 wt g. Foss Calytic
 45. 41g. VSi: A
 45. wt Foss Si: Foss Si: Cally.
 Sh. 866 Carb.
 45. wt Foss Cally.
MUNCIE CREEK 4303-994
 Sh. 41g.
 45. To g. VSi: Foss.
 Sh. 41g.
 45. wt Si: Foss P. VSi: F
 De Br. 866 del. SK To Fo No Flour
 No odor
 Sh. Rd.
 45. wt 41g. Si: Foss Si: Cally.
 45. wt Si: Foss. Foss Cally.
 Sh. 41g. - 41 Blue g.
 STARK 4372-1063





Sh. Rd.

LS wt. Sl. Foss. VSI. Chilly.

Sh. Lly. Co.

LS wt. Foss. Cretacis

B/KC 4429-1120

Sh. Pl. - Soft Gummy.

MARMATON 4440-1131

LS wt. G. Foss. Sl. Foss. P. Fish
Dk. Bl. Sp. Sh. SSSD No Flour
No odor

Sh. Pl. Silty

LS. Lly. VSI: Foss.

Sh. Lt Blue-Gy. Gummy.

LS. wt. Foss. Reef Mat. Colonial Coral

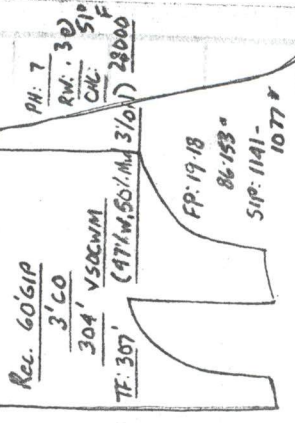
(1) piece of T. DeSki No odor

Sh. Rd.

DST (1) 4426-4493

1st OPEN: Bottom bucket 22 min.
2nd OPEN: " " 30 1/2 min.
" " " " 30 - 60 - 45 - 75

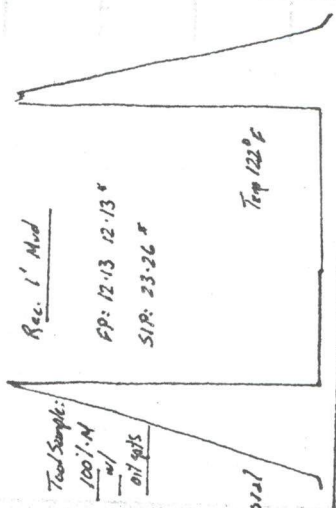
SS: None
BB: Wave Surface



Tool Sample: 98' W 2 1/4" Mud Temp. 128°F

DST (2) 4493-4515

1st OPEN: Blow built to 1"
2nd OPEN: " " 1/8"
" " " " 30 - 60 - 45 - 90



Tool Sample: 100' M, 1/2" w/ 0.17 gals.

4500

WT: 9.2
 VL: 1.0 (7)
 CIL: 4400

DST (3)

4600

WT: 58
 VT: 9.3
 WL: 9.6
 CIL: 5000

45. wt. Ltg. Sl: Foss. Foss. P. V. Vis. p
 Bl. Spid. SW. YSSFD No Flour Noodor

45. Ltg. Silky.

Sh. BLE

Sh. Org. Gr. G.

PAWNEE 4547-1238

45. wt. Ltg. Sl: Foss. P. V. Vis. p
 Bl. Spid. SW. YSSFD No Flour Noodor

45. In Bl. G. Sl: Foss. Sl: A. P. V. Vis. p
 Bl. Spid. SW. YSSFD No Flour Noodor

45. G. Sl: A

Sh. BLE

45. wt. Foss. Sol. Sl: A

Sh. Ltg. G.

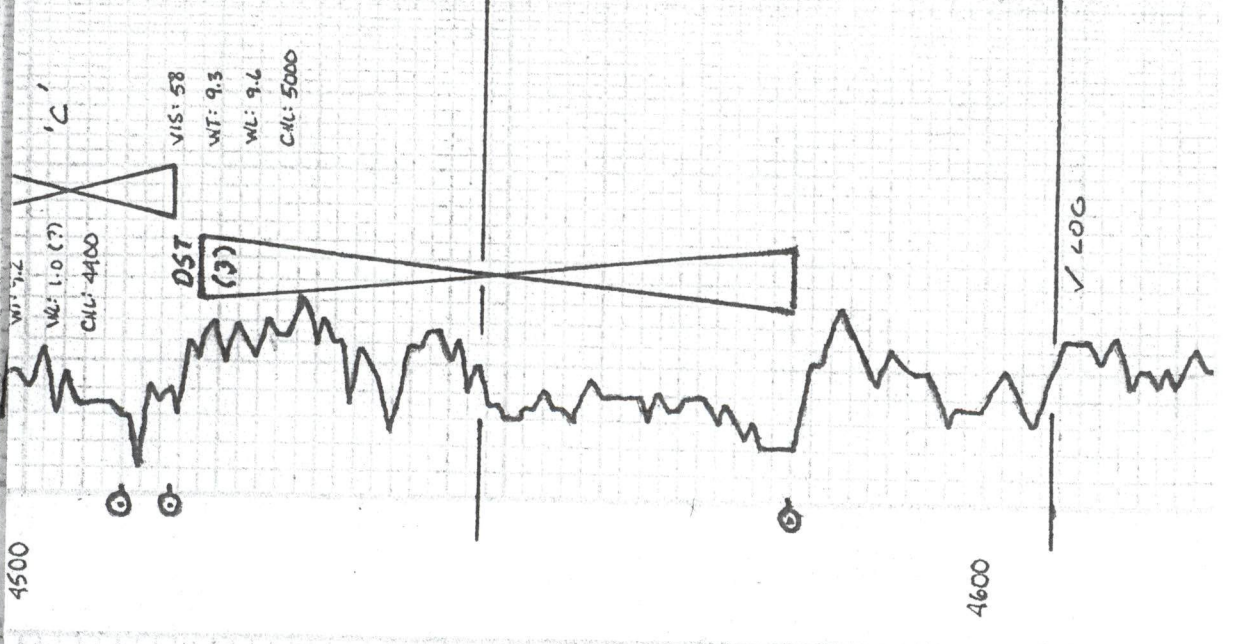
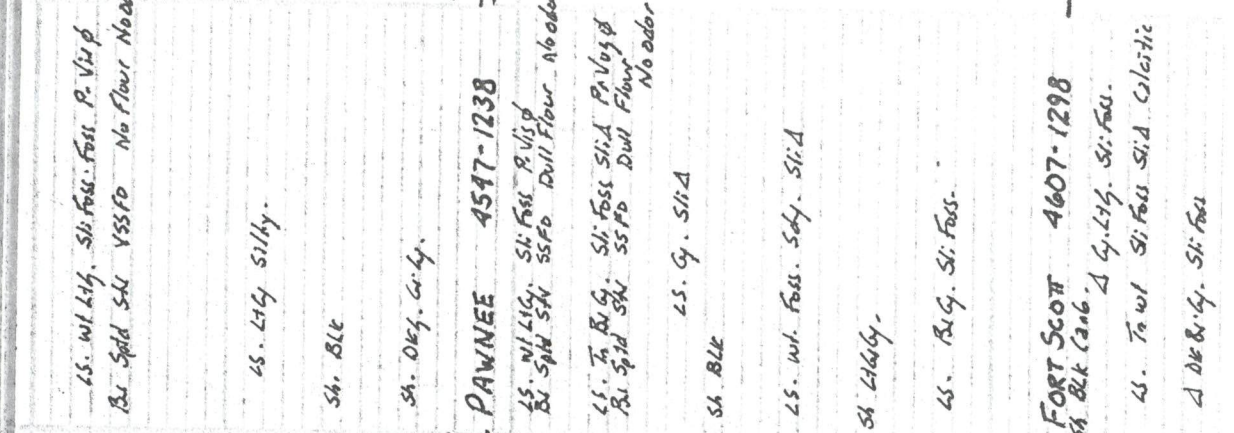
45. Bl. G. Sl: Foss.

FORT SCOT 4607-1298

Sh. Bl. Carb. G. Ltg. Sl: Foss.

45. Tot. Sl: Foss. Sl: A. Colatic

Sh. Bl. G. Sl: Foss.



4500

4600

WT: 9.2
 VL: 1.0 (7)
 CIL: 4400

DST (3)

WT: 58
 VT: 9.3
 WL: 9.6
 CIL: 5000

45. wt. Ltg. Sl: Foss. Foss. P. V. Vis. p
 Bl. Spid. SW. YSSFD No Flour Noodor

45. Ltg. Silky.

Sh. BLE

Sh. Org. Gr. G.

PAWNEE 4547-1238

45. wt. Ltg. Sl: Foss. P. V. Vis. p
 Bl. Spid. SW. YSSFD No Flour Noodor

45. In Bl. G. Sl: Foss. Sl: A. P. V. Vis. p
 Bl. Spid. SW. YSSFD No Flour Noodor

45. G. Sl: A

Sh. BLE

45. wt. Foss. Sol. Sl: A

Sh. Ltg. G.

45. Bl. G. Sl: Foss.

FORT SCOT 4607-1298

Sh. Bl. Carb. G. Ltg. Sl: Foss.

45. Tot. Sl: Foss. Sl: A. Colatic

Sh. Bl. G. Sl: Foss.

170000: Blow built to 1"

240000: " " " Surface Blow

300000: 45-75

Rec. 20' Mud

W/ Spis. oil

FP: 11-16 15-28°

SIP: 1266-1209*

Temp: 120° F

Total Sample

98% Mud

2% Oil

VIS: 57 WT: 9.3
WT: 11.2 CML: 5000

LS. DE. RLY. Sil. Foss.

CHEROKEE 4636-1327
SH. SIL. CARB.

LS. wt 41g. Sil. Foss SH-A

LS. 41g. V. Sil. Foss V. Sil. Carb.

LS. 70g. V. Sil. Foss SH-A

Sil. Sil. LS. SH. Birefr.

Sd. weathered LS. d. w/ UHMY DE. R. BLK SH
FSPD. DE. R. - BLK. HRY. Noader
(1680)

Sd. wt 11g. Md. Fr. Co. sub. Bl. P. J. J. p
Blk. d. SH. Fibry. No. Flaw
No odor

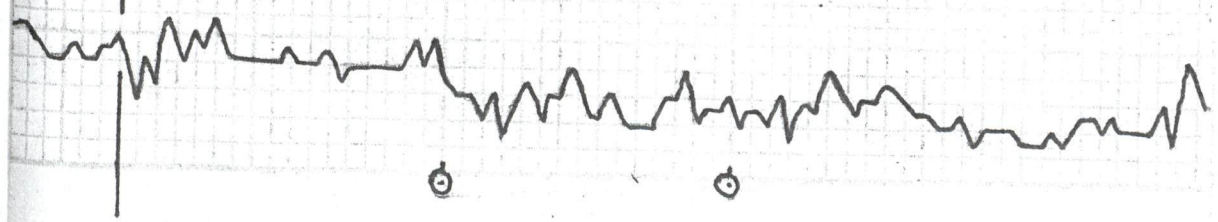
Sd. Chr. wt. Md. Co. R. Rd. 5062 Rd. Poorly Sorted

SH. Co. Purple w/ lg. Quartz weathered Crust.

Sh. Ty. Rd.

Sh. Ty. Rd. Co. Yellow

4700



sh. Ch. wt. L.L. H.L. L.L. Sub Rd.

sh. Red Yellow, G.
w. orth. Δ Yellow Cryst

MISSISSIPPI 4791-1482

Dol. T.G. V.Faxln Sui.
sh Yellow

Dol. T.G. V.Faxln Sui V.Si.Foss

sh. Yellow L.

Dol. T.G. Faxln Sui Si.Foss

LS T.Si.Foss Calcitic

Dol. T.G. V.Faxln Sui.

Δ L.G. Si.Foss.

Dol. wt V.Faxln Sui.

Δ G. L.G. Si.Foss

RTD 4876-1567

✓ LOG

4800

