

**Geologist's Report**  
**WellSight Systems**

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: SHAKESPEARE OIL COMPANY, INC. PETERSON #2-8  
Location: 850' FSL & 1750' FWL (approx. SE NW SE SW) of Section 8 - T13S - R32W  
License Number: API#15-109-21095 Region: Logan County, Kansas  
Spud Date: September 12, 2012 Drilling Completed: September 23, 2012  
Surface Coordinates: N.A.

Bottom Hole N.A.  
Coordinates: K.B. Elevation (ft): 2981  
Ground Elevation (ft): 2971 Total Depth (ft): RTD 4680 LTD 4685  
Logged Interval (ft): 3700 To: RTD  
Formation: Mississippi  
Type of Drilling Fluid: Chemical (Displaced @ 3450)

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.co

**Operator**

Company: Shakespear Oil Company, Inc. (KLN#62881)  
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**Geologist**

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Formation	E-Log	Sample
Anhydrite	2470(+ 511)	2471
B/Anhydrite	2491(+ 490)	2492
Topeka	3768(- 787)	3764
Heebner	3924(- 943)	3923
Lansing	3970(- 989)	3967
Muncie Creek	4116(-1135)	4114
Stark	4202(-1221)	4200
BKC	4276(-1295)	4271
Pawnee	4403(-1422)	4397
Fort Scott	4460(-1479)	4453
Cherokee Shale	4487(-1506)	4484
Johnson Zone	4532(-1551)	4527
Mississippi	4600(-1619)	4596
Total Depth	4685(-1704)	4680

Drilling Information

Drilling Contractor: Val Energy Inc., Rig #7

Casing: Surface: 8 5/8" @ 226'

Production: None

Electrical Surveys: Weatherford, DIL, CNL/CDL & MEL (No Sonic)

Bit Record: Bit 1: 12 1/4" JZ RT out(226') ftg(226') hrs(2 1/4), Bit 2: 7 7/8" JZ QX28 out(4680') ftg(4454') hrs(126 1/2)

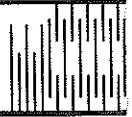
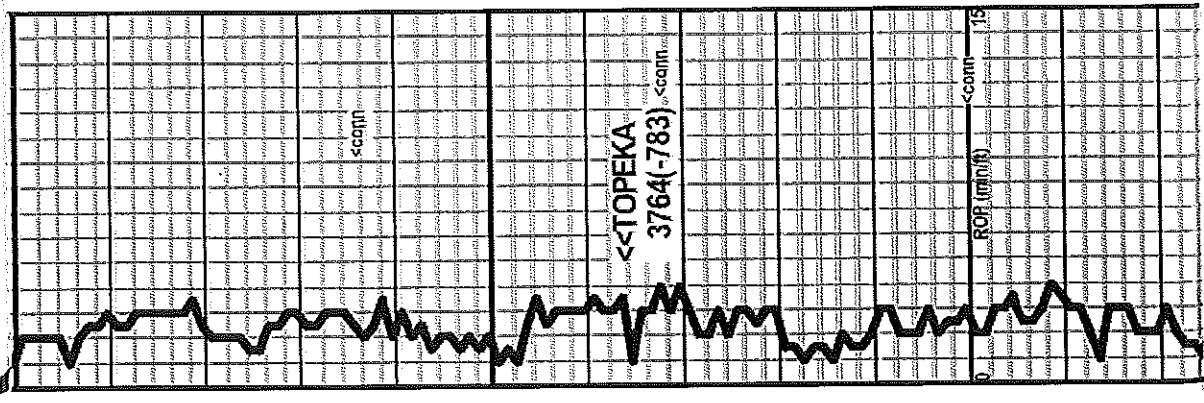
Daily Penetration:  
 9-12-2012 Spud  
 9-13 503  
 9-14 2091  
 9-15 2960  
 9-16 3590  
 9-17 3940  
 9-18 4068  
 9-19 4168  
 9-20 4256  
 9-21 4423  
 9-22 4550  
 9-23 4680(RTD)

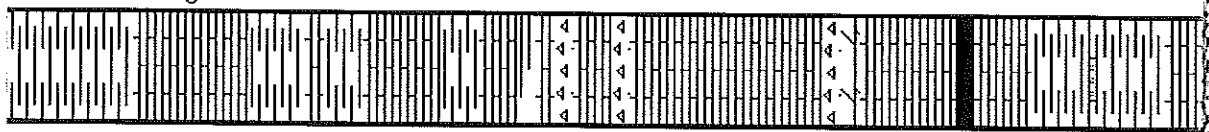
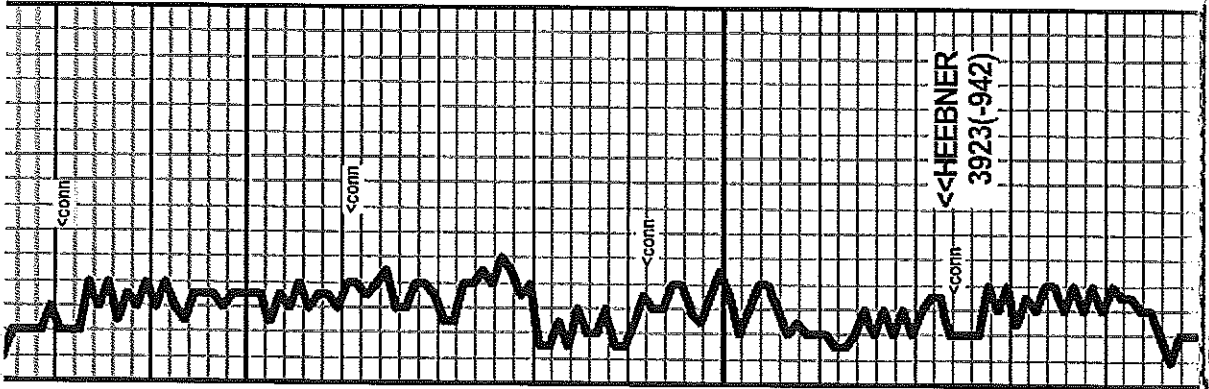
ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks								
<div style="text-align: center;"> </div>												
<div style="font-size: small;"> <table border="1"> <tr> <td>ROP (min/ft)</td> <td>15</td> </tr> <tr> <td>Vis 45 Wt 8.5 Fl 8.8</td> <td></td> </tr> <tr> <td>Chl 2,500 LCM 1#</td> <td></td> </tr> <tr> <td>9/16/12 @ 3580</td> <td></td> </tr> </table> </div>	ROP (min/ft)	15	Vis 45 Wt 8.5 Fl 8.8		Chl 2,500 LCM 1#		9/16/12 @ 3580					
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Chl 2,500 LCM 1#												
9/16/12 @ 3580												

3700

3750

3800





Most Shale, gray, black & green, some silty

LS, gray-tan, f-vxin, silty foss-ool, P mold por & P ixin por, SSFO, spt'd asph str, dull spt'd fluor, N odor

LS, tan-gray, vxin, NV por w/ inc Shale, gray & black

Shale gray, black & green + LS gray-tan, f-vxin, dense, NV por

LS, tan-gray, f-vxin, chky IP, silty foss, NV por + Cht gray-tan opq

LS, gray-brown, fxin, foss & ool, chky, arg, NV por + abnt Shale, gray, green & rust

LS, tan-gray, f-vxin, chky IP, dense, NV por + LS crm-off white, fxin, dolo, foss & ool, F-P ixin por, NS + few pc's Cht gray - tan opq

Shale, black carb

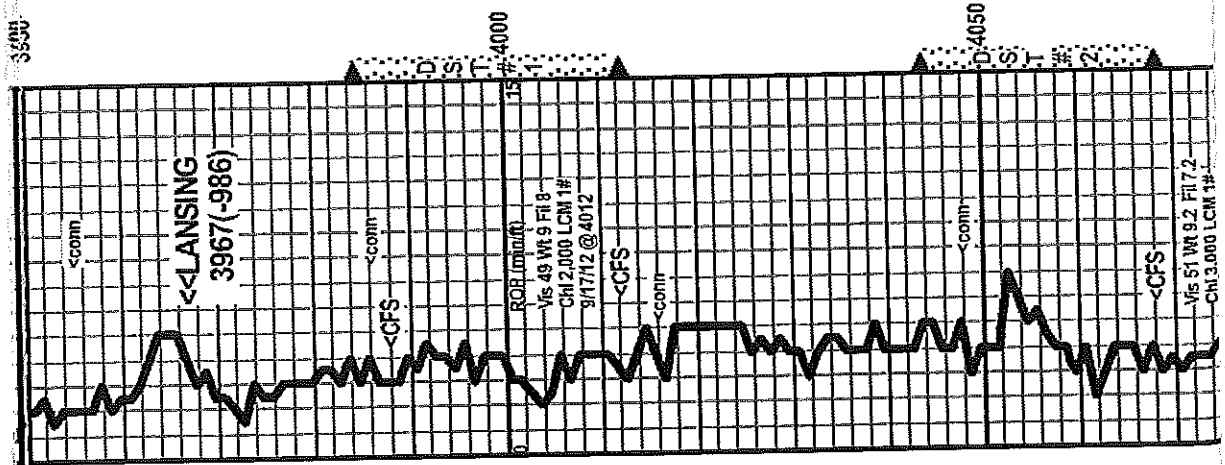
LS, f-vxin, silty foss, dense, NV por

Shale, gray, black, green & rust, silty

3850

3900

3950



LS, crm-white, fxln, ool, chky, few pc's F-P iool por, VSSFO, spt'd stn, fluor?, most LS, crm-white, f-vxln, chky, NV por, N- cup odor

Shale, gray, green & black

LS, gray-white, fxln, foss & ool, chky IP, F-P iool por, SSFO, spt'd stn, dull spt'd fluor, N odor

Shale, gray, green & black

LS, brown-gray, fmxln, sub chky, ool IP, F-P ixln por, S-FSFO, spt'd-unt stn, dull umf fluor, frt odor

Shale, black & green

LS, crm-white, f-vxln, chky, NV por

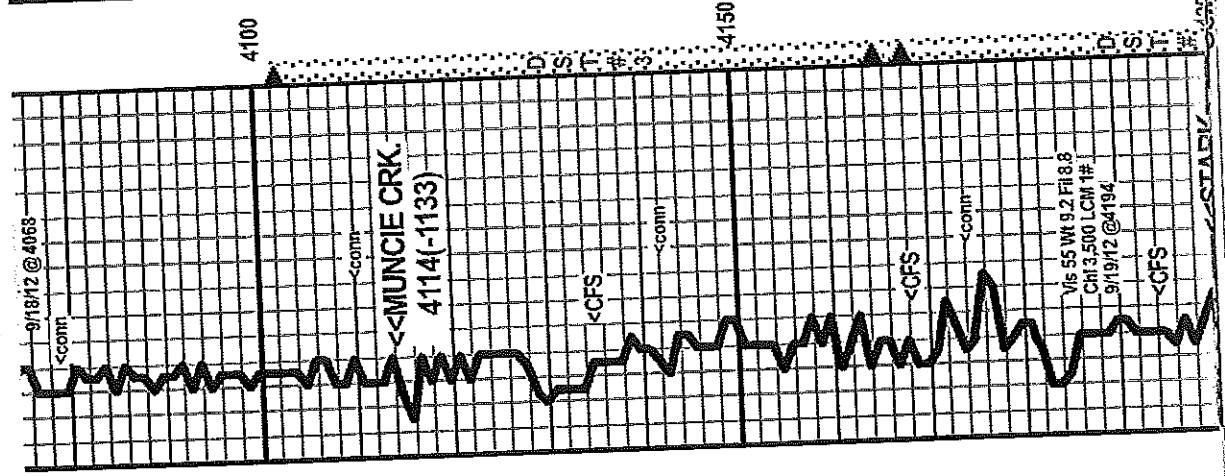
LS AA + LS, gray-tan, micro xln, silty foss, dense, NV por

Shale black, dk green & turq + LS, tan -gray, fxln, silty foss, P pp por, spt'd stn, NSFO, N odor

Most LS, tan-brown, vf-micro xln, few foss frag, NV por + LS, gray-tan, fxln, foss-ool, P mold por, S-FSFO (some bleeding), spt'd - unt stn, spt'd fluor, frt odor

**DST#1 3984 - 4012**  
(Lansing B)  
Note: Hit bridge around 2900' & slid 10' to TD  
30-45-30-60  
BLOW:  
IF 2 1/2" built to 4"  
FF surface blow  
RECOVERY:  
1,074' M  
IHP 1926  
IFP 490 - 526  
ISIP 1150  
FFP 530 - 532  
FSIP 1146  
FHP 1870 BHT 111 F

**DST#2 4044 - 4068**  
(Lansing D-F)  
15-30-30-60  
BLOW:  
IF surface blow died 2 min  
FF no blow  
RECOVERY:  
2' M w/oil spots  
IHP 1950  
IFP 20 - 17  
ISIP 24  
FFP 180-017  
FSIP 27  
FHP 1852 BHT 109 F



LS, crm-white, xin, cnky, NV por + LS tan-gray, vxin, dense w/ Shale, black, rust & green

LS, brown-gray, vxin, silty foss, dense, NV por

LS AA + LS, crm-white, xin, sub ool, chky IP, NV por

Shale, black, carb + LS, gray-brown, vf-micro xin, dense, NV por & Cht brown-gray, transl-opq

Shale gray-black, rust & green

LS, tan-gray, xin, ool & foss, chky IP, P xin por & P pp por, S-FSFO, sp'd stn & fluor, F odor

LS, crm-white, f-vxin, chky, silty foss, NV por + few pc's Cht, white, opq

LS, gray-dk brown, vf-micro xin, silty foss, dense, NV por + Shale black, brown & green

LS gray-tan, silty foss, P-vgy por, SSFO, few pc's w/unf lt stn, dull unf fluor, V fnt odor

Shale, green, gray-black & rust, some silty

LS, tan-crm, xin, foss & ool, few pc's P xin por & P vgy por, SSFO, rare sp'd asph stn, V fnt odor

LS, brown-crm, xin, chky IP, NV por

**DST#3 4102 - 4168**

(Lansing H & I)  
15-30-45-90

**BLOW:**

IF built to 1 1/4"  
FF built to 3/4"

**RECOVERY:**

70' M w/ oil spots

IHP 2006

IFP 22-27

ISIP 1212

FFP 33-50

FSIP 1207

FHP 1910

BHT 108 F

**DST#4 4165 - 4225**

(Lansing J & K)  
15-30-30-30

**BLOW:**

IF weak surface blow

FF no blow

**RECOVERY:**

1' GO

14' GOCM

(7%g 11%am 82%am)

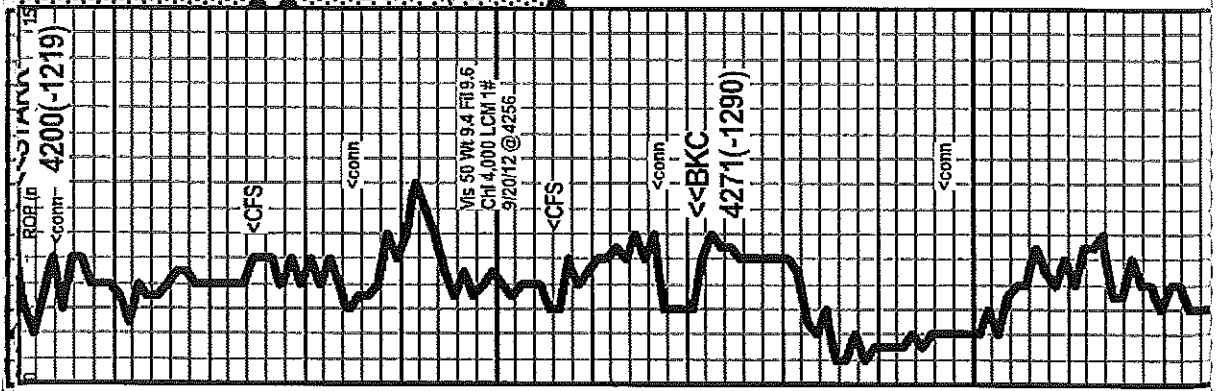
15' TOTAL FLUID

IHP 2057

IFP 22-22

ISIP 1024

FFP 24-26



Shale, black, carb + LS, dk brown-gray, vf-micro xln, dense

LS, gray-tan, f-mxln, silty foss & ool, P ixln por & P pp por, S-FSFO few pc's, rare spt'd-unf stn & dull fluor, F odor

LS, tan-gray, fvfxln, silty foss, dense, NV por

LS, brown-gray, vf-micro xln, dense, NV por + Shale black, carb

LS, gray-brown, vf-mxln (some crs), foss frag, P ixln por & P vgy por, F-GSFO, spt'd stn, spt'd-unf fluor, F odor

LS, gray-tan, vfxln, NV por, dense + Shale, gray, black, rust & green

LS, gray-brown, vfxln, silty foss, dense, NV por + Shale, black & gray

LS, tan-gray, vfxln, sub ool, dense, NV por

Wash red, Shale red-rust, silty + gray & green

LS, gray-white, vfxln, silty ool, NV por, spt'd asph stn, NSFO, frt odor + LS, brown-gray, micro xln, dense

Shale, gray, black, green & rust, silty

FSIP 950  
FHP 1976 BHT 110 F

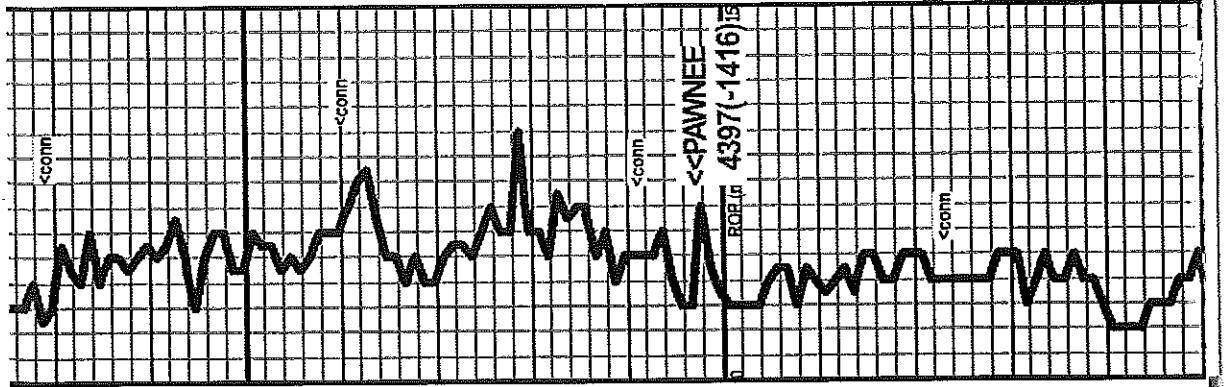
**DST#5 4228 - 4256**  
(Lansing L)  
15-30-15-

**BLOW:**  
IF weak surface blow  
FF no blow (tool plugged on FF)

**RECOVERY:**  
3' M w/oil spots  
IHP 2091  
IFP 22-19  
ISIP 67  
FFP 31-96  
FSIP 96  
FHP 2031 BHT 117 F

15-30-15-15  
D.S.T. # 5: 4250





LS, tan-gray, vfxln, silty foss, dense, NV por

LS, tan-gray, vfxln, NV por, rare sp'd edge str, NSFO, N odor + Shale, gray, black, rust & green

LS, white, fxln, some ool, chky, P iool por, NS, most dense

LS, gray-tan, fxln, foss-ool, gran tex, dense, NV por

Shale, black, carb + pyr

LS, brown-gray, vfxln, silty ool-foss, dense, P ixln por, rare sp'd edge str, NSFO, ? fnt odor + Cht, gray-tan opa

LS, tan-gray, vfxln, sub ool, NV por, dense + Cht, gray-tan

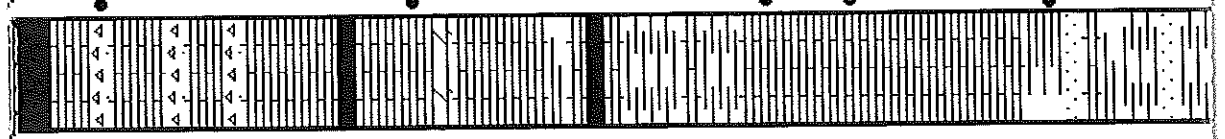
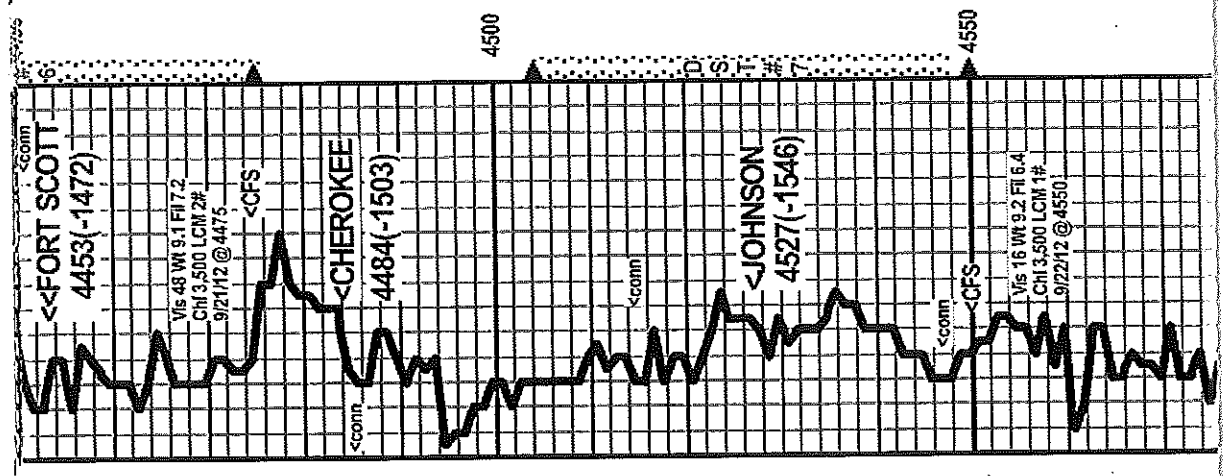
Shale, black, carb + Cht black-gray & LS, gray-brown, f-vfxln, silty foss, dense, NV por

LS, v-fxln, silty foss & ool, chky IP, few pc's P pp por, SSFO, rare sp'd str, fnt odor

**DST#6 4422 - 4475**  
(Myrick Station & Fort Scott)  
15-30-30-30

**BLOW:**  
IF weak surface blow  
FF no blow  
(plugging on both IF & FF)

**RECOVERY:**  
12' M w/oil spots  
IHP 2123  
IFP 22-21



Shale, black, carb

LS, brown-gray, fxltn, ool, chky IP, P tool por & P pp por, S-FSFO, spt'd dk stm, spt'd fluor, fnt odor + Cit gray & brown

LS, tan-gray, vfxln, dense, sub ool, NV por + Cit gray - amber, opa-transl.

Shale, black, carb

LS, gray-brown, fxltn, ool, P tool por, SSFO, spt'd-unt stm, dull fluor + few pc's Dolo, tan-gray, fxltn, P ixln por, SSFO, unf lt stm & fluor, fnt cup odor + Abnt shale, vari colo.

AA + LS, brown-gray, vfxln, silty foss, NV por, dense + Shale, black, green, maroon & gray

Abnt Shale, black, gray & green + LS, brown, vfxln, dense NV por

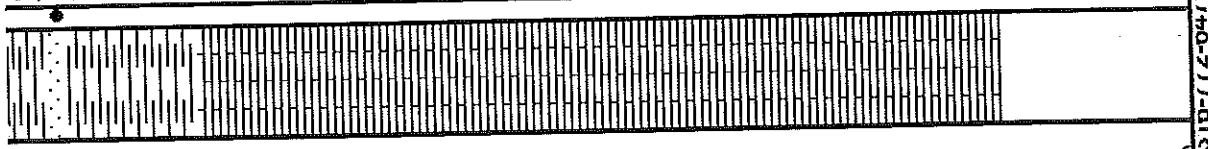
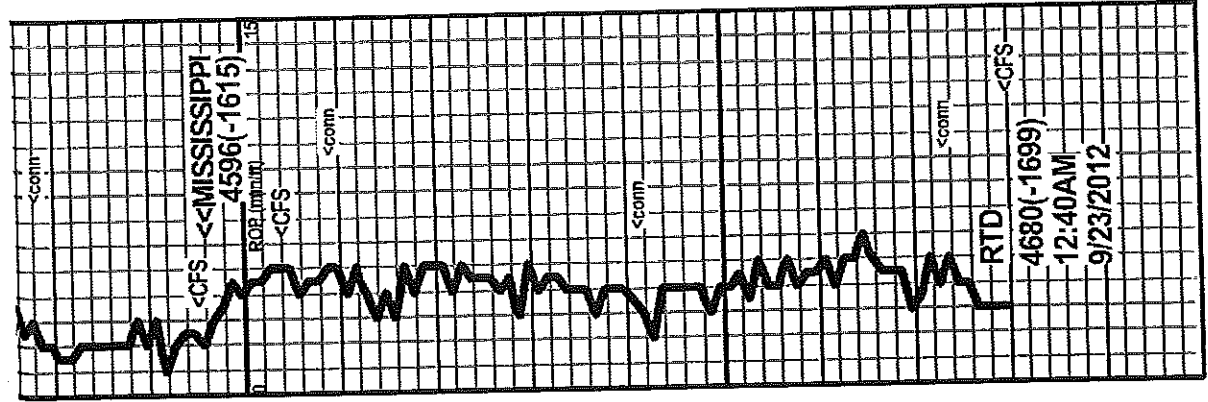
LS, brown-gray, f-vfxln, P ixln por & P vgy por, S-FSFO, spt'd-unt stm, dull spt'd fluor, G odor

Most LS, crm-tan, fxltn, chky IP, NV por & LS, gray-brown, vfxln, dense+ LS w/show AA (fnt cup odor, cfs 45")

LS, tan-gray, f-vfxln, chky-dense, NV por + Shale gray, black, green & rust w/few clus SS, tan-gray, vfgm, well sort, rd, comp, P ig por, S-FSFO, spt'd-unt lt stm & barren, dull fluor, fnt odor

ISIP 1113  
FFP 32-27  
FSIP 1022  
FHP 2084 BHT 114 F

DST# 7 4504-4550  
(Johnson Zone)  
15-30-45-90  
BLOW:  
IF weak surface blow  
FF weak surface blow  
RECOVERY:  
1' M w/oil scum  
IHP 2170  
IFP 20-19  
ISIP 398  
FFP 21-19  
FSIP 307  
FHP 2028 BHT 112 F



cfs 4596, Most Shale, gray, green, black & rust w/few clus SS, gray-clr qtz, f-vfrgm, mod sort, sub rd, silty glauc, fri-comp, F ig por, S-FSFO, sp'd stn, dull unfl fluor, fnt odor

LS, white-tan, fxln, silty sdy, chky IP, NV por

LS, white-crm, fxln, chky, silty sdy & ool, NV por

LS, gray-crm, fxln, chky IP, ool, NV por

LS, gray-crm, vixln, NV por + LS AA

LS, brown-crm, vf-microxin, dense, NV por

LS AA w/fnc LS, tan-brown, sdy & ool, chky IP NV por

LS, white-crm, fxln, sdy & ool, chky, NV por

Survey @ 4680 2