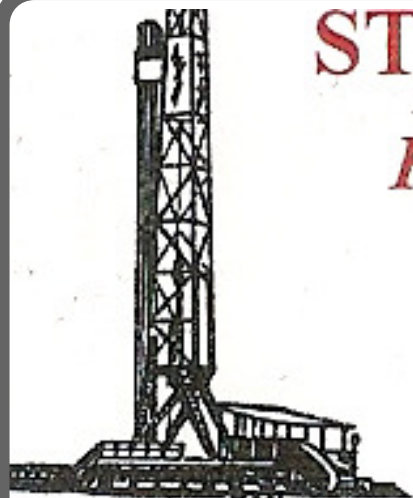


# STEVEN P. MURPHY, P.G.

*Petroleum Geologist (KS #228)*



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RR#1, Box 69

Otis, Kansas 67565

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

Well Name: Foster #1

Location: Logan County

License Number: API #15-109-21125-00-00

Spud Date: 9/29/12

Region: Kansas

Drilling Completed: 10/4/12

Surface Coordinates: 2310' FNL & 774' FWL (Approx. W/2 SE SW NW)  
Section 36-T13S-32W

Bottom Hole Coordinates: Same as above (Vertical well w/minimal deviation)

Ground Elevation (ft): 2887'

K.B. Elevation (ft): 2892'

Logged Interval (ft): 3600'

To: TD

Total Depth (ft): 4610'

Formation: Topeka thru Mississippian

Type of Drilling Fluid: Chemical - Mudco (Reid Atkins, Mud Engineer)

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: Rodger D. Wells dba Pioneer Resources

Address: 80 Windmill Drive  
Phillipsburg, KS 67661

## GEOLOGIST

Name: Steven P. Murphy, PG (KS License #228)

Company: Consulting Petroleum Geologist

Address: 3365 CR 390  
Otis, KS 67565

## LogTops (Datum)

An open-hole log was not run. Please refer to the sample tops found in the strip log section.

## DSTs

No DSTs were run due to a lack of oil shows.

## COMMENTS

Based on the low structural position relative to nearby wells, and the lack of oil shows, it was recommended that this well be plugged at a RTD of 4610'.


Respectfully submitted,

Steven P. Murphy, PG  
 Consulting Petroleum Geologist  
 KS License #228

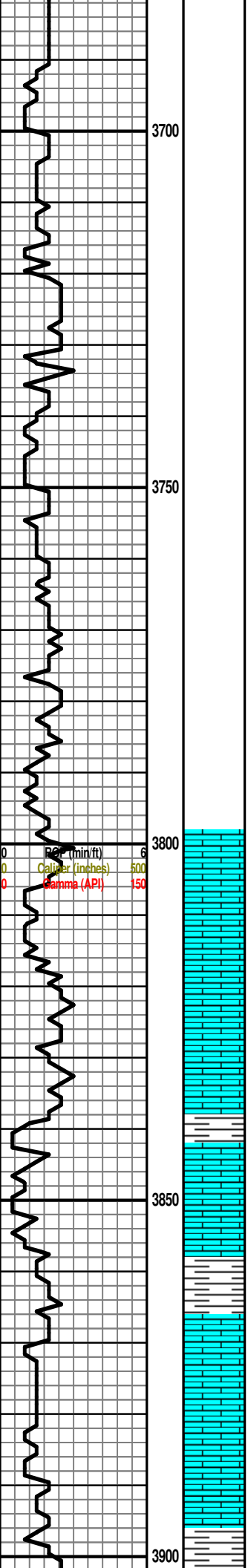
## ROCK TYPES

 Anhy  Bent  Brec  Cht  Clyst	 Coal  Congl  Dol  Gyp  Igne	 Lmst  Meta  Mrlst  Salt  Shale	 Shcol  Shgy  Slst  Ss  Till
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## OTHER SYMBOLS

<b>OIL SHOW</b>  Even  Spotted  Ques	 Dead  Gas	<b>INTERVAL</b>  Core  Dst	<b>EVENT</b>  Conn  Rft  Sidewall
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	Depth	Lithology	Oil Shows	Geological Descriptions	REMARKS
<b>Curve Track 1</b> ROP (min/ft) ——— Caliper (inches) - - - Gamma (API) ———	0 500 1000 1500 2000 2500 3000 3500 3650 4000 4500 5000				<p>The following formation tops are picked from ROP &amp;/or sample examination. No logs were run.</p> <p>Top Anhydrite - 2392 (+500)                      Base Anhydrite - 2410 (+482)</p> <p style="text-align: center;">NOTES:</p> <p>WW Drilling Rig #2 MIRU on 9/29/12</p> <p>8-5/8" Casing set @ 219' w/160 sx</p> <p>Survey @ 219' - degree</p>



**Begin Sample Examination @ 3800'**

**LS: crm-tan-gry, fxlIn, oolitic, fr-gd inter-ool por, chalky, NS**

**LS: crm-tan, vfxln, sl foss, minor chert, chalky, dense w/NVP, NS**

**SH: blk, carb**

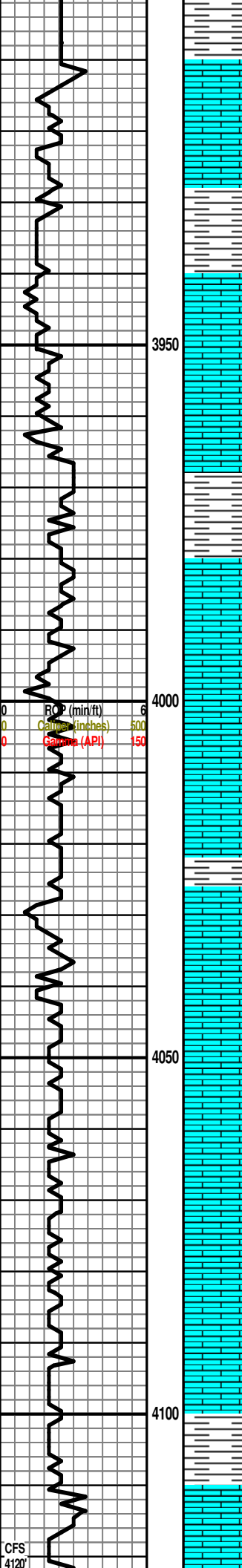
**LS: crm-gry, fxlIn, foss, oolitic, gd inxln & vug por, chalky, NS**

**SH: gry-grn-rust**

**LS: crm-gry, f-vfxln, mostly dense, oolic, foss, pr inxln por, cherty, sl chalky, NS**

**LS: as above**

**SH: blk, carb**



SH: gry-grn-red

LS: crm-tan, f-vfxln, oolitic in pt, foss in pt, dense, NVP, chalky, NS

SH: gry-grn

LANSING 3939 (-1047)

LS: wht-tan-gry, f-vfxln, dense, sl foss, sl oolitic, dense w/NVP, abund chalk, NS

LS: as above

SH: gry-blk-grn

SH: gry-grn-red

LS: wht-gry, vfxln, dense w/NVP, minor chert, chalky, NS

SH: blk-gry-mar

LS: crm-gry, vfxln, dense w/NVP, chalky, NS

LS: as above

SH: gry-rust-red-grn

LS: crm-tan, vfxln, dense w/NVP, chalky, NS

LS: as above

LS: as above

LS: crm-tan-gry, vfxln, dense w/NVP, chalky, minor chert, NS

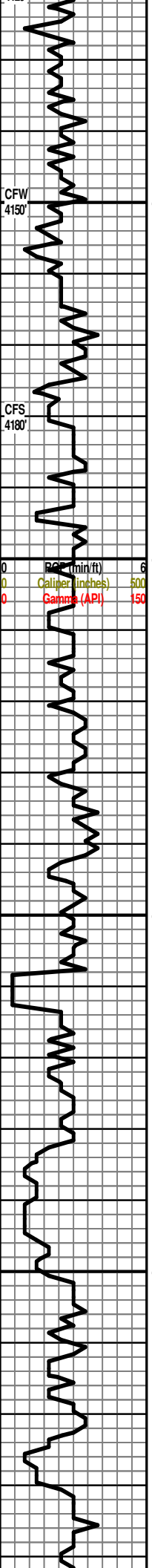
LS: as above, NS

○ LS: crm-tan, fxl, sl oolic, pr-fr inxln por, nsfo, quest stn, sl odor

MUNCIE CRK 4102 (-1210)

SH: blk, carb

LS: tan-brn, vfxln, dense w/NVP, sl chalky, NS



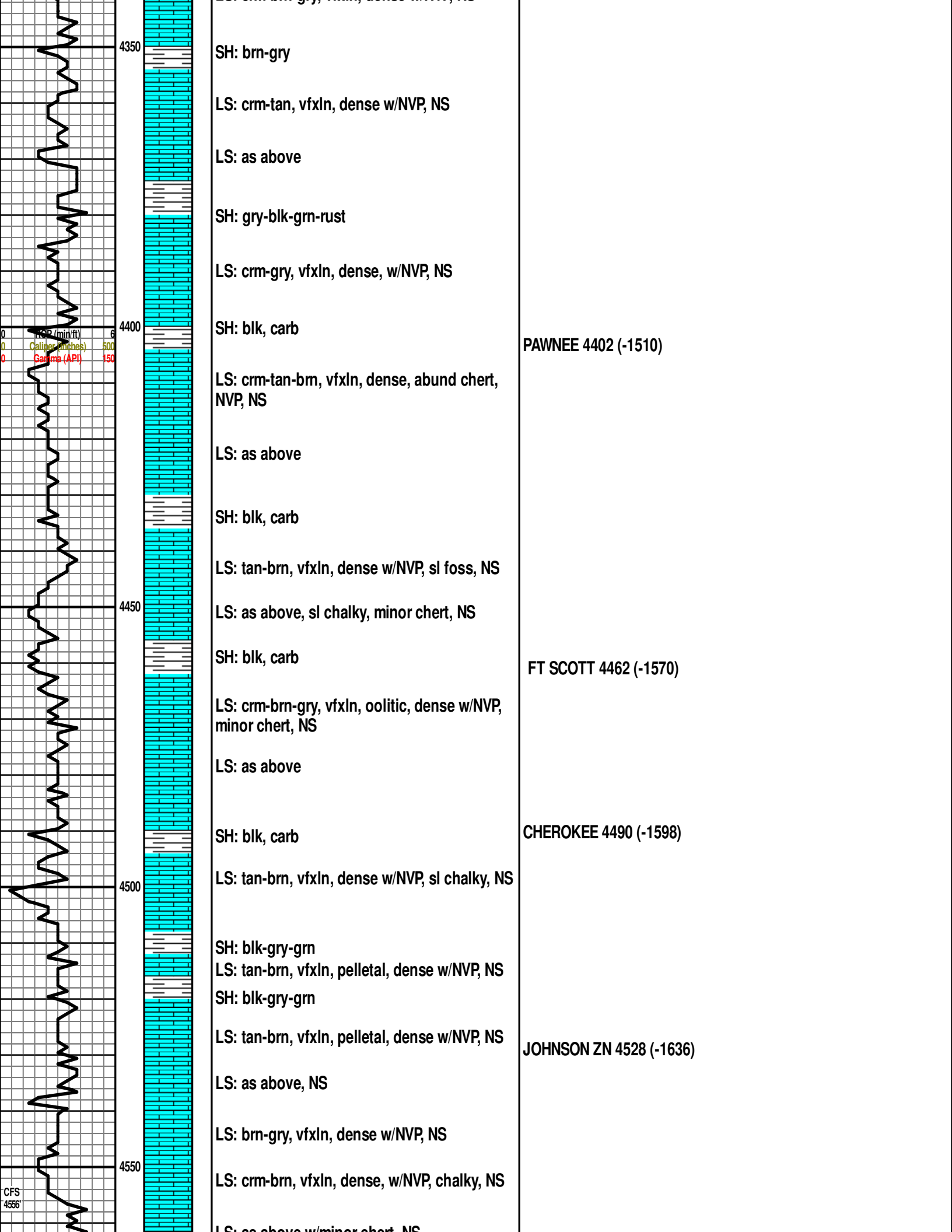
SH: blk-gry-red-rust  
 LS: crm-tan-gry, vfxln, foss, mottled in pt, dense w/NVP, sl chalky, NS  
 SH: blk-gry-grn-red  
 LS: wht-brn-gry, vfxln, dense w/NVP, sl chalky, NS  
 LS: crm-brn-gry, vfxln, dense w/NVP, minor chert, sl chalky, NS  
 SH: blk-gry-red  
 LS: crm-tan-gry, vfxln, dense w/NVP, sl foss, chalky, NS  
 SH: blk, carb  
 LS: crm-tan-gry, vfxln, dense w/NVP, sl foss, sl oolitic, chalky, NS  
 LS: as above  
 SH: blk, carb  
 SH: gry-grn-red  
 LS: crm-brn, vfxln, foss, lith to bioclastic, dense w/NVP, chalky, NS  
 SH: gry-blk-grb-brn  
 SH: gry-blk-brn  
 SST: tan-gry, vfg-fg, prly std, sub-ang, friable, shaley, mixed chert, fr-gd interpart por, NS  
 LS: crm-brn-gry, vfxln, dense w/NVP, NS  
 LS: as above  
 SH: red-brn-gry  
 LS: crm-brn-gry, vfxln, dense w/NVP, NS

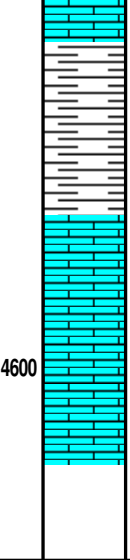
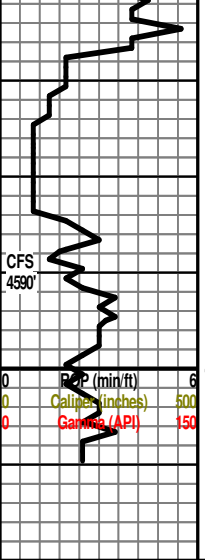
STARK 4193 (-1301)

HUSHPUCKNEY 4230 (-1338)

BKC 4271 (-1379)

MARMATON 4295 (-1406)





LS: as above w/minor chert, NS  
 SH: grn-gry-blk-yel  
 SH: as above  
 LS: crm-brn, vfxln, dense, NVP, NS  
 LS: as above  
 RTD - 4610'

MORROW SH 4567 (-1675)

MISSISSIPPIAN 4586 (-1694)