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

Well Name: Lawson D #1
Location: Norton County
License Number: API #15-137-20679-00-00
Spud Date: 12/2/13
Surface Coordinates: Section 36 - Township 3 South - Range 24 West
1,815' FSL & 1,815' FEL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 2,414' K.B. Elevation (ft): 2,419'
Logged Interval (ft): 3,250 To: RTD Total Depth (ft): 3,820'
Formation: Topeka-Granite
Type of Drilling Fluid: Chemcial (Mud Co.)

Region: Kansas
Drilling Completed: 12/6/13

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

OPERATOR


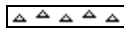
Company: John. O Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665-0352

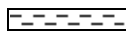



Comments





The Lawson D#1 well was drilled by WW Drilling Rig #6 (Tool Pusher: Mark Bigge).

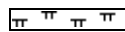

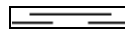
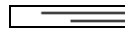
The location for the Lawson D #1 well was located via 3D seismic survey. Geologic samples were collected and examined from 3,250-3,820'. After all sample and electric log data was gathered and evaluated, the decision was made to run 5 1/2" production casing on 12/7/13 to further evaluate the Lawson D #1 well.

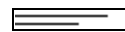



ROCK TYPES

-  Anhy
-  Bent
-  Brec
-  Cht








-  Clyst
-  Coal
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta

-  Mrlst
-  Salt
-  Shale
-  Shcol





-  Shgy
-  Sltst
-  Ss
-  Till

OTHER SYMBOLS

- POROSITY**
-  Earthy
 -  Fenest
 -  Fracture
 -  Inter
 -  Moldic
 -  Organic
 -  Pinpoint

Vuggy

- SORTING**
-  Well
 -  Moderate
 -  Poor

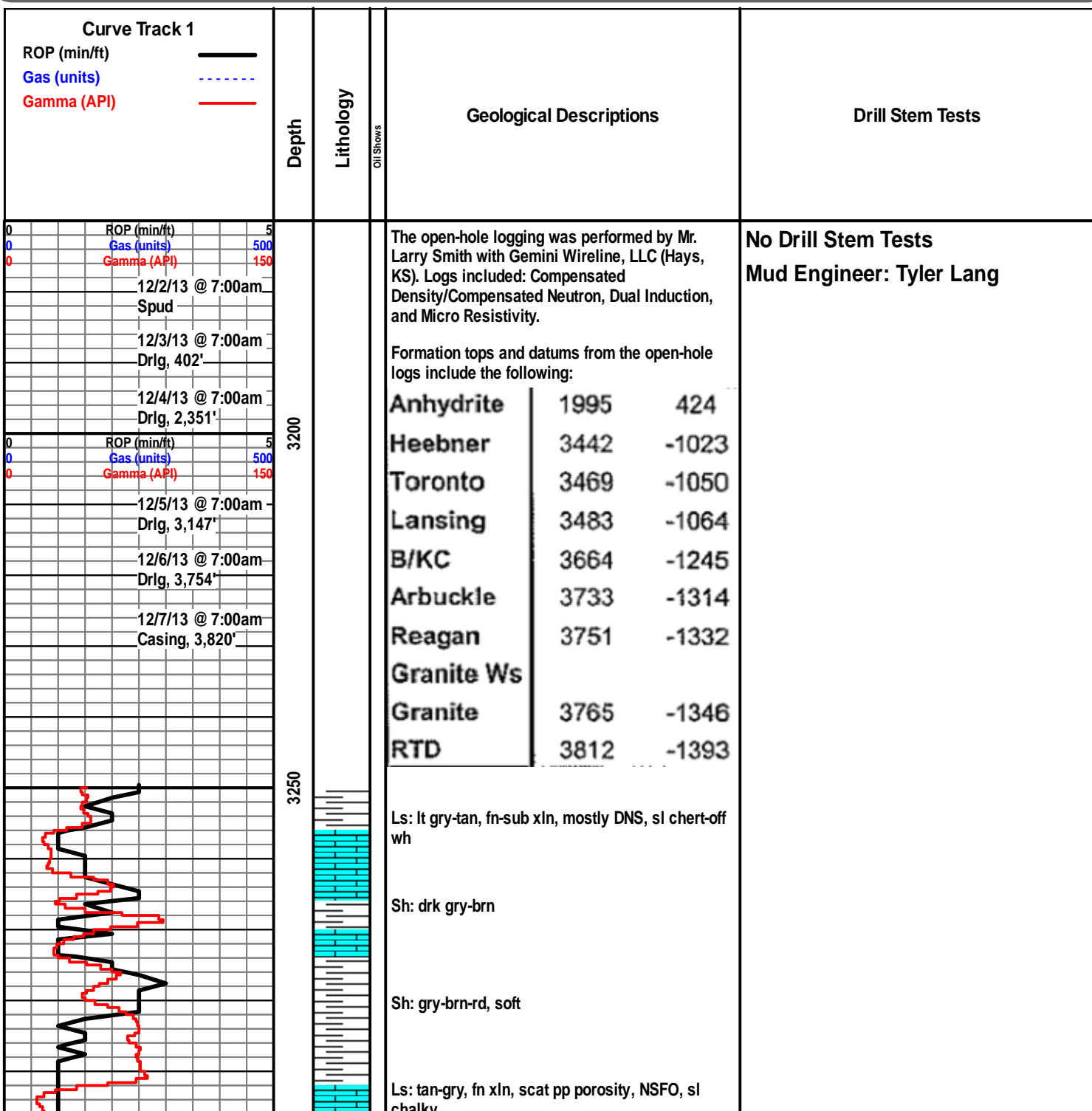
- ROUNDING**
-  Rounded
 -  Subrnd
 -  Subang
 -  Angular

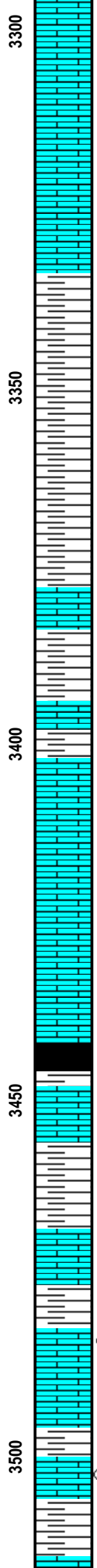
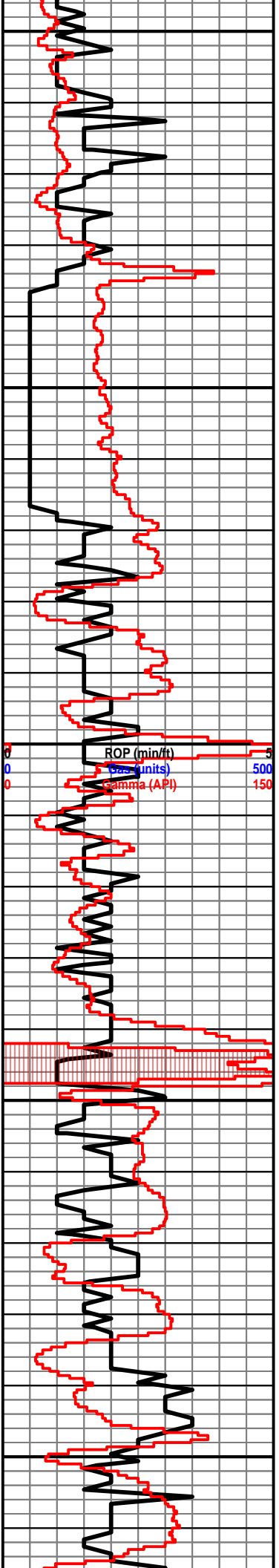
- OIL SHOW**
-  Even

-  Spotted
-  Ques
-  Dead

- EVENT**
-  Rft
 -  Sidewall

- INTERVAL**
-  Core
 -  Dst





Chalky

Ls: ala

Ls: tan-lt gry, fn-sub xln, mostly DNS

Ls: ala

Sh: drk gry-brn

Sh: gry-brn-rd

Sh: ala

Ls: off wh-lt gry, fn-sub xln, mostly DNS, chert-off wh

Sh: gry

Sh: drk gry-blk

Ls: off wh-tan-lt gry, ool, mostly DNS, scat ool porosity, sl fossil

Ls: tan-lt gry, fn-sub xln, mostly DNS, sl fossil, sl chalky

Ls: ala

Heebner 3443' (-1024)

Sh: blk, carb, fissile

Ls: off wh-lt gry, fn-sub xln, DNS, sl chalky

Sh: drk gry-brn-rd, vry soft

Sh: ala

Toronto 3470' (-1051)

Ls: off wh-tan-lt gry, fn xln, scat pp porosity, mostly barren, NSFO, no odor, sl chalky

Lansing 3483' (-1064)

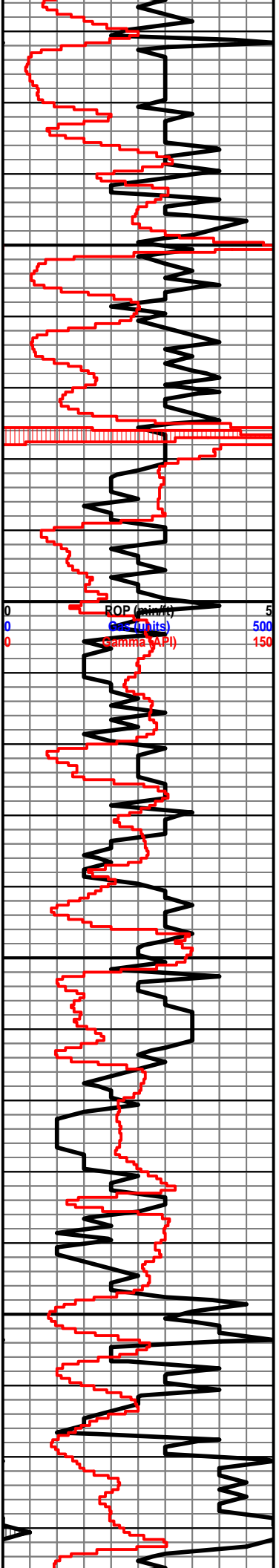
Ls: off wh, fn xln, poor pp porosity, sl oil sat, FSFO, sl odor

Ls: off wh-tan, fn xln, vry poor pp & int xln porosity, sl oil st, SSFO, sl odor

Sh: drk gry

Ls: off wh-tan, fn xln, ool, poor-fair ool porosity, sl oil st, SSFO, sl odor, chert-off wh

Sh: drk gry



3550

3600

3650

3700

Ls: off wh-tan, fn xln, mostly DNS, NSFO, sl chert, sl chalky

Ls: ala

Sh: lt-drk gry

Sh: drk gry-brn-rd

Ls: off wh-tan, fn xln, poor pp vuggy porosity, sl oil sat, SSFO, sl odor, chert-off wh

Ls: off wh-lt gry, fn-sub xln, mostly DNS, chalky, chert-off wh

Sh: drk gry-blk, scat brn

Sh: drk gry-brn

Ls: tan-lt gry, fn-sub xln, mostly DNS, sl chert-off wh

Sh: lt-drk gry

Sh: ala

Ls: tan-lt gry, fn xln, scat pp porosity, mostly barren, sl chalky

Sh: gry

Sh: lt-drk gry-brn, soft

Ls: off wh-tan-lt gry, fn xln, mostly DNS, mostly barren, sl chert-off wh

Sh: lt-drk gry

Ls: lt gry, fn xln, mostly DNS, chalky

B/KC 3664' (-1245)

Sh: drk gry-brn-rd, vry soft

Sh: ala

Ls: off wh-tan, fn-sub xln, DNS, sl chalky

Ls: ala

Sh: drk gry-brn-rd, vry soft

Sh: ala

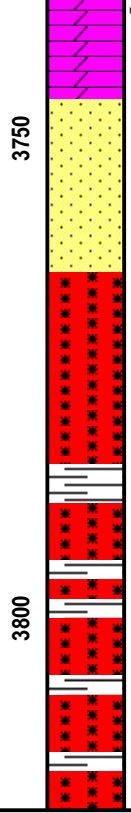
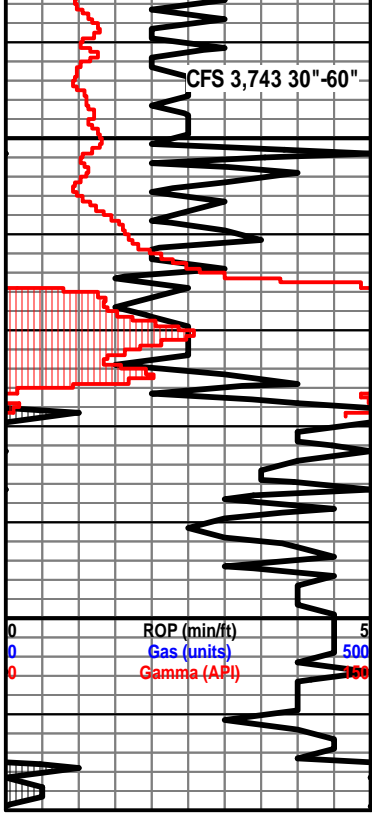
Ls: tan-lt gry, fn-sub xln, mostly DNS, chalky, sl chert-off wh

Ls: ala

Ls: tan-lt gry, fn-sub xln, mostly DNS, sl chalky, scat sh: drk gry

Arbuckle 3734' (-1315)

Dolo: off wh-brn, fn-md xln, poor-fair sucrosic xln



porosity, fair oil st, SFO, fair-good odor, dull-fair
yel fluor
Dolo: off wh-brn, fn-md xln, fair int xln porosity, sl
oil st, SSFO, sl-fair odor

Reagan 3745' (-1326)
Ss: qtz, fn grn, mostly rounded, fairly well sorted,
poor int grn porosity, vry lt oil st, VSSFO, sl odor

Granite 3772' (-1353)
Qtz: off wh-pink, fn-md grn, sub rounded, well
cemented, vry DNS

Qtz: ala

Qtz: off wh-pink, vry DNS, scat sh: drk gry-brn,
grn

Qtz, Sh: ala

Qtz: off wh-pink, vry DNS

Sh: drk gry-brn-grn, soft

Wt: 9.5
Vis: 44