

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Murfin Drilling Company, Inc. McNeil Trust #1-11
Location: Approx SE NW NE SE Section 11-T18S-R36W
License Number: API #15-203-20240
Spud Date: Oct. 21, 2013
Surface Coordinates: 2070' FSL & 930' FEL Section 11-T18S-R36W

D&A

Region: Wichita Co., KS
Drilling Completed: Nov. 2, 2013

Bottom Hole
Coordinates:
Ground Elevation (ft): 3240 K.B. Elevation (ft): 3251
Logged Interval (ft): 3600 To: 5070 Total Depth (ft): 5070
Formation: Mississippian RTD 5070 (-1819), LTD 5074 (-1823).
Type of Drilling Fluid: Chemical Displace @ 3330'.
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Murfin Drilling Company, Inc.
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GEOLOGIST

Name: Mikeal K. Maune
Company: Consulting Petroleum Geologist - Kansas Licensed No. 210
Address: Wichita, Kansas 67213
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COMMENTS

Surface Casing: Spud @ 4:00 pm on 10/21/2013. Set 8 5/8" surf casing @ 222'. Allied cmt w/200sx's of comm 3%cc. PD @ 8:30 pm 10/21/2013.

Production Casing: D&A November 3, 2013

Deviation Surveys: 3/4 @ 223', 1/2 @ 730', 1/2 @ 1513', 1/2 @ 2266', 1/2 @ 3018', 1 @ 3600', 1 @ 3706', 1 @ 3801', 1 3/4 @ 3910', 3 @ 4005', 2 @ 4052', 2 1/2 @ 4100', 2 3/4 @ 4160', 3 @ 4208', 3 1/2 @ 4260', 4 @ 4320', 4 @ 4380', 1/2 @ 4440', 5 @ 4490', 4 @ 4553', 4 3/4 @ 4605', 5 @ 4655', 4 @ 4709', 4 1/2 @ 4772', 5 @ 4791', 4 1/4 @ 4866', 4 1/2 @ 4960', 3 1/2 @ 5070 RTD.

Pipe Strap: Bit Trip @ 3600'. Strap 3040.22. Board @ 3040.07. Strap .15 ft long to Board.

Rig: Murfin Drilling Co., Inc Rig #22

Bit Record:

Bit #1 12 1/4" HTCO GT-C1 in @ GL, out @ 223'.

Bit #2 7 7/8" PDC HTC DP506F in @ 223', out @ 3600'.

Bit #3 7 7/8" HTC GX22S in @ 3600', out @ 4791'.

Bit #4 7 7/8" PDC HTCDP506F ub @ 4791', out @ 5070 RTD.

Gas Detector: None

Mud System: Morgan Mud Inc.

DSTs: None

OH Logs: Pioneer Wireline Services, LLC

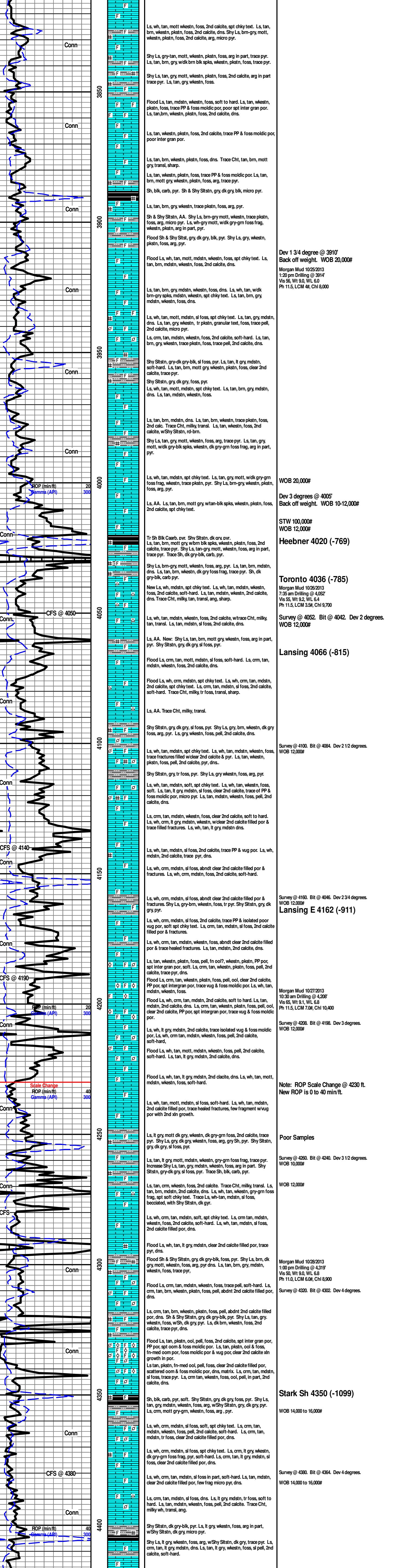
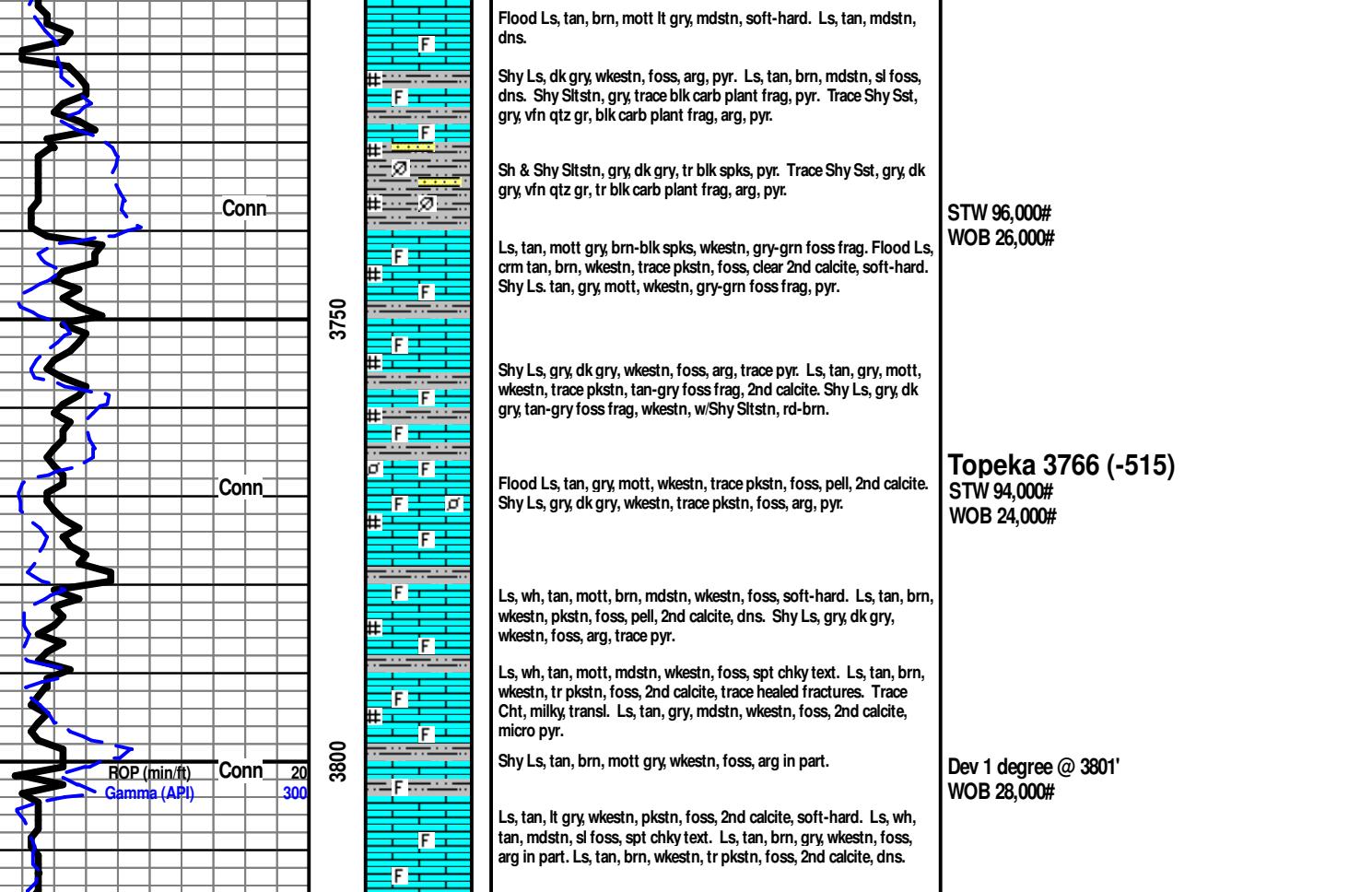
DIL, CNL/CDL, MEL/BHCS.

Note: OH Log depths appear to be 2 feet deep to Rotary depths at the top of the Heebner and 4 feet deep to Rotary depths from the BKC to RTD. The Gamma Ray curve on this report has been shifted uphole according to correlate with the Drilling time curve.

OH Log Formation Tops:

Base Anhydrite 2466 (+785), Topeka 3770 (-519), Heebner 4023 (-772), Lansing 4068 (-817), Stark Sh 4354 (-1103), BKC 4458 (-1207), Marmon 4520 (-1409), Pawnee 4610 (-1509), Ft Scott 4658 (-1407), Cherokee 4679 (-1428), Morrow 4841 (-1590), Miss 4954 (-1703), Miss 5074 (-1923).

DSTs



Geologist on Location
@ 10:00 pm 10/24/2013.

Depth 3600'.

Bit Trip @ 3600'. Dev. 1 degree @ 3600'.

Bit torquing, WOB 18,000#

Increase WOB to 20,000#

Increase WOB to 25,000#

Increase WOB to 28,000#

Dev. 1 degree @ 3706'.

WOB 30,000#

Start 10 ft Wet & Dry Samples

Survey @ 4020. Bit @ 4040. Dev 2 1/2 degrees.

WOB 24,000#

Topeka 3766 (-515)

WOB 24,000#

WOB 26,000#

Dev 1 degree @ 3801'.

WOB 28,000#

Survey @ 4040. Bit @ 4060. Dev 2 degrees.

WOB 20,000#

Start 10 ft Wet & Dry Samples

Survey @ 4060. Bit @ 4080. Dev 2 1/2 degrees.

WOB 22,000#

Poor Samples

Survey @ 4080. Bit @ 4100. Dev 3 1/2 degrees.

WOB 10,000#

Survey @ 4100. Bit @ 4120. Dev 3 degrees.

WOB 12,000#

Note: ROP Scale Change @ 4230'.

New ROP is 0 to 40 min.

Morgan Mud 10/24/2013

10:35 am Drilling @ 4020'

Vis 5, W 5, S 1, WL 5, Z 5

Ph 11.5, LCM 3.5#, Ch 10/400

Survey @ 4040. Bit @ 4060. Dev 2 1/2 degrees.

WOB 12,000#

Lansing E 4162 (-911)

Survey @ 4160. Bit @ 4040. Dev 2 1/2 degrees.

WOB 10,000#

Survey @ 4180. Bit @ 4100. Dev 3 degrees.

WOB 12,000#

Survey @ 4180. Bit @ 4120. Dev 3 degrees.

WOB 14,000# to 16,000#

Survey @ 4160. Bit @ 4140. Dev 3 1/2 degrees.

WOB 16,000#

Survey @ 4180. Bit @ 4200. Dev 3 degrees.

WOB 18,000#

Survey @ 4200. Bit @ 4220. Dev 3 degrees.

WOB 20,000#

Survey @ 4220. Bit @ 4240. Dev 3 degrees.

