

LITHOLOGY STRIP LOG

WellSight Systems

Scale 1:240 (5' = 100') Imperial

Measured Depth Log

D&A

Region: Rush Co., Kansas

Drilling Completed: March 18, 2014

Well Name: Murfin Drilling Company, Inc Janke #1-15

Well Id: 1320 FNL & 2310 FEL Section 15-T16S-R20W

License Number: API-15-165-22061

Spud Date: March 12, 2014

Surface Coordinates: W2 W2 NE Section 15-T16S-R20W

Bottom Hole Coordinates:

Ground Elevation (ft): 2178 K.B. Elevation (ft): 2183

Logged Interval (ft): 3130 To: 4040 Total Depth (ft): 4040

Formation: RTD 4040 (-1587'), LTD 4041 (-1588')

Type of Drilling Fluid: Chemical. Displaced at 2982'.

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Murfin Drilling Company, Inc
Address: 250 N. Water, Ste 300
Wichita, Kansas 67202

GEOLOGIST

Name: Michael K. Maune
Company: Consulting Petroleum Geologist - Kansas Licensed No. 210
Address: Wichita, Kansas
Office: 316-722-8173

COMMENTS

Surface Casing: Spud @ 12:45 pm 3/12/2014. Production Casing: None. D&A.

12/2014, cmt circ. Production Casing: None. D&A.

Depth Surveys: 1/4 @ 220 ft, 3/4 @ 3600, 3/4 @ 3955', 3/4 @ 4040 ft RTD.

No Pipe Strap.

Murfin Drilling Rig #16 Bit Record:

#1 12 1/4" CH1GMS in @ GL, out @ 220'.

#2 7 7/8" HTCO 6X20C in @ 220', out @ 3600'.

#3 7 7/8" HTCO 6X20C in @ 3600', out @ 4040'.

Gas Detector: None

Mud System: Kansas Drilling Technologies

DSTs: Trilobite Testing Inc.

OH Logs: Pioneer Energy Services DIL, CNL/CDL, MEL/BHCS.

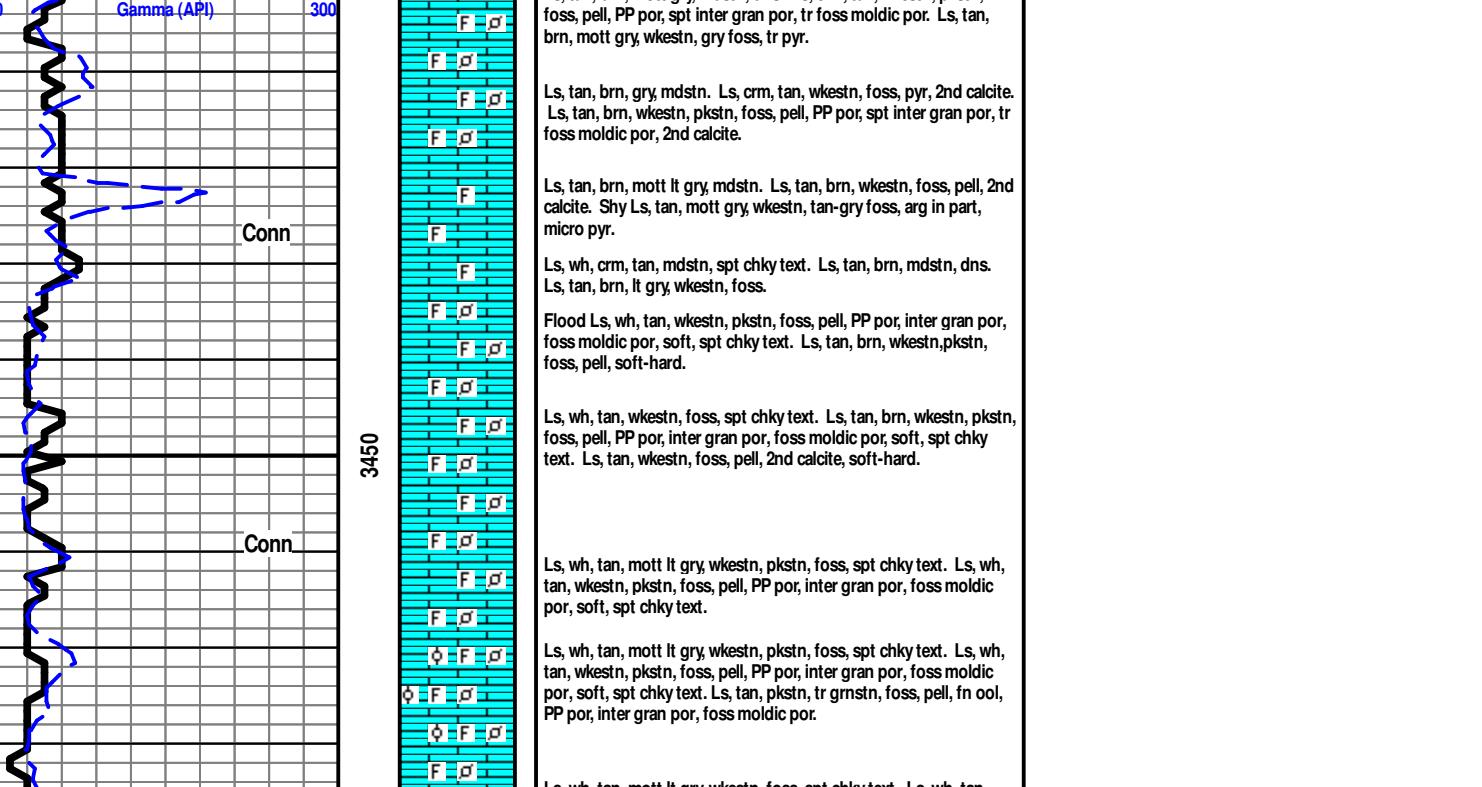
Note: Correlation of the OH Log with the drilling time indicates the depths are approximately equal from the Topeka to RTD. The Gamma Ray curve was imported directly into this log without any depth adjustment. The Rotary drilling time has been correlated with the OH Log and the formation tops on this report adjusted accordingly.

OH Log Formation Tops: Anhydrite 1420 (+723), Topeka 3222 (-1353), Lansing 3558 (-1375), 'B' 3582 (-1399), KBC 3818 (-1535), Pawnee 3870 (-1687), Lower Pawnee 3882 (-1699), Sst 3934 (-1751), Arbuckle 3955 (-1772), LTD 4041 (-1588').

DSTs

DST #1 (Lansing B) 3574-3600/30-60-60-90. 1st Op: Built to 3 1/2 inches in 30 min. 2nd Op: Built to 4 inches. Recovery Total 82' Fluid. 2' Free Oil. 80' MW (70% Wtr, 30% Mud). IH 1785#, IFP 25-42#, ISIP 416#, FFP 43-59#, FSIP 382#, FH 1922#, BHT 105 F.

DST #2 (Sst & Arb) 3922-3955/15-60-15-60. 1st Op: BOB 1 min. 2nd Op: BOB 2 min. Recovery Total 1185' Fluid. 10' Free Oil. 1175' MW (80% Wtr, 20% Mud). IH 1868#, IFP 157-361#, ISIP 1040#, FFP 409-555#, FSIP 1034#, FH 1922#, BHT 119 F.



ACCESSORIES

STRINGER

Anhy

Arg

Bent

Coal

Gyp

Mrlst

Salt

Shale

Sltst

Ss

Black sh

Gry sh

Sylst

Shale

Sylst</