

40-23S-23E
S2 N2 SW SW

FORT SCOTT METHANE PARTNERS, LLC
Geologist Report

Well Name: Laughlin 20-14
API Number: 15-011-23250-00-00
Field Name: Wildcat
Location: Sec. 20-23S-23E, 950' FSL, 330' FWL, S/2 N/2 SW SW, Bourbon
County, Kansas
Total Depth: 710'
Formation at Total Depth: Mississippian
Target Formations: Cherokee Coals
Ground Elevation: 913'
Spud Date: July 17, 2007
Drilling Contractor: Mokat Drilling Inc.
Type Equipment: Air Rotary Rig
Surface Casing: 21' 8 5/8"
Hole Size: 6 3/4"

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7-17-07 Mark Beltz dug pit. DWC=400.

7-17-07 MIRU Mokat Drilling. Set 21' 8 5/8" surface csg, cement w/5 sx Portland cement. SDFN. DWC=800 TWC=1200

7-18-07 Safety meeting. Drilled to T.D. of 710'. RD Mokat. Moved to Laughlin 22-12, did not get surface csg set. Making repairs to drilling rig. Will drill Laughlin 22-12 on 7-20-07. SDFN DWC=9,000 TWC=10,200

Mulberry Coal: 185', fair show, bubbles formed on surfaces of cuttings, no popping

Pawnee Limestone: 190', med gray, slight pinpoint vuggy porosity, minor oil odor and minor oil show

Oswego Limestone: 264', med gray, fair oil odor, minor oil show, no visible gas show

Little Osage Shale: 282', shale, black, minor gas show

Squirrel Sand: 304', poorly developed sand, good oil odor at top, did not catch sample

Bevier Coal: 377', good gas show, vigorous popping in some samples

Croweburg Coal: 401', good gas show, good steady popping

Fleming Coal: 426', good show, scattered steady popping

Mineral Coal: 461', did not catch sample

Cattleman Sand: 473-478', ss, med brownish gray, good porosity, trace oil show, no gas show

Tebo Black Shale: 479', good show, steady popping common

Tebo Shale: Approx. 486', good gas show

Weir-Pitt Coal: 517', slight popping

569', Siltstone, med gray with dark laminations, fair-good popping on a few cuttings

Neutral Coal: 603', Good show, steady popping common

Riverton Coal: 632', good show, steady popping common

Very Poor Sample, Coal @ Approx. 643 (Archie Coal?)

Mississippian: top at 645', limestone, mottled drk and light brown, oil and gas bleeding from good vuggy porosity, good oil odor; oil and gas in limestone down to about 655'-658'

Approx. 675'-710', much of this interval is shale, limey, black, some cuttings with fair-good scattered popping; some limestone, white, tite in this interval

T.D. 710'; circulated hole clean for 20 minutes

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