

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY McDaniel RRS Corp
LEASE McDaniel 1-14
FIELD LOGAN
LOCATION SW 1/4 SW 1/4 - 177° FSL & 7/4° FWL
SEC 14 **T1/4SP** 15 S **R1/4E** 34 W
COUNTY LOGAN **STATE** KANSAS

CONTRACTOR Southwind Drilling, Inc
SPUD 1-4-18 **COMP** 1-14-18
RTD 4/7/18 **LTD** 4/7/18
MUD UP 3200' **TYPE MUD** Chemical

SAMPLES SAVED FROM 4000' **to RTD**
DRILLING TIME KEPT FROM 3600' **to RTD**
SAMPLES EXAMINED FROM 3600' **to RTD**
GEOLOGICAL SUPERVISION FROM 3600' **to RTD**
GEOLOGIST ON WELL Kevin L. Howard #236
By: Pioneer

FORMATION TOPS **ELECTRIC LOG** **SAMPLE**
Anyhydrite 2374 (-443) 2377 (-440)
Base Anyhydrite 2392 (-425) 2396 (-421)
Topoka
Heebner Shale 3875 (-438) 3878 (-461)
Toronto 3892 (-475) 3896 (-479)
Lansing 3819 (-302) 3918 (-301)
BKC 4274 (-1299) 4276 (-1261)
Pawnee 4414 (-1397) 4422 (-1405)
Mississippi 4650 (-11633) Not Called

EL EVATIONS
KG 3017'
DF
GL 3007'

Measurements are All From KB
CASING
CONDUCTION N/A
SURFACE 8-5/8" @ 308'
PRODUCTION 0 & A
ELECTRICAL SURVEYS CND/D/SP/P/E

REMARKS: The McDaniel 1-14 ran 21 feet high at the Anyhydrite and thickened to 8 feet high through the LKC then thinned to the Mississippi and ended up 77 feet high at the top of the Mississippi to the control well (KB Norton; McDaniel #2 dry hole). The Lansing, Kansas City, Marmaton and Cherokee zones that pay in the area did not contain any oil. Wireline log calculations suggested the Altamont A, Marmaton and Kansas City J Zones could contain gas. DST 1 was a stratide test covering the Altamont and upper Marmaton and recovered 20 feet of mud with poor pressures. DST #2 covered the LKC J zone and recovered 140 feet of water and some mud with no oil shows. Due to poor development and lack of oil shows along with negative DST results, it is recommended by all that the McDaniel be plugged and abandoned at 4738 LTD.

Note: Someone on Evening or Morning Tower threw the samples from 3600' to 4000' away

Respectfully Submitted,
Kevin Howard #236
Petroleum Geologist

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