Robert D. Hendrix
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG
ELEVATIONS
KB: 3092'

COMPANY: Lansing Exploration, LLC
FIELD: McDonald NE
LOCATION: 2426' S & 1,256' W of
COUNTY: Ness County STATE: Kansas
SPUD: 10/12/2010 COMP: 10/20/2010
CONTRACTOR: Discovery Drilling Rig #2
MUD UP: 3300 TYPE MUD: Chemical
DISPOSAL OF SURPLUS MUD: Hauled to Disposal Pit
CASING: Surface: 8 5/8" @ 218'
PRODUCTION: 5 1/2"
DRILLING TIME: Every 10' from 3300' to TD
SAMPLES SAVED FROM: 3300 TO TD
SAMPLES EXAMINED FROM: 3300 TO TD
GEOLOGICAL SUPERVISION FROM: 3300' TO TD
FORMATION TOPS: ELECTRICAL LOG SAMPLE
Topeka 3366 (-1677) 3366 (-1677)
Heebner Shale 3665 (-1976) 3665 (-1976)
Lansing 3706 (-1417) 3706 (-1417)
Pawnee 4125 (-1836) 4125 (-1836)
Fort Scott 4203 (-1914) 4203 (-1914)
Cherokee 4226 (-1937) 4226 (-1937)
Mississippian 4299 (-2010) 4299 (-2010)
RTD 4365 (-2076) 4365 (-2076)
ELECTRICAL SURVEY BY: Discovery Wireline
DRILLER: Jason Wiring
GEOLOGIST: Robert D. Hendrix
ELEVATIONS: KB: 2092'
DF: 2089'
GL: 2084'
ELECTRICAL SURVEY: Discovery Wireless
DRILLER: Jason Wiring
GEOLOGIST: Robert D. Hendrix
ELEVATIONS: KB: 2092'
DF: 2089'
GL: 2084'
Mississippi Kansas Ark Mo
Ness County Kansas
Lansing Exploration, LLC
McDonald NE
Sec. 30-T20S-R25W
2426' S & 1256' W

REMARKS:

The samples contained an abundant amount of shale from the Lansing to the Pawnee making lithology identification difficult. Shale samples from the Pawnee and below and relative high sub-sea position lit is strongly recommended that production casing be set on this well for production.

LEGEND

DRILLING TIME IN MINUTES PER FOOT (Rate of Penetration Decreases)

DEPTH

LITHOLOGY

Shale & Show

SAMPLE DESCRIPTION

REMARKS

Lime Shale Sandstone Chert Dolomite Cuttings Cores Cum Oil Cherty LS Chert Dolomite

Anhydrite 1559(+730)

Base Anhydrite 1594 (+695)

Topeka 3366 (-1677)
Geologist on location 3367' at 7:30 pm 10/22/2012
Circulated 90 mud up complete at 3:30 am of morning Sun Rise dive as well.
wt 6.5, vis. 45, bin 24
Mud Co., Jason Wiring

Heebner Shale 3665 (-1976)

Lansing 3706 (-1417)
8:00am, 10/23/2012

wt 8.9, vis. 45, bin 24
Mud Co, Tyler Lang

BKC 4003 (-1714)
8:00am, 10/24/2012

Pawnee 4125 (-1836)

Ft Scott 4203 (-1914)

Cherokee 4226 (-1937)
4:00am, 10/25/2012
drop 0.3? short
wt 9.2, vis. 50, bin 24
Mud Co, Tyler Lang

Mississippian 4299 (-2010)
wt 9.3, vis. 45, bin 24
Mud Co, Tyler Lang

wt 9.1, vis. 47, bin 24
Mud Co, Tyler Lang

8:00am, 10/26/2012

RTD 4365 (-2076)

Geologist off location at 3:45pm, 10/26/2012