

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

ELEVATIONS

LEASE Lundgren #2-36

FIELD Lundgren

LOCATION 1215th St & 865th Eel

SEC 36 TWP 14 S RGE 30W

COUNTY Gove STATE Kansas

CONTRACTOR Murfin Drilling Co Inc Rig 2

SPUD 11/24/2012 COMP 12/3/2012

RTD 4450 LTD 4456

MUD UP 3600 TYPE MUD Chemical

MEASUREMENTS ARE ALL FROM Kentley Bushing

CASING CONDUCTOR

SURFACE 5:15:49.290'

PRODUCTION 5 1/2"

SAMPLES SAVED FROM 3370' TO TD

DRILLING TIME KEPT FROM 3370' TO TD

SAMPLES EXAMINED FROM 3370' TO TD

GEOLOGICAL SUPERVISION FROM 3370'

GEOLOGIST ON WELL Robert D. Hendrix

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Base Anhydrite	2138 (-569)	2100 (-595)
Topeka	3472 (-772)	3468 (-773)
Keokuk Shale	3692 (-1002)	3688 (-1003)
Starbuck Shale	3723 (-1030)	3725 (-1030)
Stark Shale	3979 (-1284)	3976 (-1281)
Heebner	4178 (-1383)	4170 (-1425)
Ft Scott	4232 (-1537)	4232 (-1537)
Mississippi	4337 (-1642)	4325 (-1630)

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REMARKS: The multiple positive DST's along with good structural position it is strongly recommended that production casing be set on this well.

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LEGEND

