Joshua R. Austin Petroleum Geologist report for Lebsack Oil Production, Inc.
COMPANY: LEBSACK OIL PRODUCTION INC.
LEASE: RAYMOND #1-H
FIELD: GROVE
SURFACE LOCATION: 150' FSL & 200' FWL
BOTTOM HOLE LOCATION: aprox. 2044' FSL & 1033' FWL
SEC: 27 TWSP: 20s RGE: 10w
COUNTY: RICE STATE: KANSAS
KB: <u>1732</u> GL: <u>1719</u>
API # 15-159-22773-01-00
CONTRACTOR: STERLING DRILLING COMPANY (Rig #4)
Spud: 04/03/2014 Comp: 04/17/2014
MD: 4989' TVD: 3069'
Mud Up: 2734' Type Mud: Chemical was displaced
Samples Saved From: 2400' TO 4989'
Geological Supervision From: 2500' TO RTD
Geologist on Well: Josh Austin
Surface Casing: <u>13 3/8" @ 292' KB</u>
7" @ 2729' KB Production Casing: Liner hanger at 2645' and 4 1/2" casing set at 3062'

Lebsack Oil Production Inc.

Raymond Lease - Rice County, KS Raymond #1-H 13' RKB - 1719' GL @ 1732.0usft (Sterling Drilling #4) Longitude: 98° 25' 27.736 W Latitude: 38° 16' 30.433 N Northing: 1898024.71 Easting: 1334044.22 Design #2



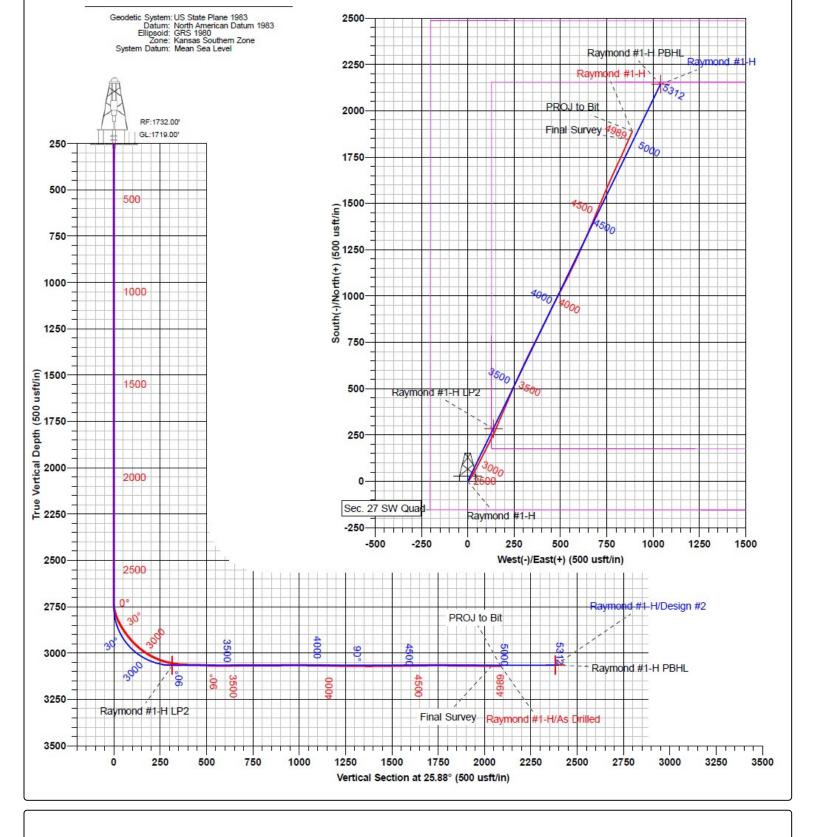
М Azimuths to True North Magnetic North: 4.63°

A Magnetic Field Strength: 52276.1snT Dip Angle: 66.10° Date: 226/2014 Model: IGRF2010_14 To convert a Magnetic Direction to a Grid Direction, Subtract 0.05°

WELL DETAILS: Raymond #1-H

PROJECT DETAILS: Raymond Lease

Ground Level: 1719.0 Easting Latittude Longitude 1334044.2238° 16' 30.433 N 98° 25' 27.736 W +N/-S +E/-W 0.0 0.0 Northing 1898024.71



04/02/14 rigged up and spudded at 10:15 am. Drilled 17-1/2" hole to 294'. Ran 7 joints new, 54.5#, 13-3/8" casing. Tallied 294', set at 292' KB. Cemented with 325 sacks Class A:, 2% Gel, 3% C.C. & 1/4# CF. Cement did circulate. Plug down at 2:30 am on 04/03/14 by Allied Cementing

04/03/14 Wait on Cement at 294' at 7 am. Drilled 294 in 24 hours.

04/04/14 Drilling with 9-7/8" bit at 1,205' at 7:00 am. Drilled 911' in 24.00 hours.

4/5/2014 Drilling with 9-7/8" bit at 2,065' at 7:00 am. Drilled 860' in 24.00 hours.

04/06/14 Short tripping at 2724' at 7 am. Made 669' feet in 24 hours.

04/07/14 Drilled 9-7/8" hole to 2734'. 1st Short trip was tight entire trip. 2nd short trip much better. Second Casing string of 7": Ran 7 joints new, 25.0#, 7" casing. Tallied 2729.72' with 0.80' FS on bottom. Shoe joint = 34.41'. Set at 2729.72' KB. Cemented with 125 sacks ASC with: 10% Salt, 2% Gel, 6% Gypseal. Plug down at 4:30 am on 04/07/14. WOC at 2734' at 7 am.. Made 0' in 24.00 hours.

04/08/14 Wait on Cement 24.00 of accumulated 26.50 hours at 2734' at 7:00 am. Made 0' in 24.00 hours.

04/09/14 Wait on Cement 24.00 of accumulated 50.50 hours at 2734' at 7:00 am. Made 0' in 24.00 hours.

4/10/2014 Drilled cement plug with water then displaced with saved 9-7/8" hole mud. Displacing mud system at 2734' at 7 am after drilling cement. Made 0 feet in 24 hours.

4/11/2014 Tripped out at 2798' to reset BHA tools at 7:00 am. Made 64' (all curve) in 24.00 hours.

04/12/14 Spot 30 Bbl Oil for shale in curve at 2861' making curve at 3,082' at 7:00 am. Made 284' (all curve) in 24.00 hours.

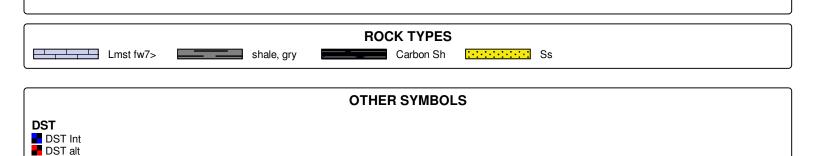
4/13/2014 Tripped out at 3303' to change BHA and bit to a PDC, 1.50 degrees from Horizontal. Changing out BHA and Bit at 3303' at 7:00 am. Made 221' in 24.00 hours.

04/14/14 Tripped in with bit #2 at 3303'. Drilling at 3765' at 7:00 am. Drilled 463' in 24.00 hours.

04/15/14 Tripped out at 3950' to check mud motor to orientate. Drilling at 4229' at 7:00 am. Drilled 464' in 24.00 hours.

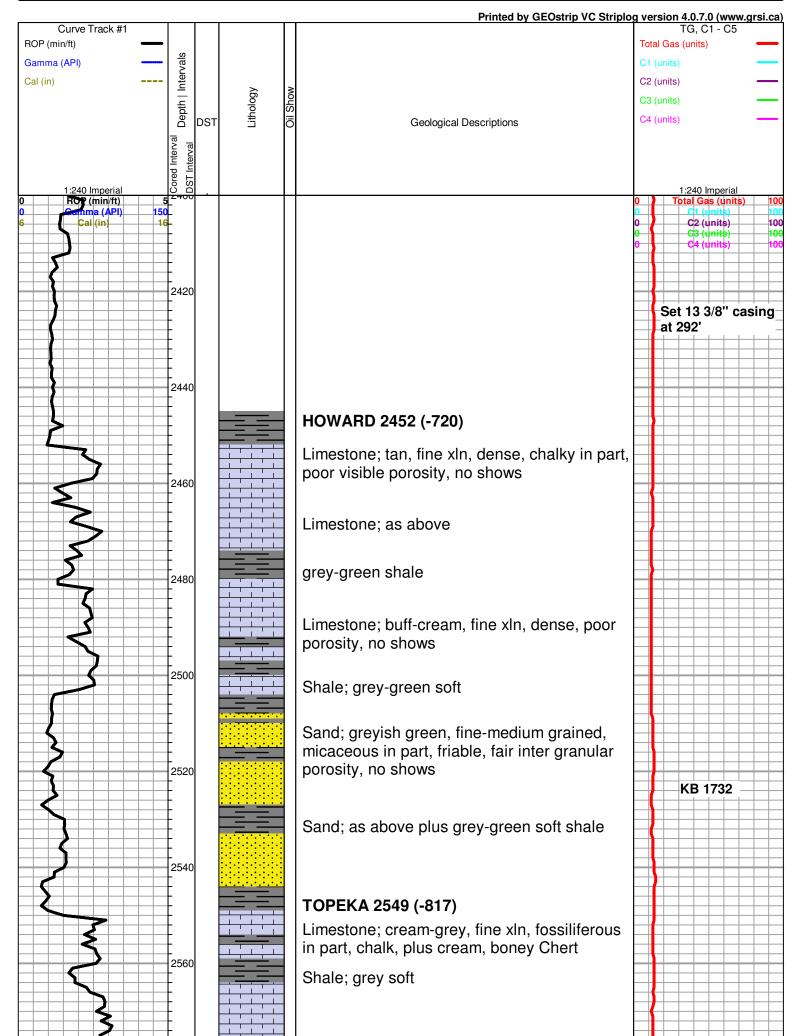
04/16/14 Drilling at 4915' at 7:00 am. Drilled 686' in 24.00 hours. Added 20 bbl oil to mud system 4325'

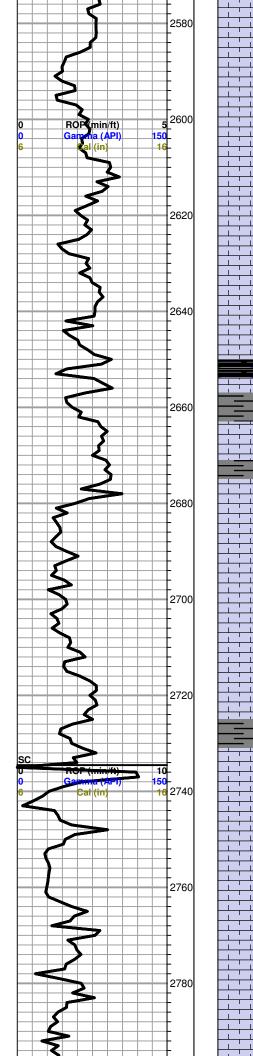
04/17/14 Lost returns at 8:45 am on Wednesday at 4989'. Stop there and set production casing, RTD (Total Length) = 4989', did not log hole. Ran 17 joints of new 4.5" casing. Casing hanger at 2645' KB. Casing set at 3062' KB.



Cor







Limestone; cream, fine-medium xln, chalky in part, slighlty fossiliferous, poorly developed porosity, no shows

Limestone; as above plus white chalk

Limestone; grey-cream, fine xln, slightly granular, few fossiliferous pieces, no shows

Limestone; cream-tan, fine xln, dense, chalky in part, no show

black carboniferous shale

grey shale

Limestone; cream-grey, fine xln, fossiliferous, dense,

Limestone; tan-cream, fine-medium xln, granular, fossiliferous, few scattered porosity, no shows, Chert; grey-cream

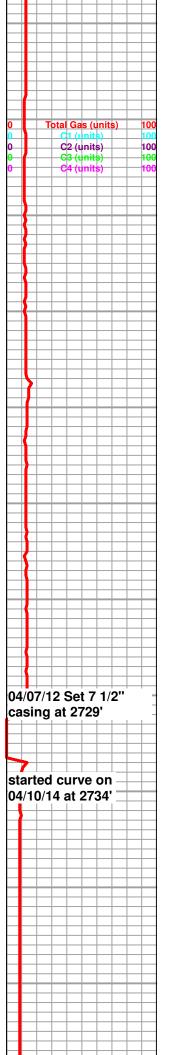
Limestone; as above plus grey boney Chert

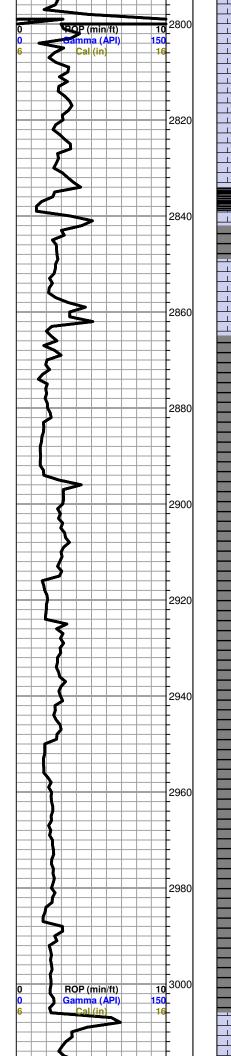
grey shale

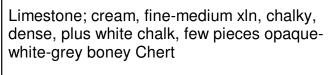
Limestone; cream-grey, fossiliferous, poorly developed porosity, no shows, dense

Limestone; as above

Limestone; cream-white, fine xln, few scattered vuggy porosity, no shows, trace Chert; white-grey, boney







HEEBNER 2835 (-1103)

Black Carboniferous Shale

TORONTO

Limestone cream, fine xln, chalky, dense, few scattered porosity, no shows

DOUGLAS SHALE

Shale; greyish green, soft, micaceous, few silty pieces, (gummy in part)

Shale as above

Siltstone; grey-greyish green, micaceous, silty, plus grey-greyish green soft silty; Shale

Shale and Siltsone as above

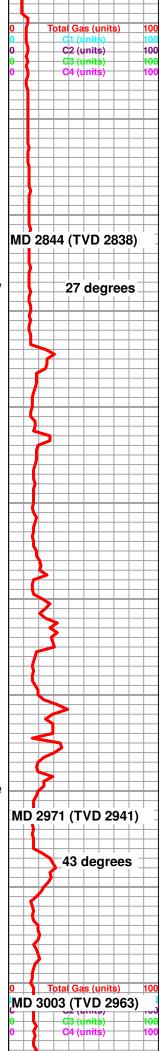
Shale; grey-greyish green, few maroon pieces, micaceous, silty in part, soft

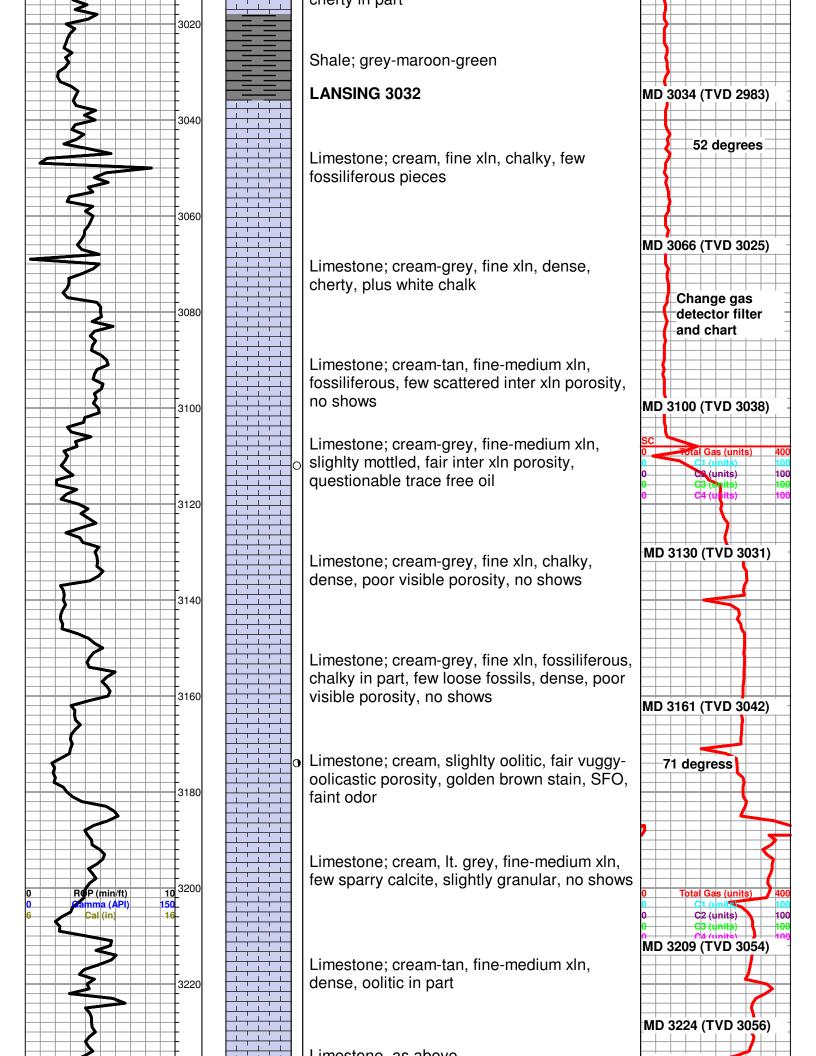
Shale; grey-green, soft silty in part, few fissile pieces

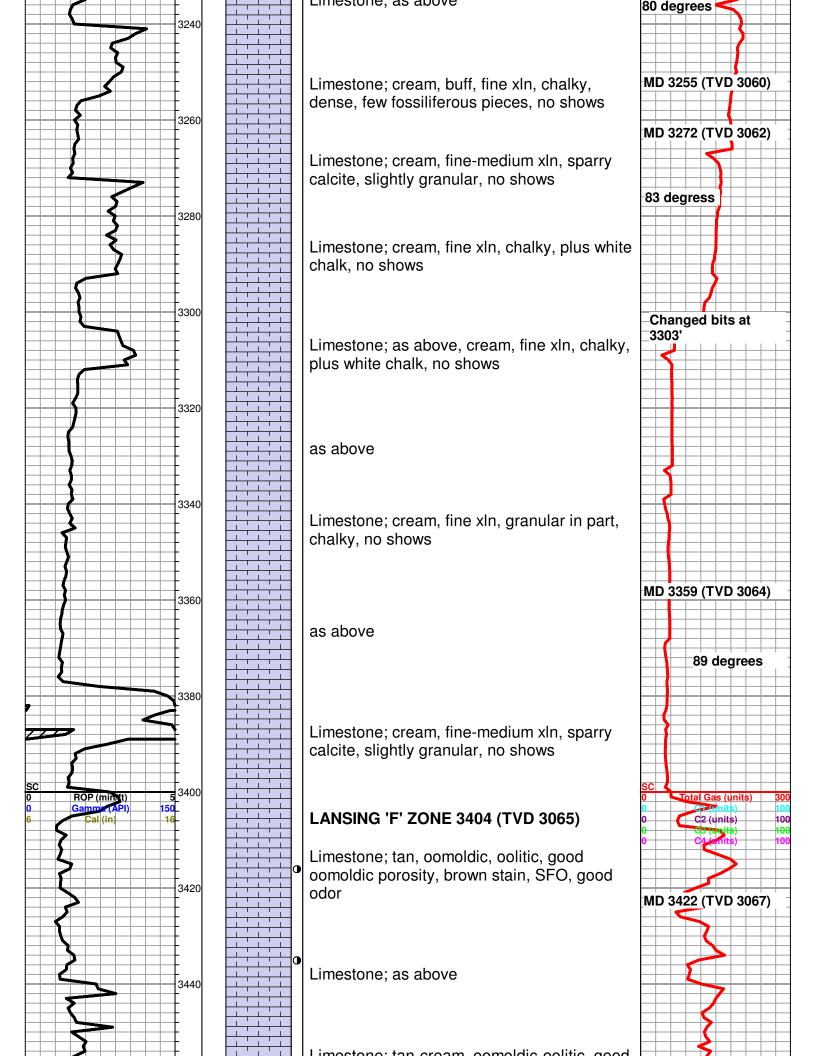
Shale; grey-dark grey, soft

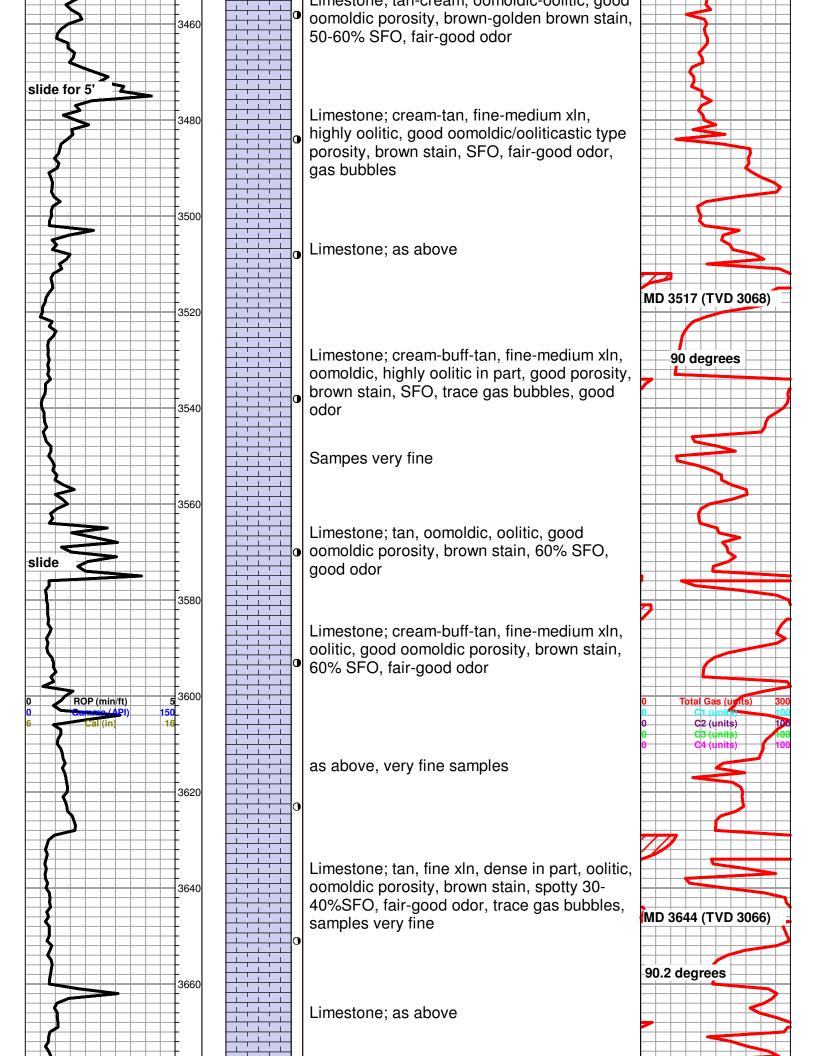
BROWN LIME 3005 (-1273)

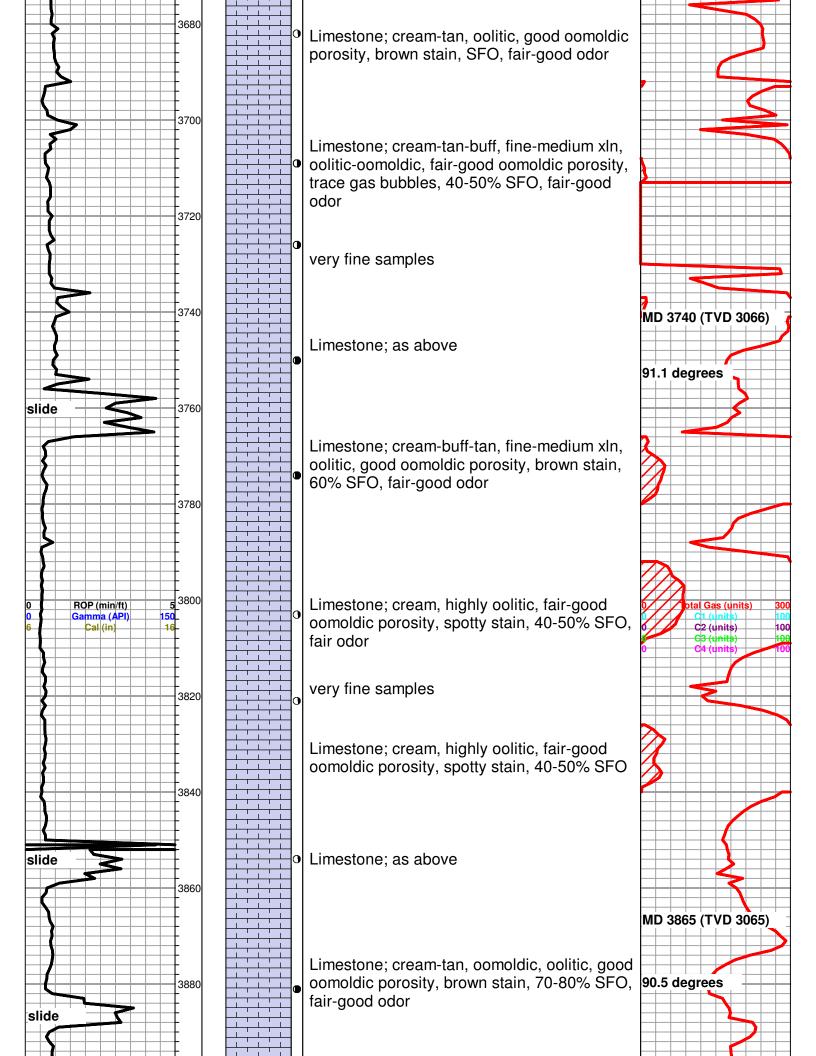
Limestone; tan-brown, fine xln, fossiliferous, cherty in part

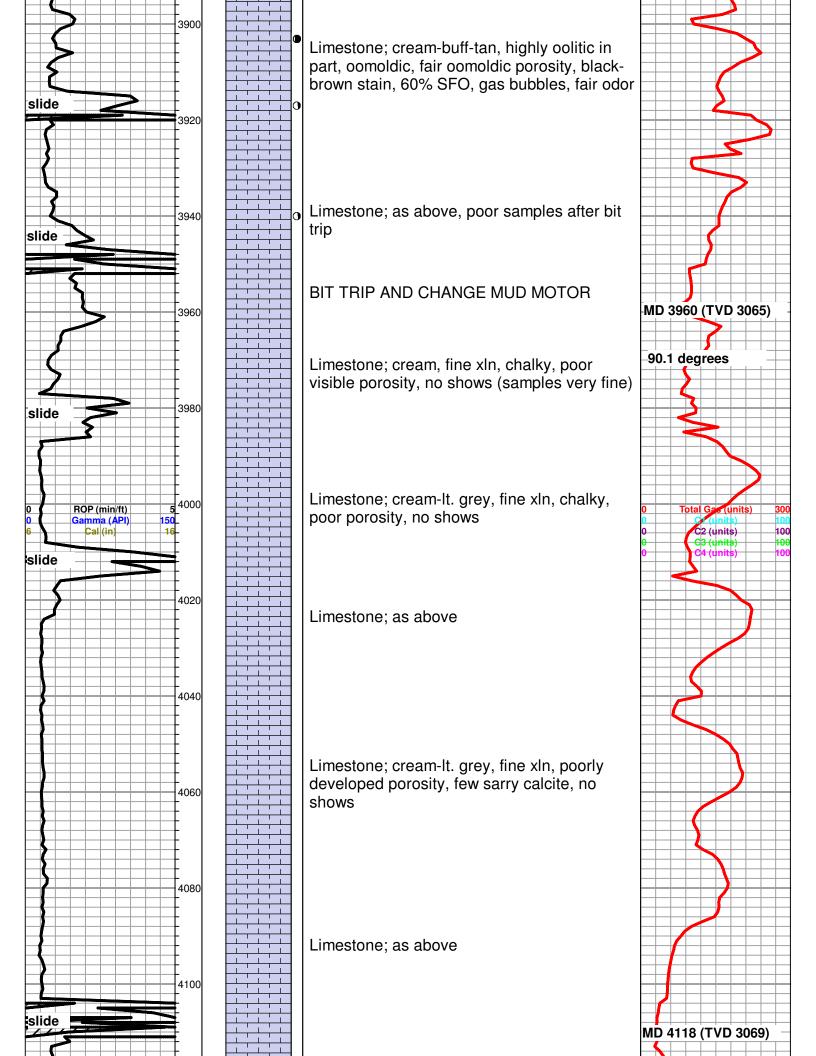


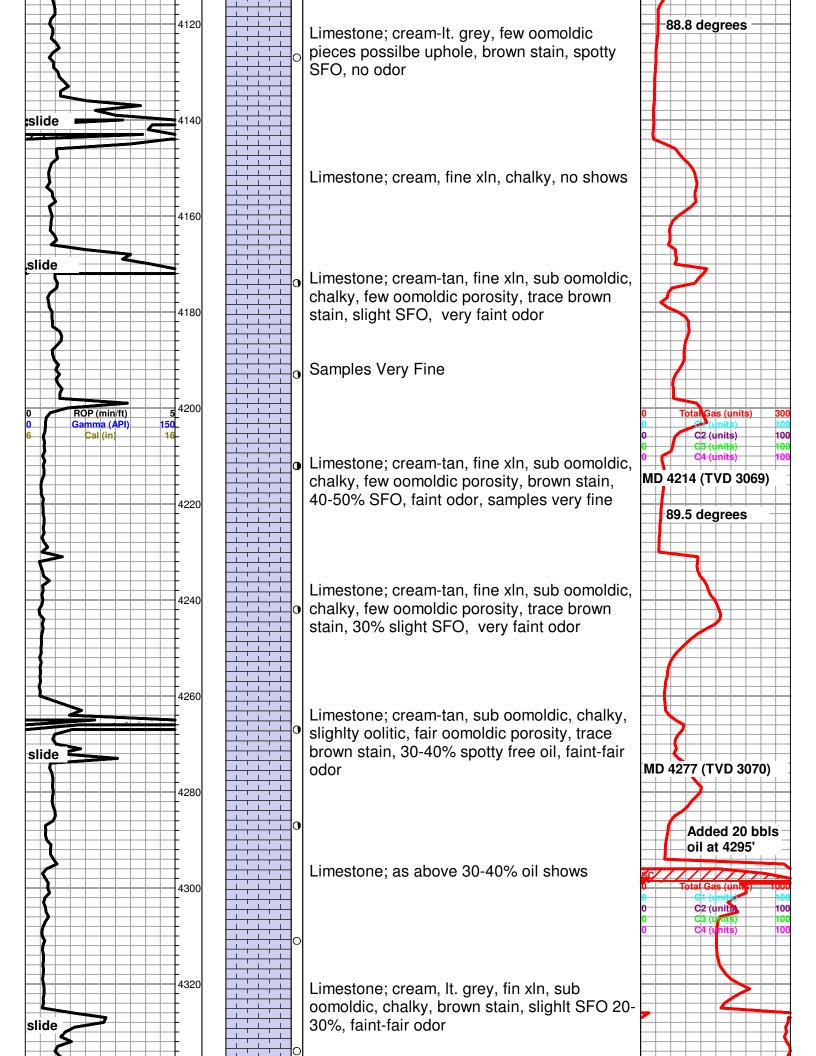


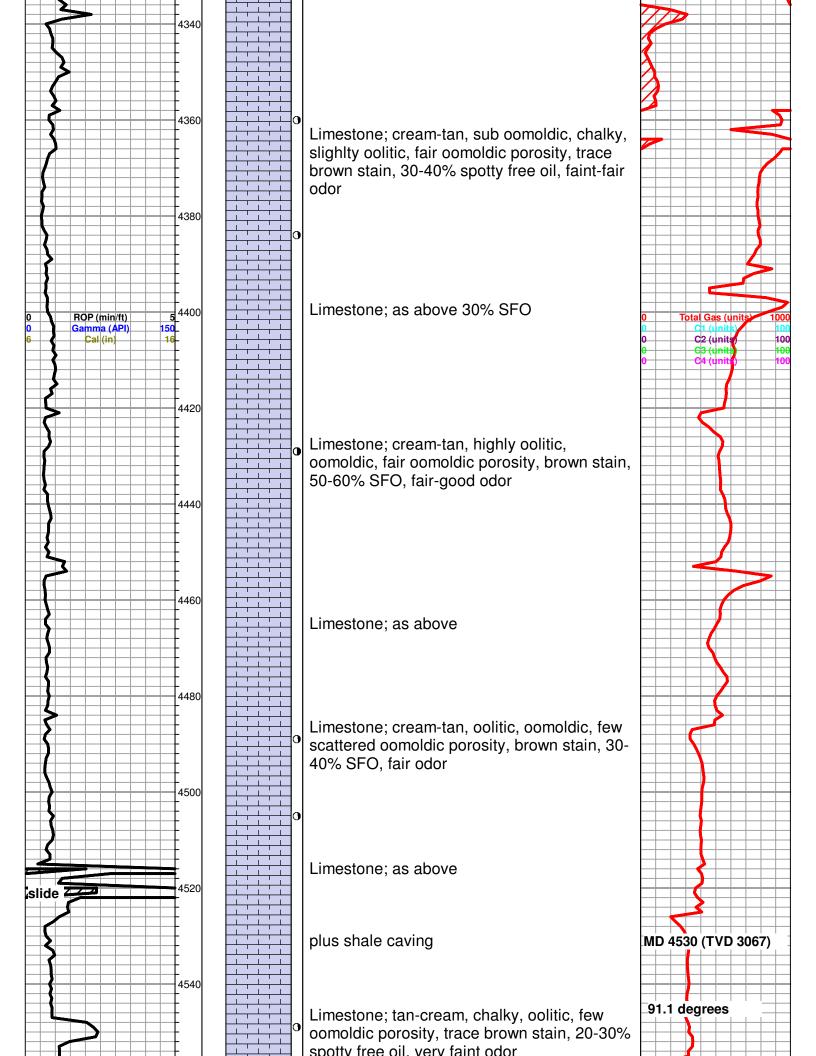


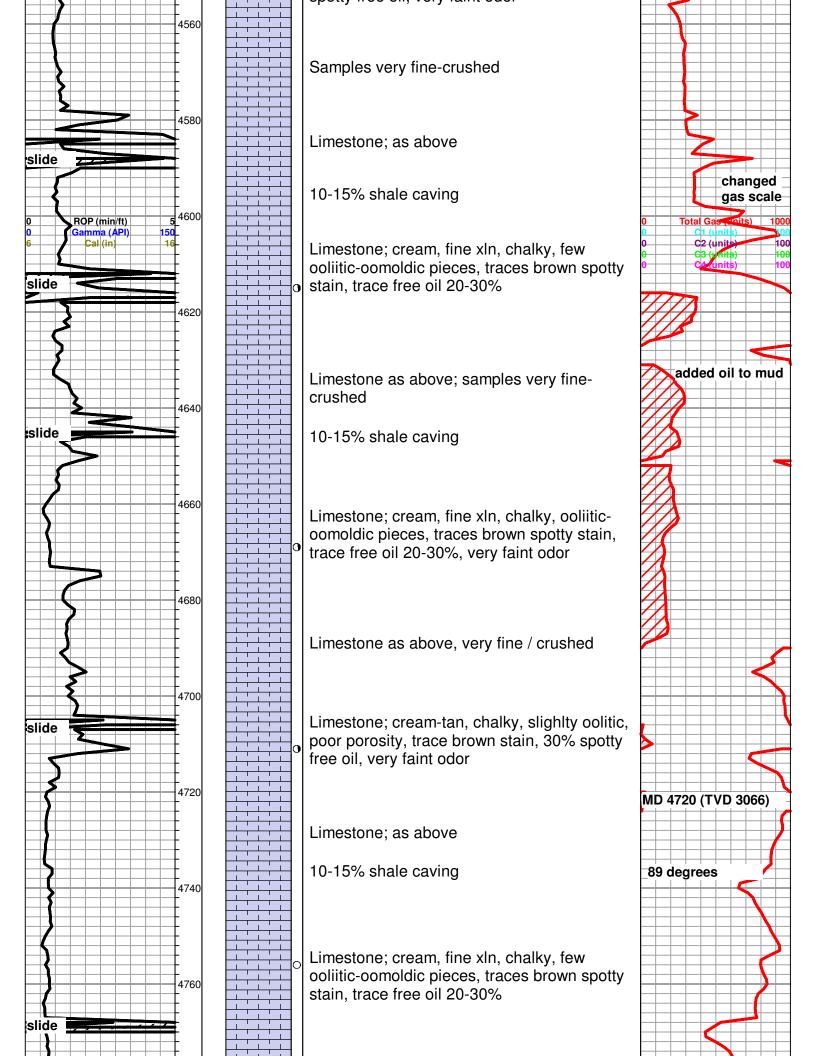


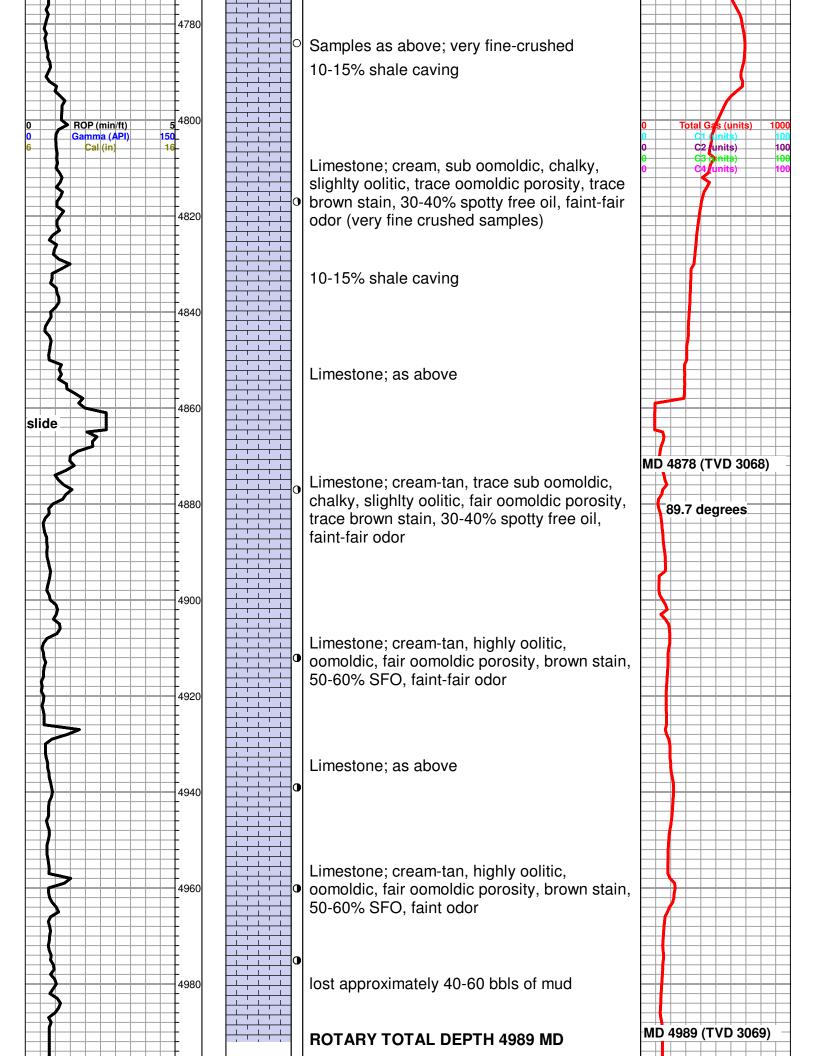












89.1 degrees
0 Total Gas (units) 1
0 C1 (units)
0 C2 (units)
0 C3 (units)
0 C4 (units)