



Joshua R. Austin
Petroleum Geologist
report for

Lebsack Oil Production, Inc.



COMPANY: LEBSACK OIL PRODUCTION INC.

LEASE: North River #8

FIELD: GROVE

SURFACE LOCATION: N2-N2-S2-SW (1150' FSL & 1320' FWL)

SEC: 27 TWSP: 20s RGE: 10w

COUNTY: RICE STATE: KANSAS

KB: 1738' GL: 1727'

API # 15-159-22844-00-00

CONTRACTOR: STERLING DRILLING COMPANY (Rig #4)

Spud: 05/08/2017 Comp: 05/13/2017

RTD: 3200' LTD: 3196'

Mud Up: 2673' Type Mud: Chemical was displaced

Samples Saved From: 2400' to RTD

Geological Supervision From: 2750'to RTD

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @265'

Production Casing: 5 1/2" @ 3191'

NOTES

After reviewing the electric logs, drill stem test and evaluating the samples, it was recommended by all parties involved with the North River #8 to set 5 1/2" production casing to further test the Lansing 'F' zone at 3061-3070.

Lebsack Oil Production Inc.
well comparison sheet

| | | |
|--|-----------------------|---------------|
| Recovered _____ ft. of _____ | Chlorides: 30,000 PPM | Price Job |
| Recovered _____ ft. of _____ | RW: .2 @ 75 Deg | Other Charges |
| Remarks: Tool Sample: 2% G 15% O 48% W 35% M | | Insurance |
| | | Total |

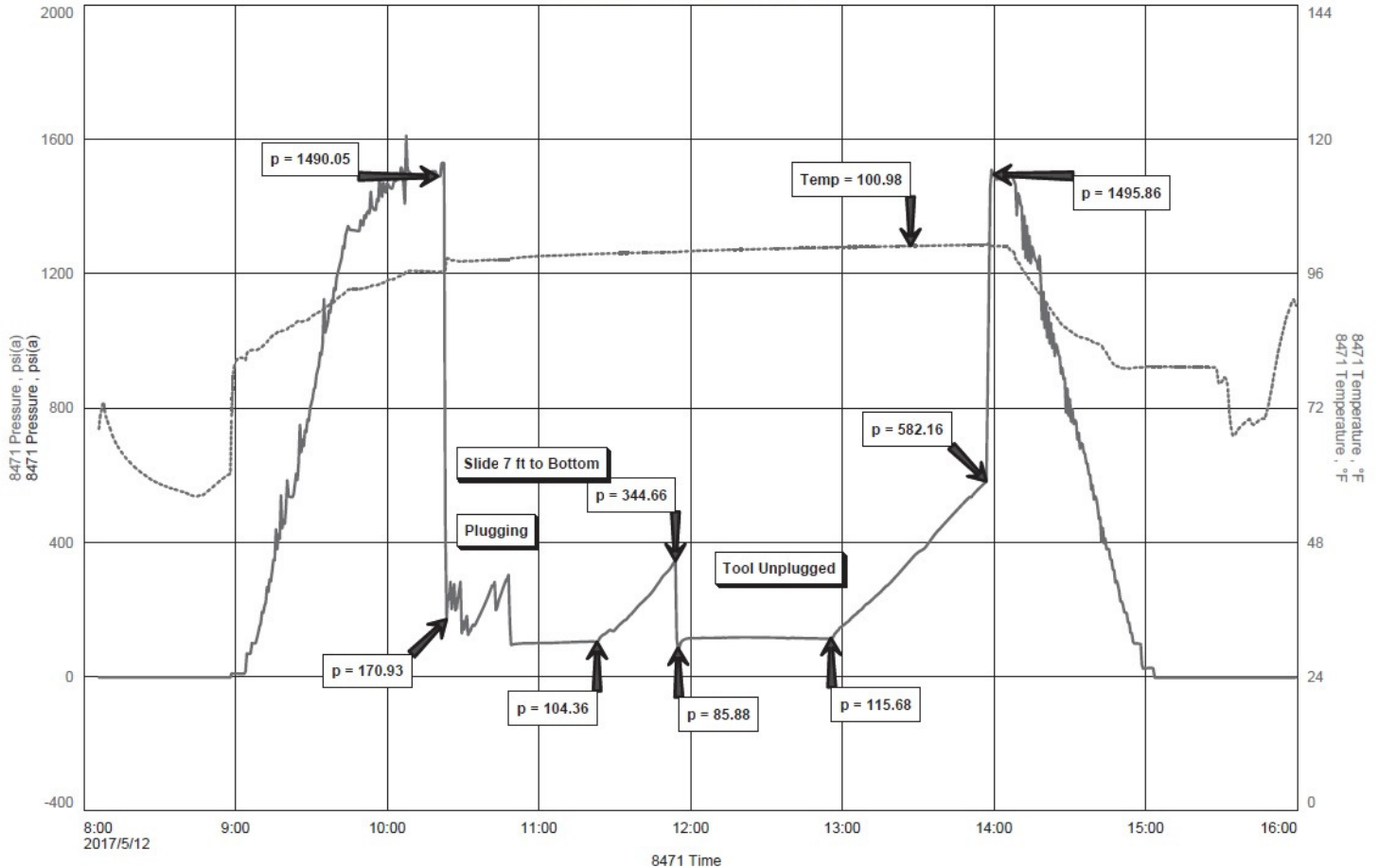
| | | |
|--|--------------------------------------|-------------------------|
| Time Set Packer(s) 10:24 AM A.M. | Time Started Off Bottom 1:54 PM P.M. | Maximum Temperature 111 |
| Initial Hydrostatic Pressure..... (A) 1490 P.S.I. | | |
| Initial Flow Period..... Minutes 60 (B) 171 P.S.I. to (C) 104 P.S.I. | | |
| Initial Closed In Period..... Minutes 30 (D) 345 P.S.I. | | |
| Final Flow Period..... Minutes 60 (E) 86 P.S.I. to (F) 116 P.S.I. | | |
| Final Closed In Period..... Minutes 60 (G) 582 P.S.I. | | |
| Final Hydrostatic Pressure..... (H) 1496 P.S.I. | | |

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Lebsack Oil Production
 Dst 1 Lans F (3063-3083)
 Start Test Date: 2017/05/12
 Final Test Date: 2017/05/12

North River # 8
 Formation: Dst 1 Lans F (3063-3083)
 Pool: Pool Ext
 Job Number: RR280

North River # 8

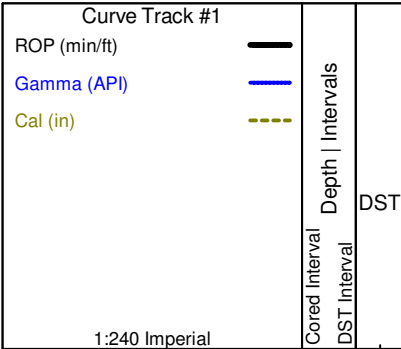


ROCK TYPES

- Lmst fw7>
- shale, gry
- Carbon Sh
- Slst

OTHER SYMBOLS

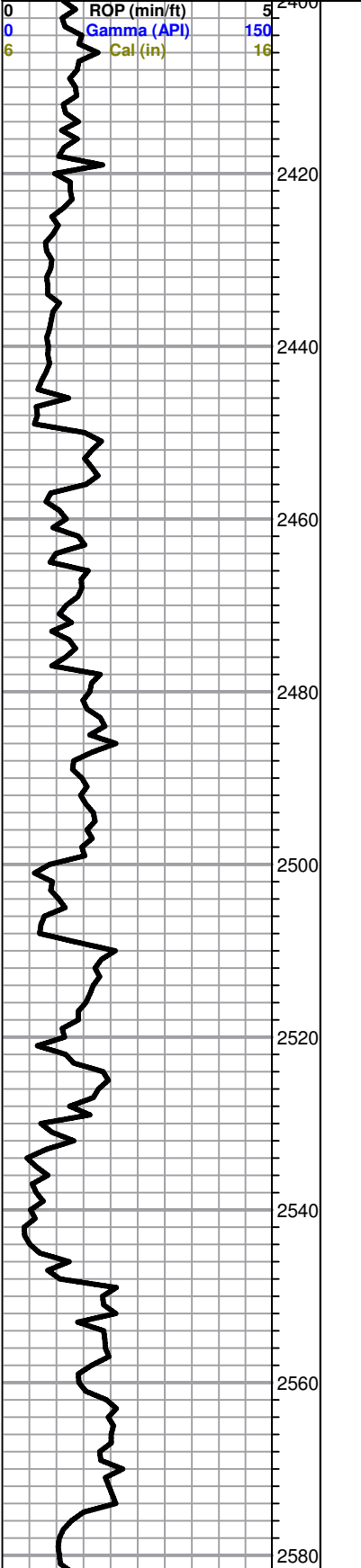
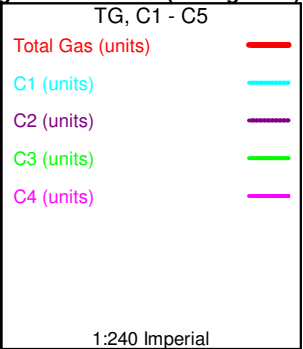
- DST**
- DST Int
 - DST alt
 - Core
 - tail pipe



Lithology

Oil Show

Geological Descriptions



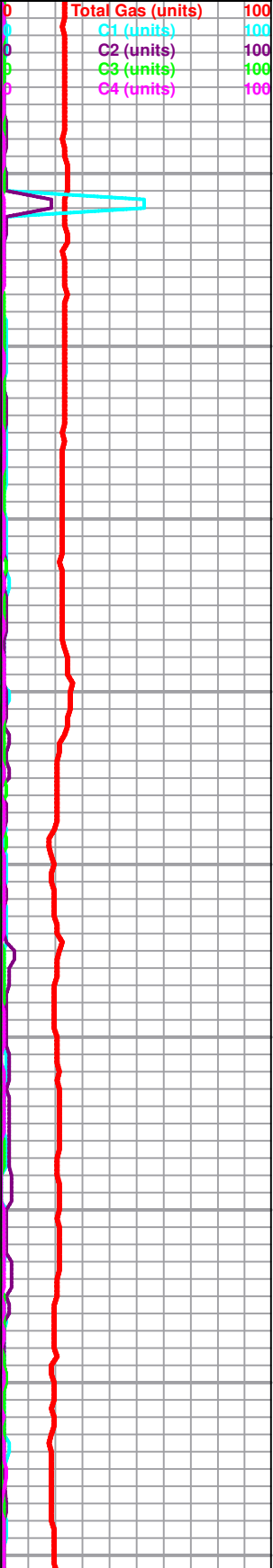
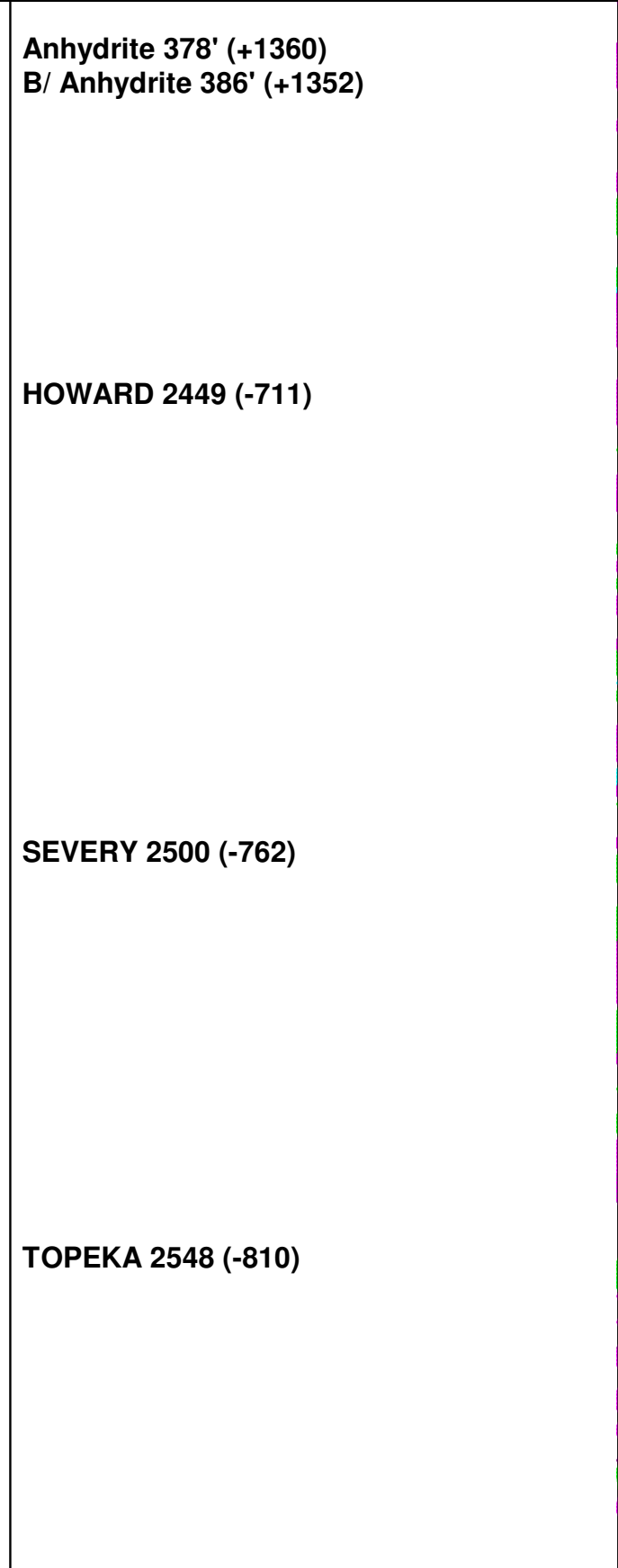
Anhydrite 378' (+1360)

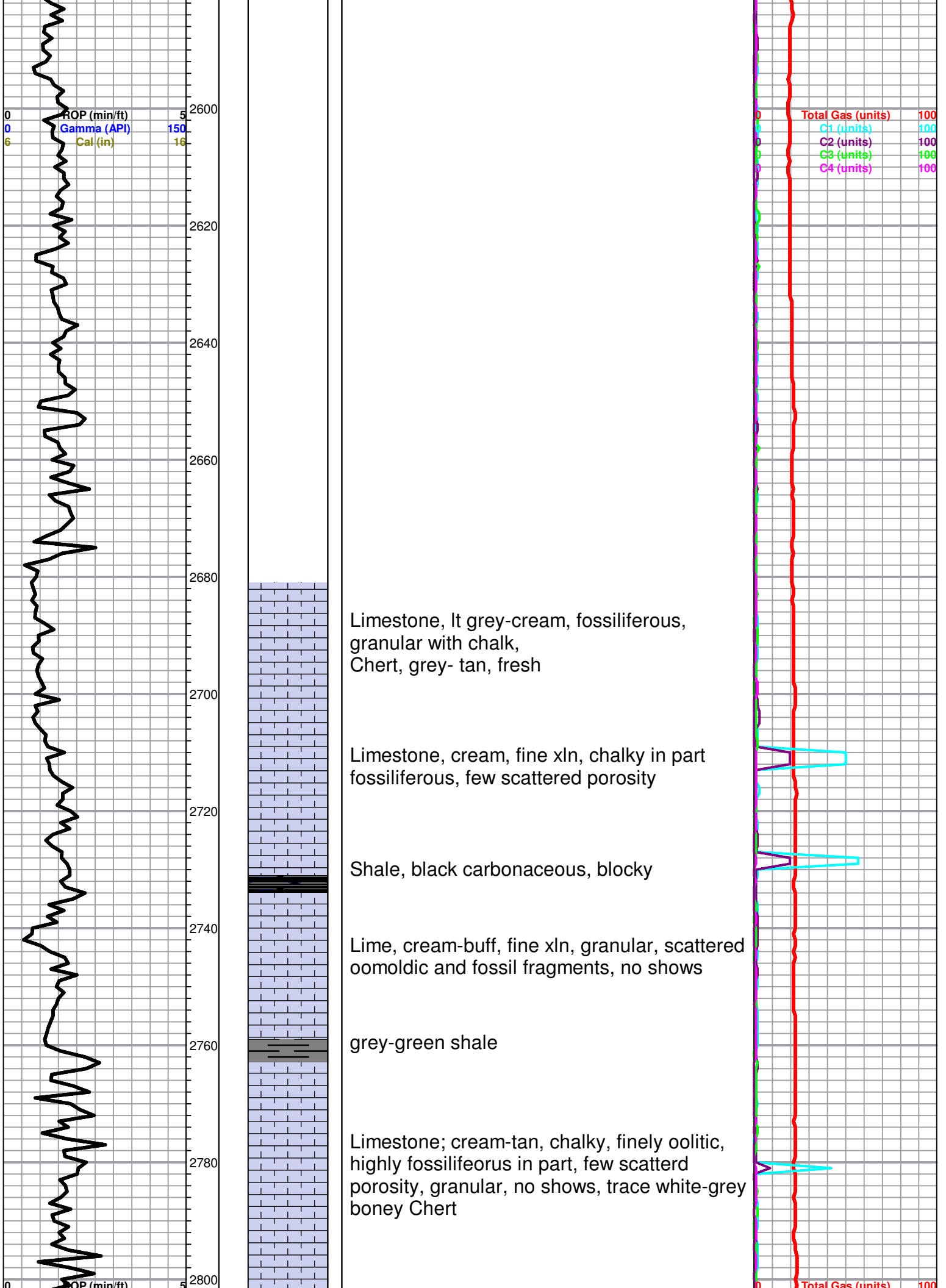
B/ Anhydrite 386' (+1352)

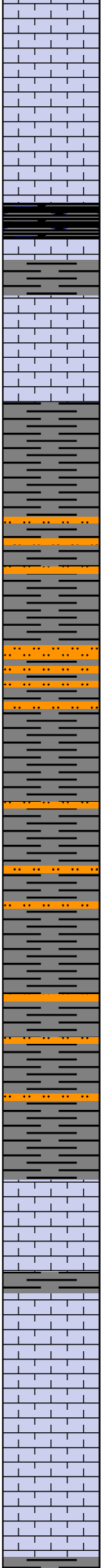
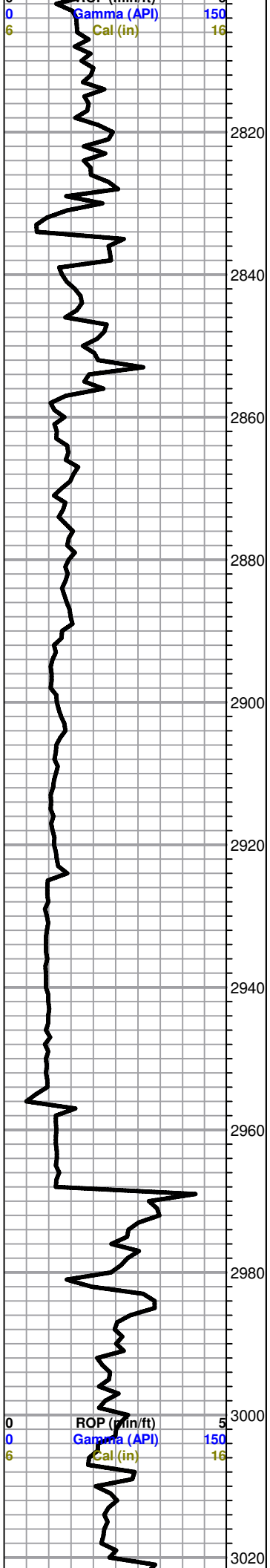
HOWARD 2449 (-711)

SEVERY 2500 (-762)

TOPEKA 2548 (-810)







Limestone as above; cream-tan, finely fossiliferous, granular in part, few mottled pieces, chalky, scattered porosity, no shows

HEEBNER 2830 (-1092)

Shale, black carbonaceous, fissile, blocky

Limestone; cream, fine xln, dense, cherty

DOUGLAS 2857 (-1119)

Shale, grey-dark, moderately firm and blocky, waxy

Shale; green-greyish green, soft, silty in part, slightly micaceous, trace siltstone; greyish green

Siltstone; lt. grey-white, very fine grained, sub rounded, sub angular, friable, poor intergranular porosity, micaceous in part, no shows

Shale; grey-greysih green, micaceous in part, slightly silty, plus Siltstone

Shale and Siltstone as above

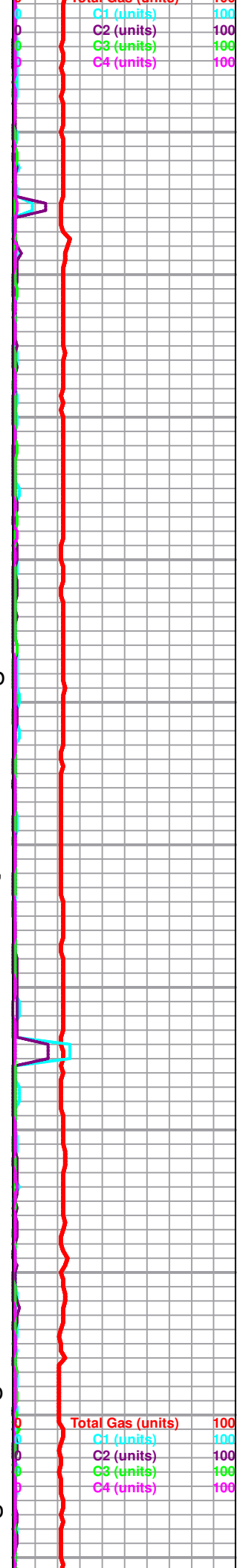
BROWN LIME 2968 (-1230)

Limestone; buff-grey-lt. brown, fine xln, fossiliferous, cherty, dense

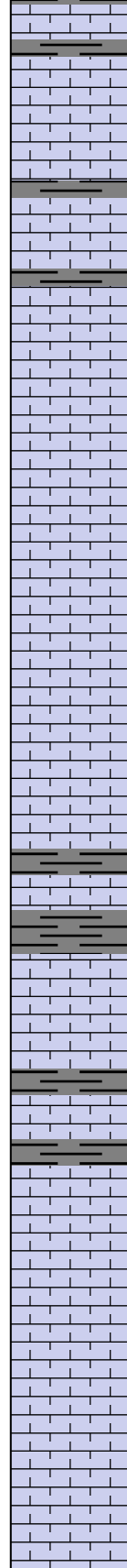
LANSING 2981 (-1244)

Limestone; cream-tan, micro-fine xln, highly oolitic in part, chalky in part, poor porosity, no shows

Limestone; cream, fine xln, chalky in part, fossiliferous-oolitic, few scattered porosity, no shows



3040
3060
3080
3100
3120
3140
3160
3180
3200
3220
3240



Limestone; cream-lt. grey-buff, fine xln, dense, cherty, poor visible porosity, slightly fossiliferous, no shows

Limestone; cream-lt. grey, fine-medium xln, fossiliferous-oolitic, poorly developed porosity, cherty in part, no shows, plus Chert, grey, opaque, fresh

LANSING F ZONE 3065 (-1327)

Limestone; cream-tan, oolitic, fair oomoldic porosity "tight", brown stain, spotty SFO, fair odor

Limestone; cream-lt. grey-buff, fine xln, slightly chalky, dense, few fossiliferous/oolitic pieces, cherty in part, no visible porosity, no shows, plus Chert; cream-off white, boney, fresh

Limestone; buff-tan, fine xln, dense, cherty, slightly fossiliferous, no shows

Shale; grey-green silty in part

Limestone; cream-buff, fine xln, chalky, shaley in part

dark grey-green Shale

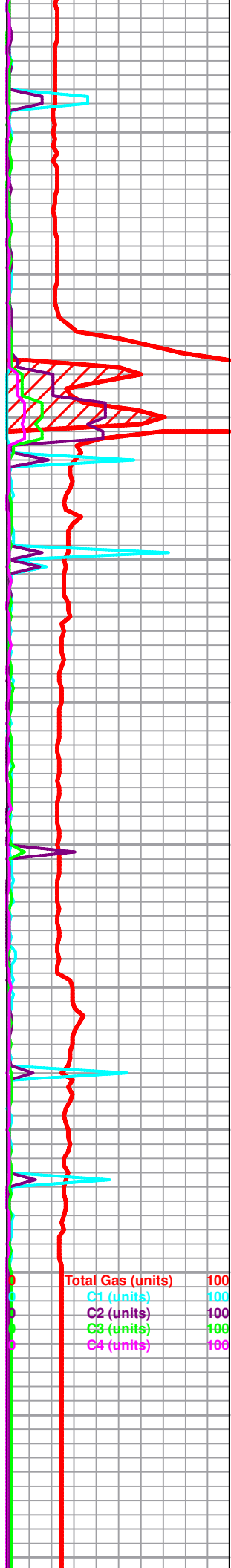
Limestone; cream-off white, chalky, poorly developed porosity, no shows

Limestone; cream-buff, fine xln, chalky, fossiliferous in part, no visible porosity, no shows, plus white chalk

Limestone; as above

Limestone; grey-buff, fine xln, fossiliferous, dense, slightly cherty, few inter xln porosity, no shows

ROTARY TOTAL DEPTH 3200 (-1462)



Total Gas (units) 100
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100

ROP (min/ft) 5
 Gamma (API) 150
 Cal (in) 16

