



Joshua R. Austin

Petroleum Geologist

report for



Lebsack Oil Production, Inc.

COMPANY: LEBSACK OIL PRODUCTION INC.

LEASE: North River #5

FIELD: GROVE

SURFACE LOCATION: 1320' South, 1320' East, from NW corner

SEC: 34 TWSP: 20s RGE: 10w

COUNTY: RICE STATE: KANSAS

KB: 1725' GL: 1716'

API # 15-159-22186-0000

CONTRACTOR: STERLING DRILLING COMPANY (Rig #4)

Spud: 12/16/2014 Comp: 12/22/2014

RTD: 3250 LTD: 3248

Mud Up: 2647 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" @ 264'

Production Casing: 5 1/2" @ 3235'

NOTES

On the basis of the positive structural position, drill stem test and after reviewing the electric logs, it was recommended by all parties involved in the North River #5 to run 5 1/2" production casing to further test the Lansing zone.

Lebsack Oil Production Inc. well comparison sheet

DRILLING WELL

COMPARISON WELL

COMPARISON WELL

Formation	1725 KB				1730 KB				Structural Relationship		1728 KB		Structural Relationship	
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log		
Howard	2446	-721	2442	-717	2440	-710	-11	-7	2442	-714	-7			
Topeka	2547	-822	2543	-818	2537	-807	-15	-11	2540	-812	-10	-6		
Heebner	2833	-1108	2828	-1103	2820	-1090	-18	-13	2826	-1098	-10	-5		
Douglas	2859	-1134	2855	-1130	2846	-1116	-18	-14	2852	-1124	-10	-6		
Brown Lime	2964	-1239	2960	-1235	2955	-1225	-14	-10	2962	-1234	-5	-1		
Lansing	2979	-1254	2976	-1251	2976	-1246	-8	-5	2978	-1250	-4	-1		
"F" Zone	3062	-1337	3058	-1333	3052	-1322	-15	-11	3062	-1334	-3	1		
Total Depth	3250	-1525	3248	-1523	3362	-1632			3306	-1578				



TRIOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Lebsack Petroleum

34-20s-10w Rice

P.O. Box 354
Chase, Kansas 67524

North River #5

Job Ticket: 62065

DST#: 1

ATTN: Josh Austin

Test Start: 2014.12.20 @ 00:00:00

GENERAL INFORMATION:

Formation: Lansing "F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 60-gb30

Interval: 3058.00 ft (KB) To 3078.00 ft (KB) (TVD)

Total Depth: 3078.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1725.00 ft (KB)

1716.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8938

Inside

Press@RunDepth: 86.50 psig @ 3078.00 ft (KB)

Start Date: 2014.12.20

End Date: 2014.12.20

Start Time: 07:42:00

End Time: 13:04:00

Capacity: 8000.00 psig

Last Calib.: 2014.12.20

Time On Btm: 2014.12.20 @ 09:32:00

Time Off Btm: 2014.12.20 @ 11:34:00

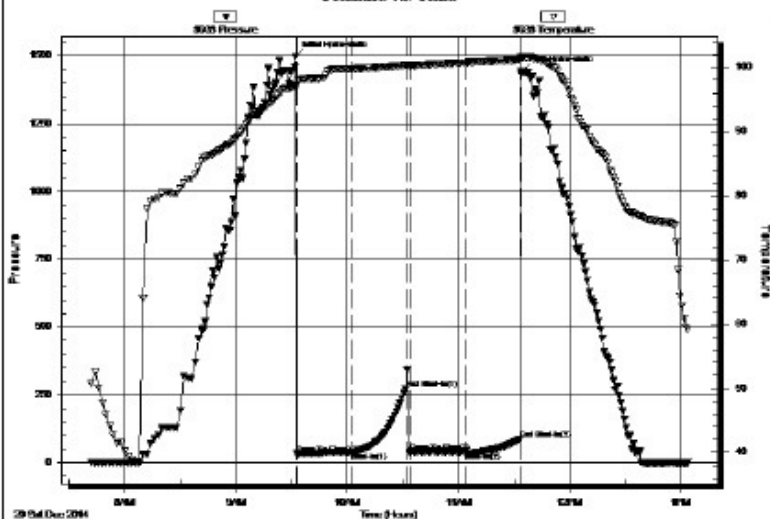
TEST COMMENT: 1st Opening 30 Minutes-Slid tool 10 Feet to bottom no blow flushed tool weak blow for 8 minutes and died

1st Shut-In 30 Minutes

2nd Opening 30 Minutes- No blow

2nd Shut-In 30 Minutes

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1497.82	97.18	Initial Hydro-static
1	33.33	97.16	Open To Flow (1)
30	40.14	99.74	Shut-In(1)
60	273.43	100.28	End Shut-In(1)
62	40.13	100.26	Open To Flow (2)
92	40.52	100.73	Shut-In(2)
121	86.50	101.17	End Shut-In(2)
122	1441.88	101.49	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
30.00	Drilling mud	0.15
0.00	Drilling Mud-Slid tool 10 feel to	0.00
0.00	bottom packed bull plug full of cuttings	0.00
0.00	bottom chart show s plugged top chart	0.00
0.00	Valid test	0.00

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lebsack Petroleum
P.O. Box 354
Chase, Kansas 67524
ATTN: Josh Austin

34-20s-10w Rice

North River #5

Job Ticket: 62066

DST#: 2

Test Start: 2014.12.21 @ 00:00:00

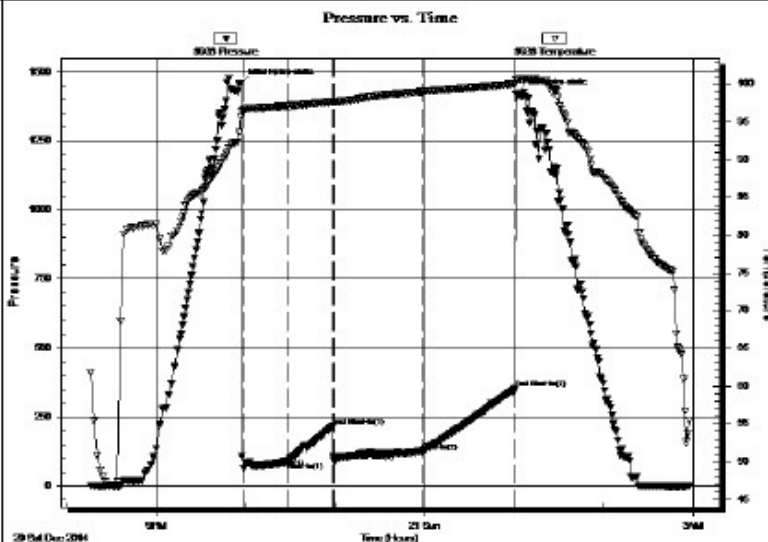
GENERAL INFORMATION:

Formation: lansing "F"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:00:00
Time Test Ended: 00:00:00
Interval: 3056.00 ft (KB) To 3088.00 ft (KB) (TVD)
Total Depth: 3088.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 60
Reference Elevations: 1725.00 ft (KB)
1716.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8938

Press@RunDepth: 350.54 psig @ ft (KB)
Start Date: 2014.12.20 End Date: 2014.12.21
Start Time: 20:16:00 End Time: 02:58:00
Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2014.12.20 @ 21:56:30
Time Off Btm: 2014.12.21 @ 01:01:00

TEST COMMENT: 1st Opening 30 Minutes Fair blow built to BOB in 17 minutes
1st Shut-In 30 Minutes-No blow back
2nd Opening 60 Minutes- Fair blow built to BOB in 16 Minutes
2nd Shut-In 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1456.31	95.73	Initial Hydro-static
2	63.16	96.64	Open To Flow (1)
32	87.22	97.13	Shut-In(1)
62	215.74	97.67	End Shut-In(1)
63	89.54	97.66	Open To Flow (2)
122	121.05	99.01	Shut-In(2)
184	350.54	100.05	End Shut-In(2)
185	1419.39	100.56	Final Hydro-static

Recovery




Length (ft)	Description	Volume (bbl)
60.00	Heavy oil and gas cut muddy water	0.30
0.00	22%Gas 40%Oil 20%Water 18%Mud	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

60.00	Muddy gassy frothy oil	0.30
0.00	28%gAS 12%oIL 60%Mud	0.00
60.00	slightly oil cut mud 2%Oil 98%Mud	0.30
600.00	Gas in the pipe	8.16

ROCK TYPES

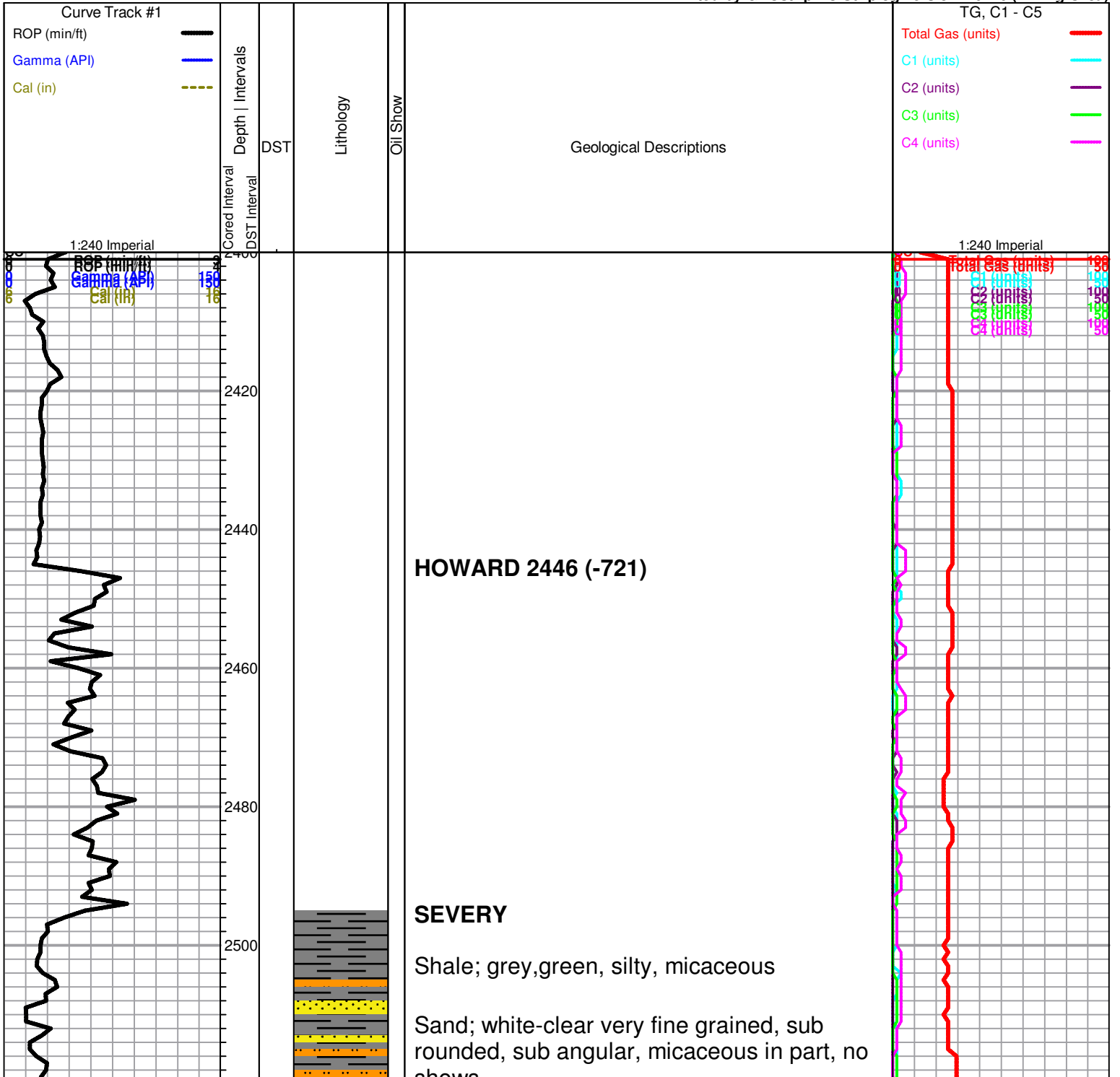
 Lmst fw7> shale, gry	 Carbon Sh	 Slst
	 Ss	

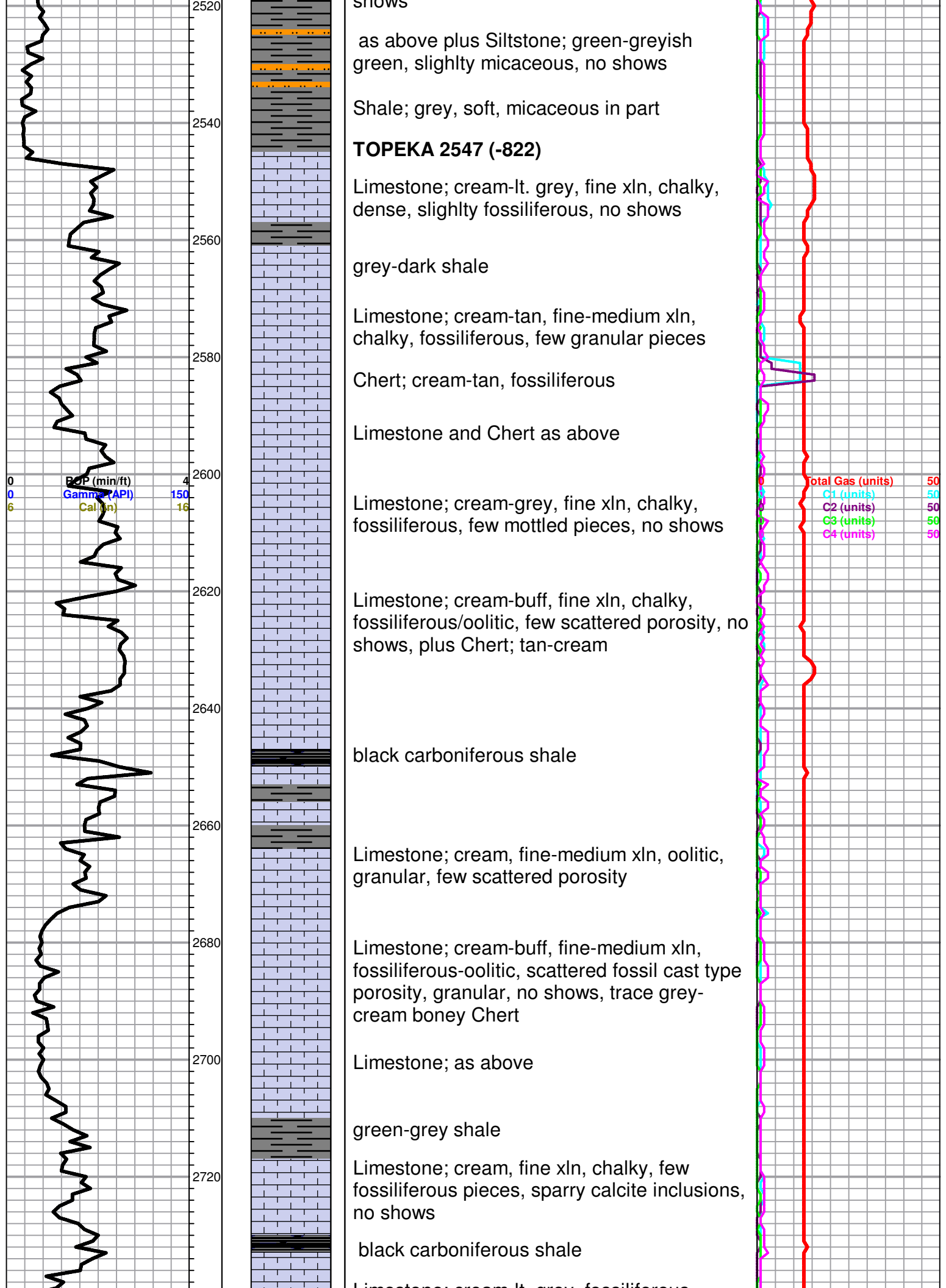
OTHER SYMBOLS

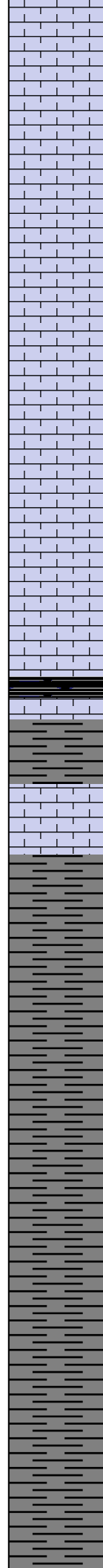
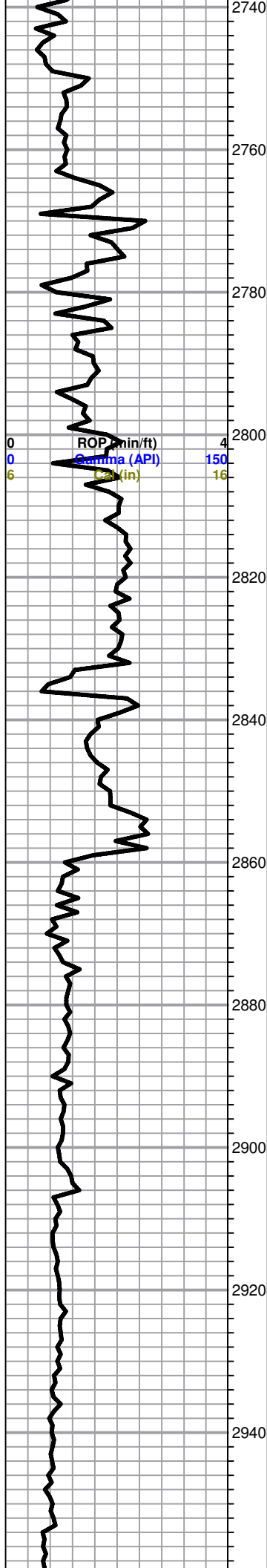
DST

	DST Int
	DST alt
	Core
	tail pipe

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Limestone; cream-lt. grey, fossiliferous-oolitic, few scattered oolitic type porosity, no shows

Limestone; as above

Shale; grey-green-maroon

Limestone; lt. grey-cream-buff, chalky, oolitic, fair oolitic-fossil cast type porosity, no shows

Limestone; cream-tan-buff, fine xln, dense, cherty, poor visible porosity, cherty in part, no shows

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

HEEBNER 2833 (-1108)

Black Carboniferous Shale

grey shale

Limestone; cream-grey, fine xln, chalky, dense, poor porosity, no shows

DOUGLAS 2859 (-1134)

Shale; dark-brown-grey-maroon, micaceous in part

Shale; as above few micaceous pieces, soft

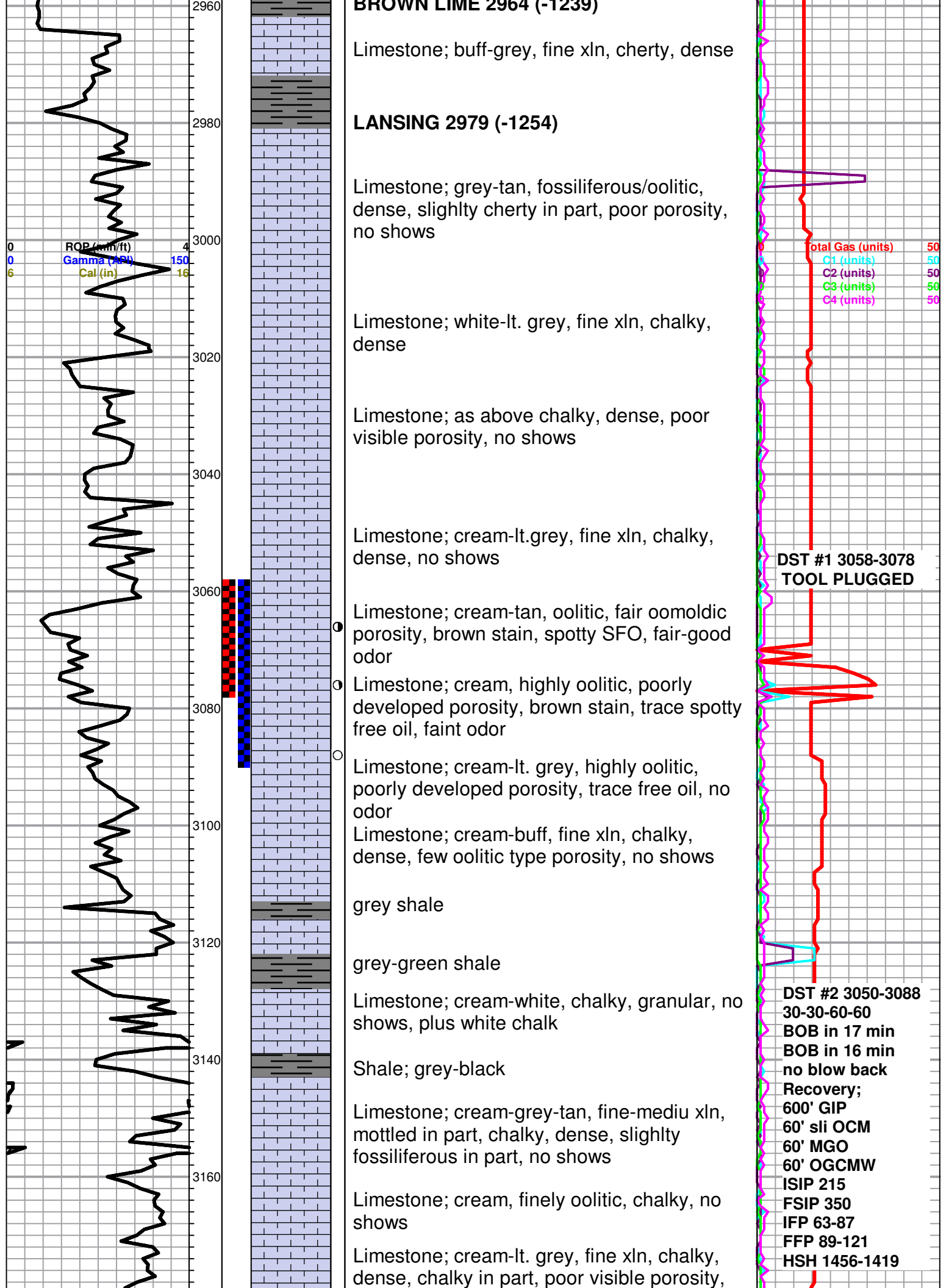
Sand; lt. grey-white, very fine grained, sub rounded, sub angular, friable, micaceous in part, no shows

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

Shale; as above, soft, silty in part

BROWN LIME 2864 (-1080)

Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50



Limestone; buff-grey, fine xln, cherty, dense

LANSING 2979 (-1254)

Limestone; grey-tan, fossiliferous/oolitic, dense, slightly cherty in part, poor porosity, no shows

Limestone; white-lt. grey, fine xln, chalky, dense

Limestone; as above chalky, dense, poor visible porosity, no shows

Limestone; cream-lt. grey, fine xln, chalky, dense, no shows

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

Limestone; cream, highly oolitic, poorly developed porosity, brown stain, trace spotty free oil, faint odor

Limestone; cream-lt. grey, highly oolitic, poorly developed porosity, trace free oil, no odor

Limestone; cream-buff, fine xln, chalky, dense, few oolitic type porosity, no shows

grey shale

grey-green shale

Limestone; cream-white, chalky, granular, no shows, plus white chalk

Shale; grey-black

Limestone; cream-grey-tan, fine-medium xln, mottled in part, chalky, dense, slightly fossiliferous in part, no shows

Limestone; cream, finely oolitic, chalky, no shows

Limestone; cream-lt. grey, fine xln, chalky, dense, chalky in part, poor visible porosity,

Total Gas (units) 50
 C1 (units) 50
 C2 (units) 50
 C3 (units) 50
 C4 (units) 50

**DST #1 3058-3078
 TOOL PLUGGED**

**DST #2 3050-3088
 30-30-60-60
 BOB in 17 min
 BOB in 16 min
 no blow back
 Recovery;
 60' GIP
 60' sli OCM
 60' MGO
 60' OGCMW
 ISIP 215
 FSIP 350
 IFP 63-87
 FFP 89-121
 HSH 1456-1419**

