OPERATOR

Company:	Falcon Exploration, Inc		
Address:	125 North Market Suite 1252 Wichita, KS 67202		
Contact Geologist:	Brian Fisher		
Contact Phone Nbr:	316-262-1378		
Well Name:	Carrie Nichols #1-5 (SW)		
Location:	Sec. 5 - T28S - R29W		
API:	15-069-20494-0000		
Pool:		Field:	Wildcat
State:	Kansas	Country:	USA

Scale 1:240 Imperial

Well Name:	Carrie Nichols #1-5 (SW)		
Surface Location:	Sec. 5 - T28S - R29W		
Bottom Location:			
API:	15-069-20494-0000		
License Number:	5316		
Spud Date:	9/21/2015	Time:	8:45 PM
Region:	Gray County		
Drilling Completed:	10/5/2015	Time:	12:05 PM
Surface Coordinates:	900' FSL & 1870' FWL		
Bottom Hole Coordinates:			
Ground Elevation:	2782.00ft		
K.B. Elevation:	2795.00ft		
Logged Interval:	3400.00ft	To:	5425.00ft
Total Depth:	5425.00ft		
Formation:	Mississippian		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	
Latitude:	
N/S Co-ord:	900' FSL
E/W Co-ord:	1870' FWL

LOGGED BY

Keith Reavis
Consulting Geologist

Company:	Keith Reavis, Inc.		
Address:	3420 22nd Street Great Bend, KS 67530		
Phone Nbr:	620-617-4091		
Logged By:	KLG #136	Name:	Keith Reavis

CONTRACTOR

Contractor:	Sterling Drilling Company		
Rig #:	5		
Rig Type:	mud rotary		
Spud Date:	9/21/2015	Time:	8:45 PM
TD Date:	10/5/2015	Time:	12:05 PM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	2795.00ft	Ground Elevation:	2782.00ft
K.B. to Ground:	13.00ft		

NOTES

Due to positive results of DST's 2, 3, 5 & 6 as well as corresponding electrical log evaluation, it was determined to set and cement 5 1/2" production casing and further evaluate the Mississippian St. Louis, Cherokee Limestone and Marmaton Limestone through perforations and stimulation.

A Tooke Daq gas detection system owned and operated by Sterling Drilling Company was employed on the drilling of this well. Drill time and gas data from said system was imported into this mudlog.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,

Keith Reavis

Falcon Exploration

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
09/25/2015		Geologist Keith Reavis on location @ 0825 hrs, 6164 ft, drilling ahead Cottonwood, Neva, Foraker, Stotler, gas kick in Stotler, gas kick warrants test,
09/26/2015	3565	short trip, ctch, TOH for test, conduct and complete DST #1, successful test, TIH w/bit, resume drilling, Tarkio
09/27/2015	3935	drilling ahead, Tarkio, Topeka, Lecompton, Heebner, Douglas, Lansing
09/28/2015	4363	drilling ahead, Lansing
09/29/2015	4714	drilling ahead, Lansing, Marmaton, show in Marmaton warrants test, short trip, TOH, back in w/tools, conduct DST #2
09/30/2015	4760	complete DST #2, successful test, TIH w/bit, ctch and re-condition mud, drilling ahead, Marmaton, Pawnee, Cherokee
10/01/2015	5005	drilling ahead, Cherokee, shows in lower Cherokee warrant test, TOH w/bit, conduct and complete DST #3, successful test
10/02/2015	5063	TIH w/bit, ctch, re-condition mud, resume drilling, Morrow, Mississippian show in St. Gen. Warrants test, conduct and complete DST #4, successful test, TIH w/bit, ctch,
10/03/2015	5163	resume drilling, show in St. Louis A warrants test, TOH, conduct DST #5, complete DST #5, successful test, slip line, TIH w/bit, resume drilling
10/04/2015	5193	Show and gas kick in St. Louis B porosity warrants test, TOH w/bit, in w/tools, conduct DST #6, successful test, TIH w/bit, resume drilling
10/05/2015	5344	rathole ahead to TD, TD @ 1205 hrs, ctch, TOH, conduct logging operations off loc 2000 hrs

Falcon Exploration, Inc

well comparison sheet

	DRILLING WELL Carrie Nichols #1-5 900' FSL & 1870' FWL Sec 5-T28S-R29W 2795 KB				COMPARISON WELL Yost #1-6 (NW) 1537' FNL & 660' FWL Sec 6-T28S-R29W 2782 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Chase	2658	137	2653	142	2626	156	-19	-14
Winfield	2738	57	2733	62	2708	74	-17	-12
Towanda	2790	5	2778	17	2754	28	-23	-11
Fort Riley	2838	-43	2832	-37	2806	-24	-19	-13
Cottonwood	3100	-305	3097	-302	3063	-281	-24	-21
Neva	3164	-369	3159	-364	3127	-345	-24	-19
Foraker	3266	-471	3272	-477	3236	-454	-17	-23
Stotler	3526	-731	3522	-727	3476	-694	-37	-33
Tarkio	3599	-804	3600	-805	3548	-766	-38	-39
Topeka	3804	-1009	3803	-1008	3750	-968	-41	-40
Heebner	4154	-1359	4149	-1354	4120	-1338	-21	-16
Toronto	4173	-1378	4171	-1376	4137	-1355	-23	-21
Douglas	4193	-1398	4189	-1394	4160	-1378	-20	-16
Lansing	4249	-1454	4244	-1449	4213	-1431	-23	-18
Stark	4548	-1753	4544	-1749	4541	-1759	6	10
Marmaton	4724	-1929	4727	-1932	4702	-1920	-9	-12
Pawnee	4820	-2025	4820	-2025	4794	-2012	-13	-13

Cherokee	4860	-2065	4857	-2062	4833	-2051	-14	-11
Morrow Shale	5033	-2238	5028	-2233	5010	-2228	-10	-5
Miss St. Gen	5050	-2255	5043	-2248	5040	-2258	3	10
St. Louis A	5146	-2351	5146	-2351	5137	-2355	4	4
St. Louis B	5180	-2385	5177	-2382	5178	-2396	11	14
Total Depth	5425	-2630	5426	-2631	5384	-2602	-28	-29

DST #1

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CARRIENICHOLS1-5SWDST1

TIME ON: 04:21
TIME OFF: 13:36

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)
Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.
Elevation 2795 KB Formation STOTLER Effective Pay Ft. Ticket No. T498
Date 9-26-15 Sec. 5 Twp. 28 S Range 29 W County GRAY State KANSAS
Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3496 ft. to 3565 ft. Total Depth 3565 ft.
Packer Depth 3491 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Packer Depth 3496 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3477 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3562 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 60 ft. I.D. 2 1/4 in.
Weight 8.55 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in
Chlorides 400 P.P.M. Drill Pipe Length 3403 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO Anchor Length 37 ft. Size 4 1/2-FH in
32' DP IN ANCHOR
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: GOOD 1 1/2 INCH BLOW, BUILDING, REACHING BOB 2 1/2 MIN. (NO BB)
2nd Open: GOOD 1 1/2 INCH BLOW, BUILDING, REACHING BOB 13 1/2 MIN. (NO BB)

Recovered 50 ft. of WCM, 16% WATER, 84% MUD
Recovered 130 ft. of HWCM, 45% WATER, 55% MUD
Recovered 60 ft. of MCW, 79% WATER, 21% MUD
Recovered 240 ft. of TOTAL FLUID
Recovered ft. of CHLORIDES: 63,000 ppm
Recovered ft. of PH: 6.5
Remarks: RW: .13 @ 78 deg.

TOOL SAMPLE: TRACE OIL, 75% WATER, 25% MUD

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 6:43 AM A.M. P.M. Time Started Off Bottom 12:03 PM A.M. P.M. Maximum Temperature 106 deg.

Initial Hydrostatic Pressure (A) 1594 P.S.I.
Initial Flow Period Minutes 5 (B) 35 P.S.I. to (C) 48 P.S.I.
Initial Closed In Period Minutes 90 (D) 899 P.S.I.
Final Flow Period Minutes 90 (E) 51 P.S.I. to (F) 137 P.S.I.
Final Closed In Period Minutes 135 (G) 812 P.S.I.
Final Hydrostatic Pressure (H) 1581 P.S.I.

DST #2

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CARRIENICHOLS1-5SWDST2

TIME ON: 16:43 9-29-15
TIME OFF: 03:47 9-30-15

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)
Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.
Elevation 2795 KB Formation MARMATON Effective Pay Ft. Ticket No. T499

Date 9-29-15 Sec. 5 Twp. 28 S Range 29 W County GRAY State KANSAS

Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4740 ft. to 4760 ft. Total Depth 4760 ft.

Packer Depth 4735 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Packer Depth 4740 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4721 ft. Recorder Number 5504 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4757 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 60 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,660 P.P.M. Drill Pipe Length 4647 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 2 1/2 MIN. (NO BB)

2nd Open: STRONG 7 INCH BLOW, BUILDING, REACHING BOB 30 SEC. (9" BB)

Recovered 4300 ft. of GAS IN PIPE

Recovered 30 ft. of GO, 4% GAS, 96% OIL, GRAVITY: 32

Recovered 190 ft. of G,SWCO, 27% GAS, 72% OIL, 1% WATER

Recovered 130 ft. of G,W&MCO, 20% GAS, 40% OIL, 21% WATER, 19% MUD

Recovered 60 ft. of SO&MCW, 4% OIL, 93% WATER, 3% MUD

Recovered 410 ft. of TOTAL FLUID CHLORIDES: 95,000 ppm

Remarks: PH: 6.0

RW: .15 @ 66 deg.

TOOL SAMPLE: 89% OIL, 10% WATER, 1% MUD

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 7:06 PM A.M. P.M. Time Started Off Bottom 1:11 AM A.M. P.M. Maximum Temperature 125 deg.

Initial Hydrostatic Pressure (A) 2306 P.S.I.

Initial Flow Period Minutes 5 (B) 38 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period Minutes 90 (D) 1436 P.S.I.

Final Flow Period Minutes 90 (E) 55 P.S.I. to (F) 185 P.S.I.

Final Closed In Period Minutes 180 (G) 1380 P.S.I.

Final Hydrostatic Pressure (H) 2296 P.S.I.

DST #3

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 14:24

TIME OFF: 23:59

DRILL-STEM TEST TICKET
FILE: CARRIENICHOLS1-5SWDST3

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)

Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.

Elevation 2795 KB Formation CHEROKEE Effective Pay Ft. Ticket No. T500

Date 10-1-15 Sec. 5 Twp. 28 S Range 29 W County GRAY State KANSAS

Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4957 ft. to 5031 ft. Total Depth 5031 ft.

Packer Depth 4952 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Packer Depth 4957 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4938 ft. Recorder Number 5504 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 5028 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 60 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 4,300 P.P.M. Drill Pipe Length 4864 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 42 ft. Size 4 1/2-FH in

32' DP IN ANCHOR

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Main Hole Size ____ Tool Joint Size ____ in. Surface Choke Size ____ in. Bottom Choke Size ____ in.

Blow: 1st Open: STRONG 5 INCH BLOW, BUILDING, REACHING BOB 25 SEC. (NO BB)

2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (7 1/2" BB)

Recovered 4680 ft. of GAS IN PIPE

Recovered 75 ft. of GO, 8% GAS, 92% OIL, GRAVITY: 34

Recovered 250 ft. of G,MCO, 13% GAS, 74% OIL, 13% MUD

Recovered 345 ft. of TOTAL FLUID

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

TOOL SAMPLE: 4% GAS, 67% OIL, 29% MUD

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 4:41 PM A.M. P.M. Time Started Off Bottom 9:16 PM A.M. P.M. Maximum Temperature 124 deg.

Initial Hydrostatic Pressure ..... (A) 2358 P.S.I.

Initial Flow Period ..... Minutes 5 (B) 64 P.S.I. to (C) 66 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1279 P.S.I.

Final Flow Period ..... Minutes 60 (E) 75 P.S.I. to (F) 147 P.S.I.

Final Closed In Period ..... Minutes 120 (G) 1116 P.S.I.

Final Hydrostatic Pressure ..... (H) 2357 P.S.I.

DST #4

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 15:21
TIME OFF: 21:45

DRILL-STEM TEST TICKET
FILE: CARRIENICHOLS1-5SWDST4

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)

Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.

Elevation 2795 KB Formation MISS/ST. GEN Effective Pay ____ Ft. Ticket No. T501

Date 10-2-15 Sec. 5 Twp. 28 S Range 29 W County GRAY State KANSAS

Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 5084 ft. to 5124 ft. Total Depth 5124 ft.

Packer Depth 5079 ft. Size 6 3/4 in. Packer depth ____ ft. Size 6 3/4 in.

Packer Depth 5084 ft. Size 6 3/4 in. Packer depth ____ ft. Size 6 3/4 in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 5065 ft. Recorder Number 5504 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 5121 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth ____ ft. Recorder Number ____ Cap. ____ P.S.I.

Mud Type CHEMICAL Viscosity 63 Drill Collar Length 60 ft. I.D. 2 1/4 in.

Weight 8.9 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 3,300 P.P.M. Drill Pipe Length 4991 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 40 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: VERY WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO BB)

2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 2 ft. of MUD

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: WE FLUSHED TOOL 10 MIN. INTO FINAL FLOW PERIOD AND JUST GOT THE SURGE BLOW.

TOOL SAMPLE: 100% MUD

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 5:27 PM A.M. P.M. Time Started Off Bottom 7:32 PM A.M. P.M. Maximum Temperature 122 deg.

Initial Hydrostatic Pressure ..... (A) 2391 P.S.I.

Initial Flow Period ..... Minutes 5 (B) 23 P.S.I. to (C) 23 P.S.I.

Initial Closed In Period ..... Minutes 90 (D) 38 P.S.I.

Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.

Final Flow Period..... Minutes 20 (E) 23 P.S.I. to (F) 26 P.S.I.

Final Closed In Period..... Minutes 10 (G) 27 P.S.I.

Final Hydrostatic Pressure..... (H) 2387 P.S.I.

DST #5

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 07:34
TIME OFF: 17:57

DRILL-STEM TEST TICKET
FILE: CARRIENICHOLS1-5SWDST5

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)

Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.

Elevation 2795 KB Formation ST. LOUIS "A" Effective Pay _____ Ft. Ticket No. T502

Date 10-3-15 Sec. 5 Twp. 28 S Range 29 W County GRAY State KANSAS

Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 5 Interval Tested from 5141 ft. to 5163 ft. Total Depth 5163 ft.

Packer Depth 5136 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 5141 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5122 ft. Recorder Number 5504 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 5160 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 60 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,900 P.P.M. Drill Pipe Length 5048 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 22 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 5 INCHES. (NO BB)

2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (NO BB)

Recovered 1405 ft. of GAS IN PIPE

Recovered 5 ft. of MC FR. O, 75% FROTHY OIL, 25% MUD

Recovered 60 ft. of G, SMCO, 8% GAS, 83% OIL, 9% MUD

Recovered 65 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: WE BLED LINE OFF 10 MIN. INTO FINAL FLOW PERIOD AND IT TOOK 9 1/2 MIN. TO GET BACK TO BOTTOM.

TOOL SAMPLE: GAS BLEW OUT

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 10:07 AM A.M. P.M. Time Started Off Bottom 3:12 PM A.M. P.M. Maximum Temperature 123 deg.

Initial Hydrostatic Pressure..... (A) 2388 P.S.I.

Initial Flow Period..... Minutes 5 (B) 26 P.S.I. to (C) 33 P.S.I.

Initial Closed In Period..... Minutes 90 (D) 1451 P.S.I.

Final Flow Period..... Minutes 60 (E) 30 P.S.I. to (F) 50 P.S.I.

Final Closed In Period..... Minutes 150 (G) 1432 P.S.I.

Final Hydrostatic Pressure..... (H) 2389 P.S.I.

DST #6

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 04:06
TIME OFF: N/A

DRILL-STEM TEST TICKET
FILE: CARRIENICHOLS1-5SWDST6

Company FALCON EXPLORATION, INC. Lease & Well No. CARRIE NICHOLS #1-5 (SW)

Contractor STERLING DRILLING COMPANY RIG #5 Charge to FALCON EXPLORATION, INC.

Elevation 2795 KB Formation ST. LOUIS "B" Effective Pay _____ Ft. Ticket No. T503

Date 10-4-15 Sec. 5 Twp. 28 S Range 29 W County GRAY State KANSAS

Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 6 Interval Tested from 5175 ft. to 5193 ft. Total Depth 5193 ft.

Packer Depth 5170 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Packer Depth 5175 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 5156 ft. Recorder Number 5504 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 5190 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 60 ft. I.D. 2 1/4 in.

Weight 9.0 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,400 P.P.M. Drill Pipe Length 5082 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 18 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1 INCH. (NO BB)

2nd Open: WEAK 1 INCH BLOW, BUILDING, REACHING BOB 56 1/2 MIN. (NO BB)

Recovered 365 ft. of GAS IN PIPE

Recovered 15 ft. of CLEAN OIL, 100% OIL, GRAVITY: 23

Recovered 5 ft. of SOCM, 8% OIL, 92% MUD

Recovered 60 ft. of G,HO&WCM, 8% GAS, 24% OIL, 28% WATER, 40% MUD

Recovered 80 ft. of TOTAL FLUID CHLORIDES: 40,000 ppm

Recovered ft. of PH: 7.0

Remarks: RW: .17 @ 67 deg.

I FORGOT TO PUT ELEC. IN TOOL FOR TEST.

TOOL SAMPLE: 3% OIL, 94% WATER, 3% MUD

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 6:38 AM A.M. P.M. Time Started Off Bottom 12:43 AM A.M. P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 2538 P.S.I.

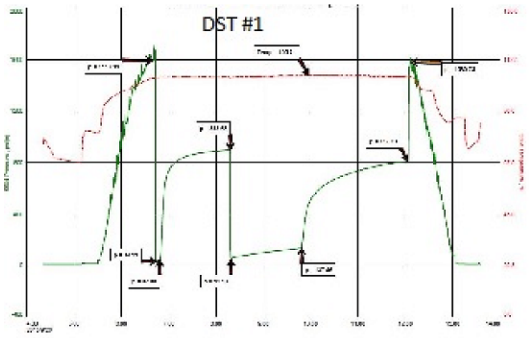
Initial Flow Period Minutes 5 (B) 8 P.S.I. to (C) 11 P.S.I.

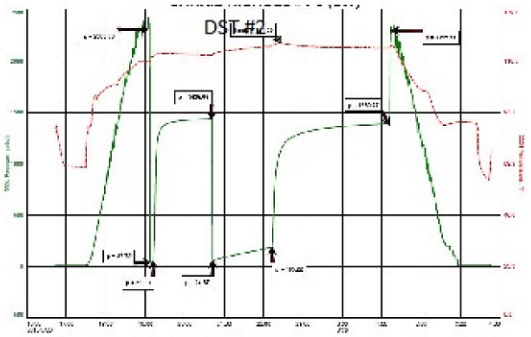
Initial Closed In Period Minutes 90 (D) 1283 P.S.I.

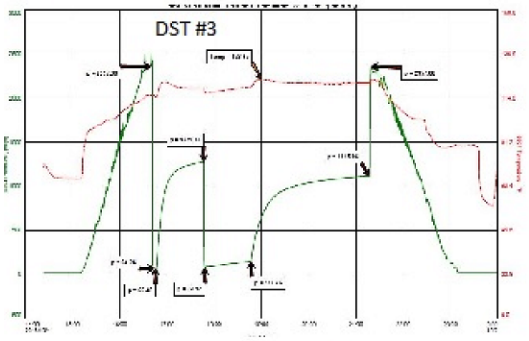
Final Flow Period Minutes 90 (E) 13 P.S.I. to (F) 14 P.S.I.

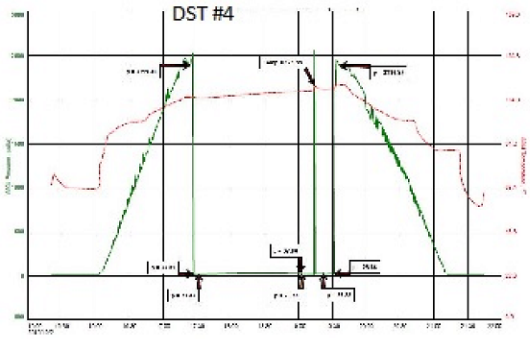
Final Closed In Period Minutes 180 (G) 1271 P.S.I.

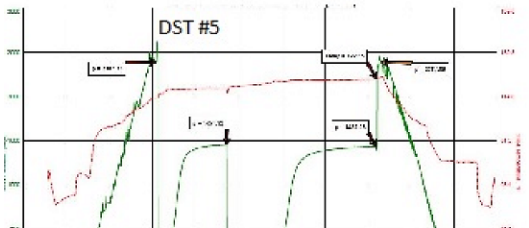
Final Hydrostatic Pressure (H) 2538 P.S.I.

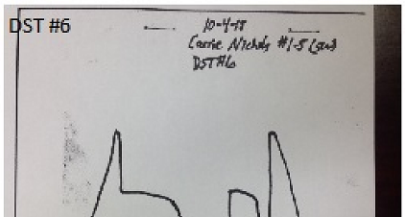


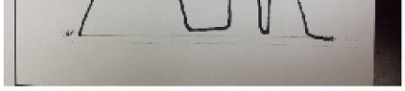












ROCK TYPES

Cht	sdy lmst	shale, grn	shale, red
Dolprim	Lmst fw<7	shale, gry	Ss
Dolsec	Lmst fw7>	Carbon Sh	Sltst

ACCESSORIES

MINERAL
- Argillaceous
- Chert, dark
- Dolomitic
- Glauconite
- Mineral Crystals
- Chert White

FOSSIL
- Bioclastic or Fragmenta
- Cephalopod
- Coral
- F Fossils < 20%
- Oolite
- Pellets
- Oomoldic

STRINGER
- Dolomite
- Limestone
- Shale
- green shale
- carb shale

TEXTURE
- C Chalky
- e Earthy
- L Lithogr

OTHER SYMBOLS

Oil Show
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- Gas

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

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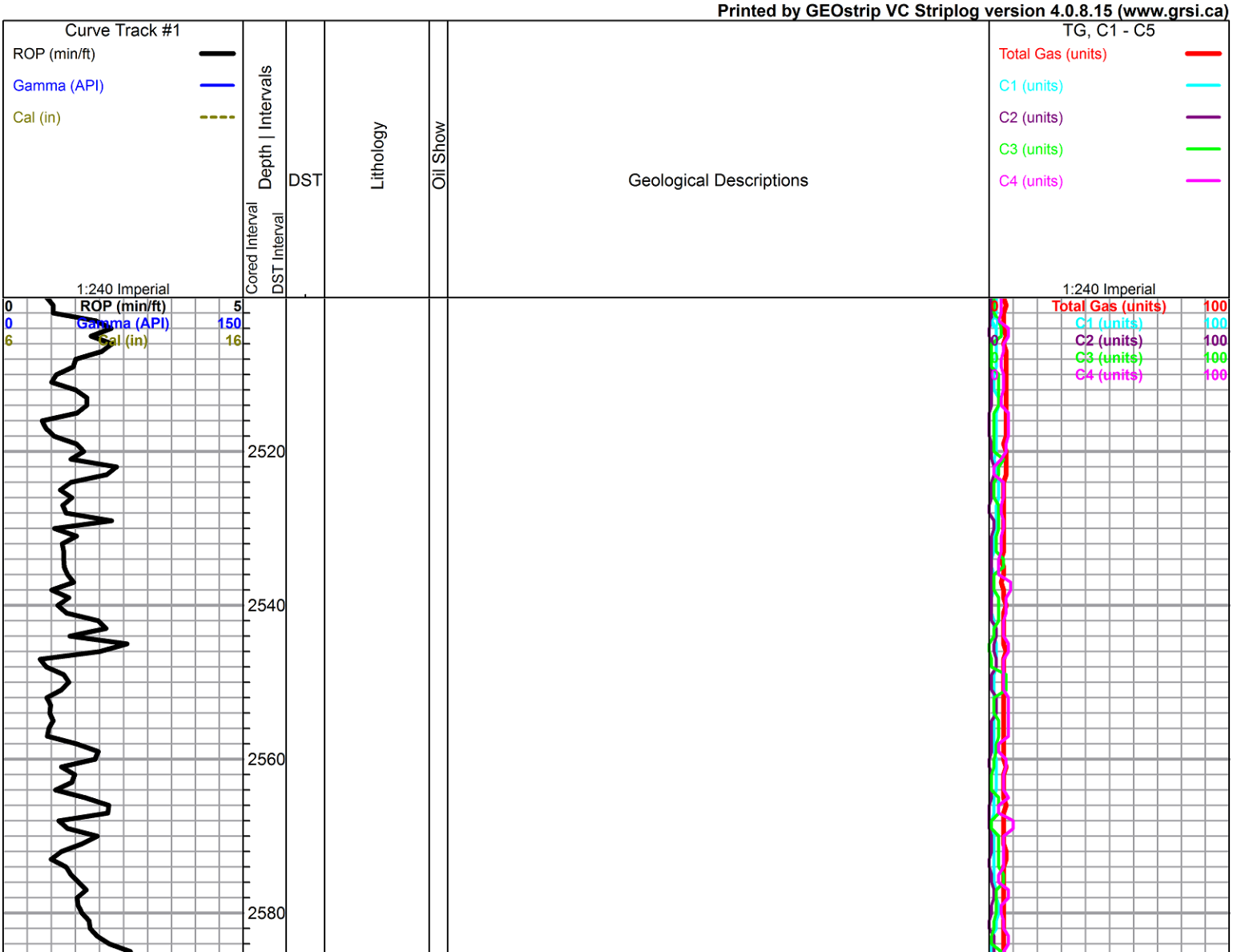
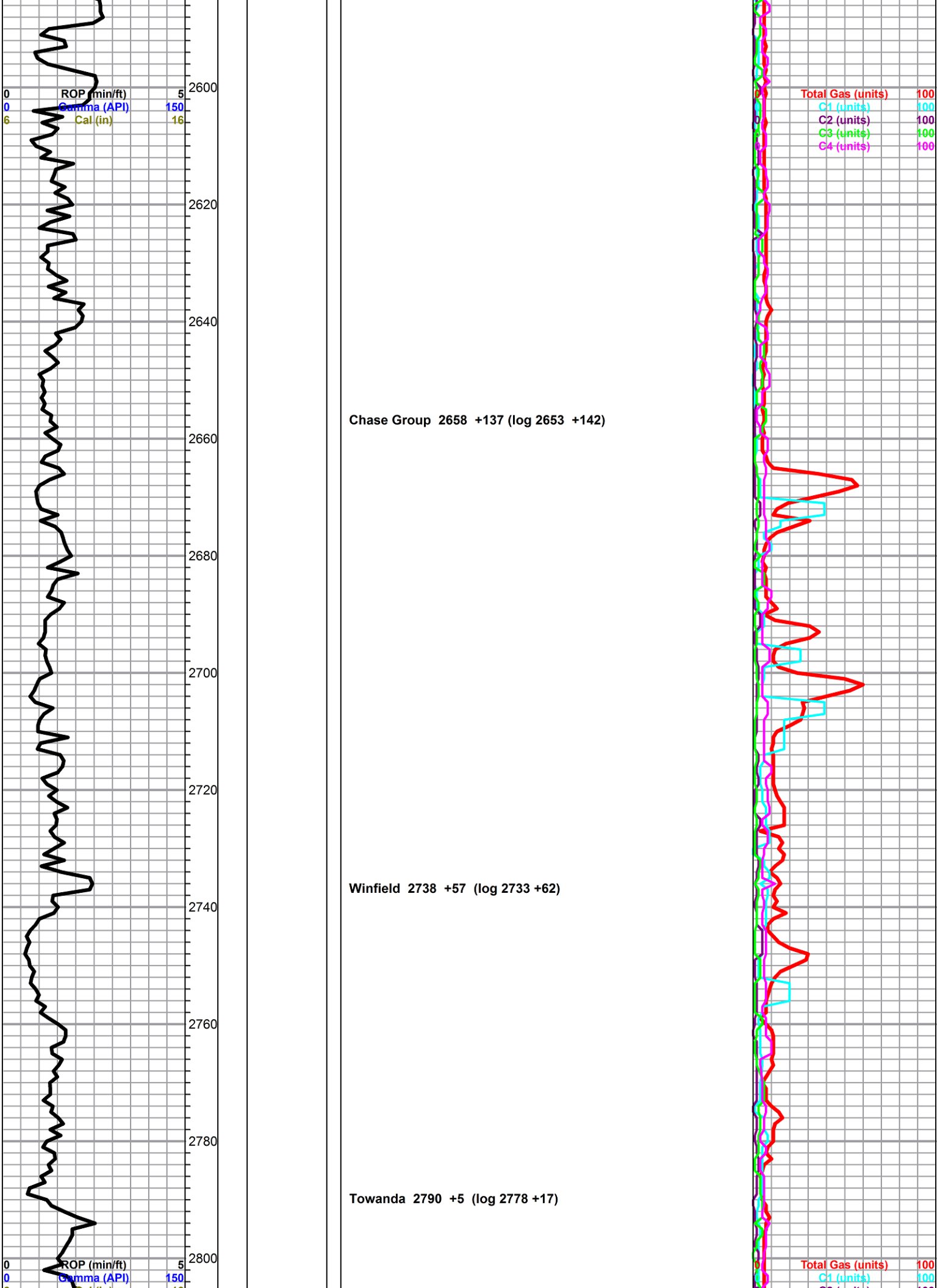
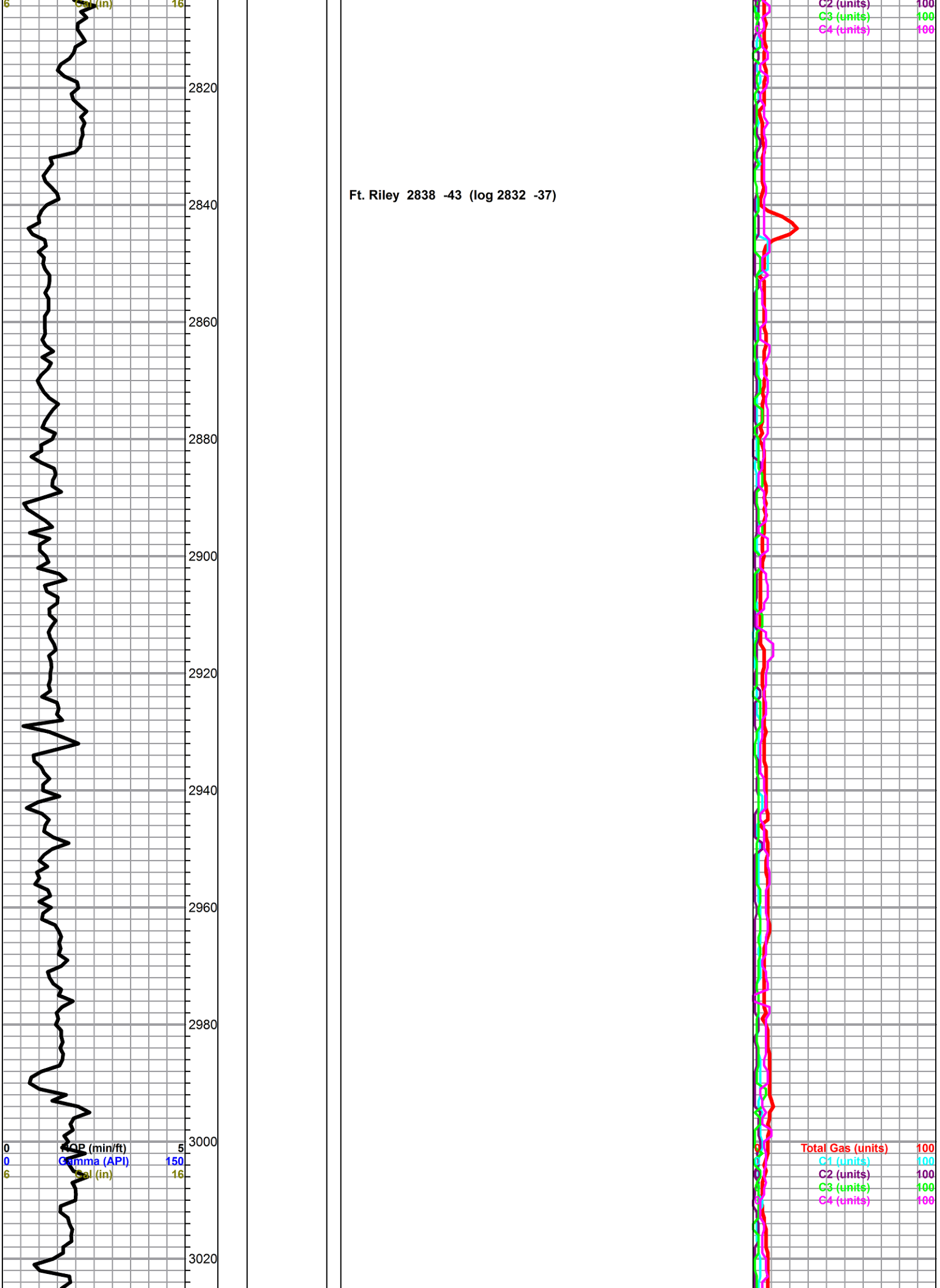
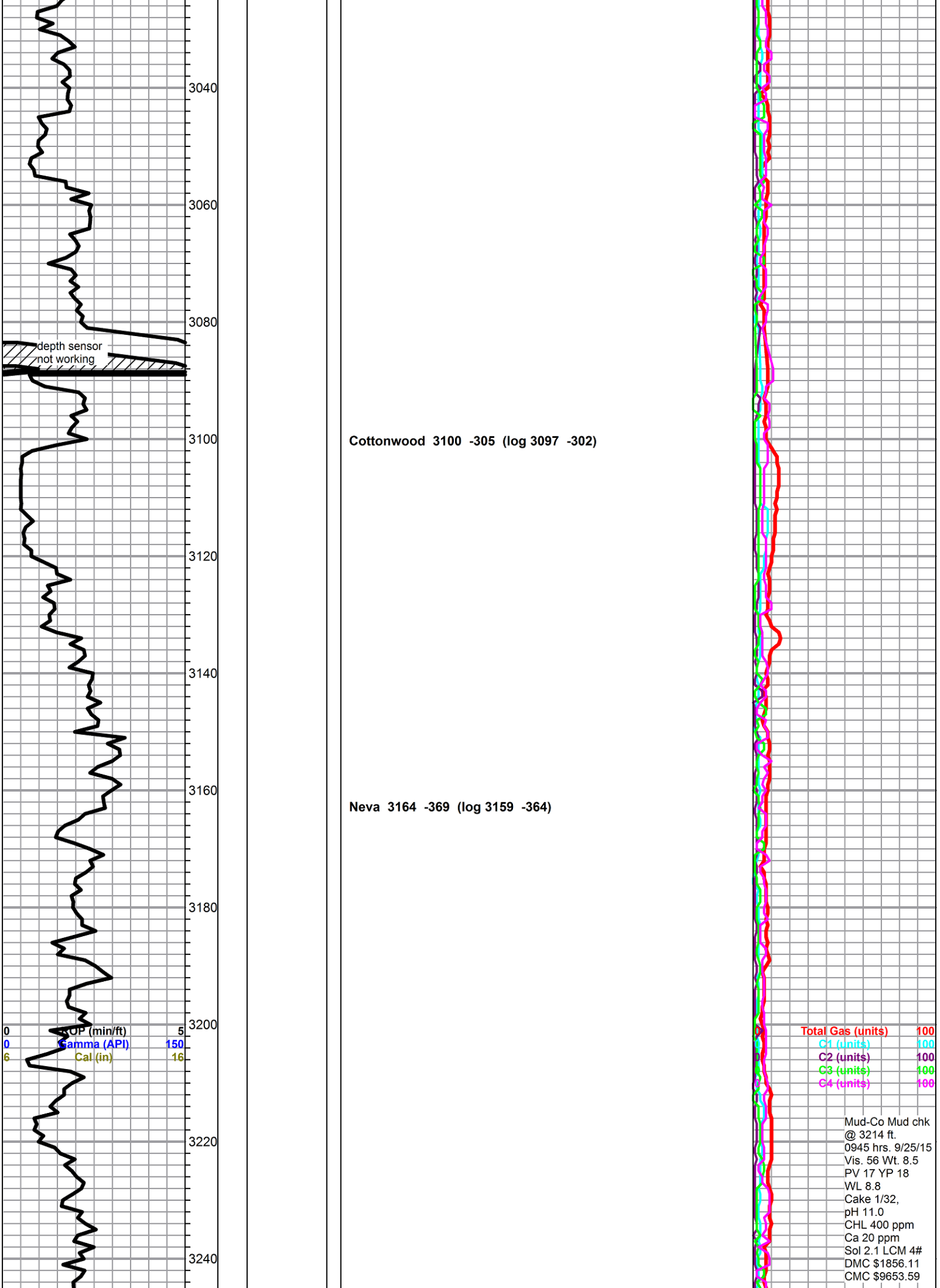
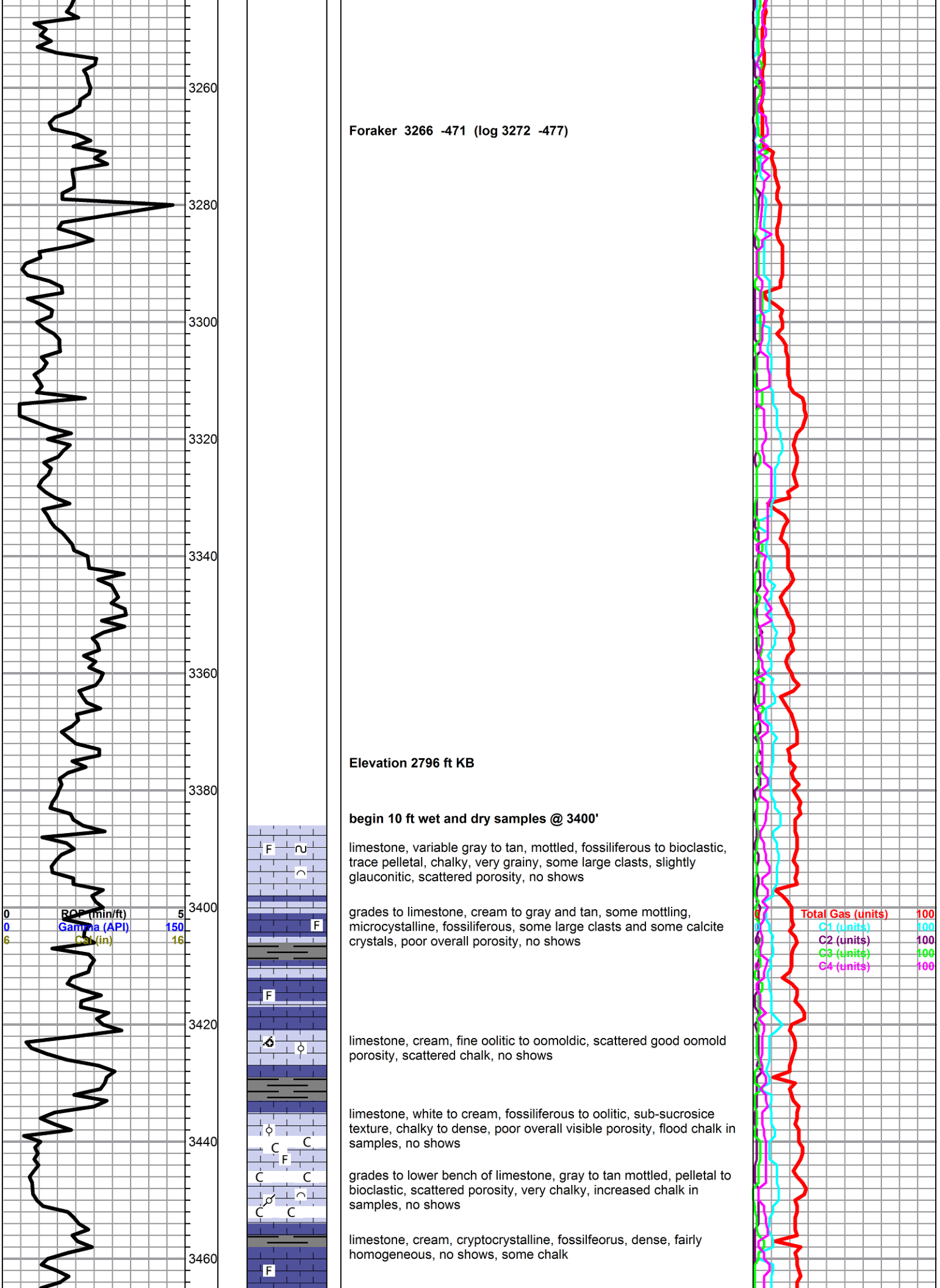



0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
2600
2620
2640
2660
2680
2700
2720
2740
2760
2780
2800
Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100
Chase Group 2658 +137 (log 2653 +142)
Winfield 2738 +57 (log 2733 +62)
Towanda 2790 +5 (log 2778 +17)
0 ROP (min/ft) 5
0 Gamma (API) 150
Total Gas (units) 100
C1 (units) 100


6 Cal (in) 16
2820
2840
2860
2880
2900
2920
2940
2960
2980
3000
3020
Ft. Riley 2838 -43 (log 2832 -37)
C2 (units) 100
C3 (units) 100
C4 (units) 100
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
C1 (units) 100
0 C2 (units) 100
C3 (units) 100
C4 (units) 100


3040
3060
3080
depth sensor
not working
3100
Cottonwood 3100 -305 (log 3097 -302)
3120
3140
3160
Neva 3164 -369 (log 3159 -364)
3180
3200
3220
3240
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100
Mud-Co Mud chk
@ 3214 ft.
0945 hrs. 9/25/15
Vis. 56 Wt. 8.5
PV 17 YP 18
WL 8.8
Cake 1/32,
pH 11.0
CHL 400 ppm
Ca 20 ppm
Sol 2.1 LCM 4#
DMC $1856.11
CMC $9653.59



Foraker 3266 -471 (log 3272 -477)

Elevation 2796 ft KB

begin 10 ft wet and dry samples @ 3400'

limestone, variable gray to tan, mottled, fossiliferous to bioclastic, trace pelletal, chalky, very grainy, some large clasts, slightly glauconitic, scattered porosity, no shows

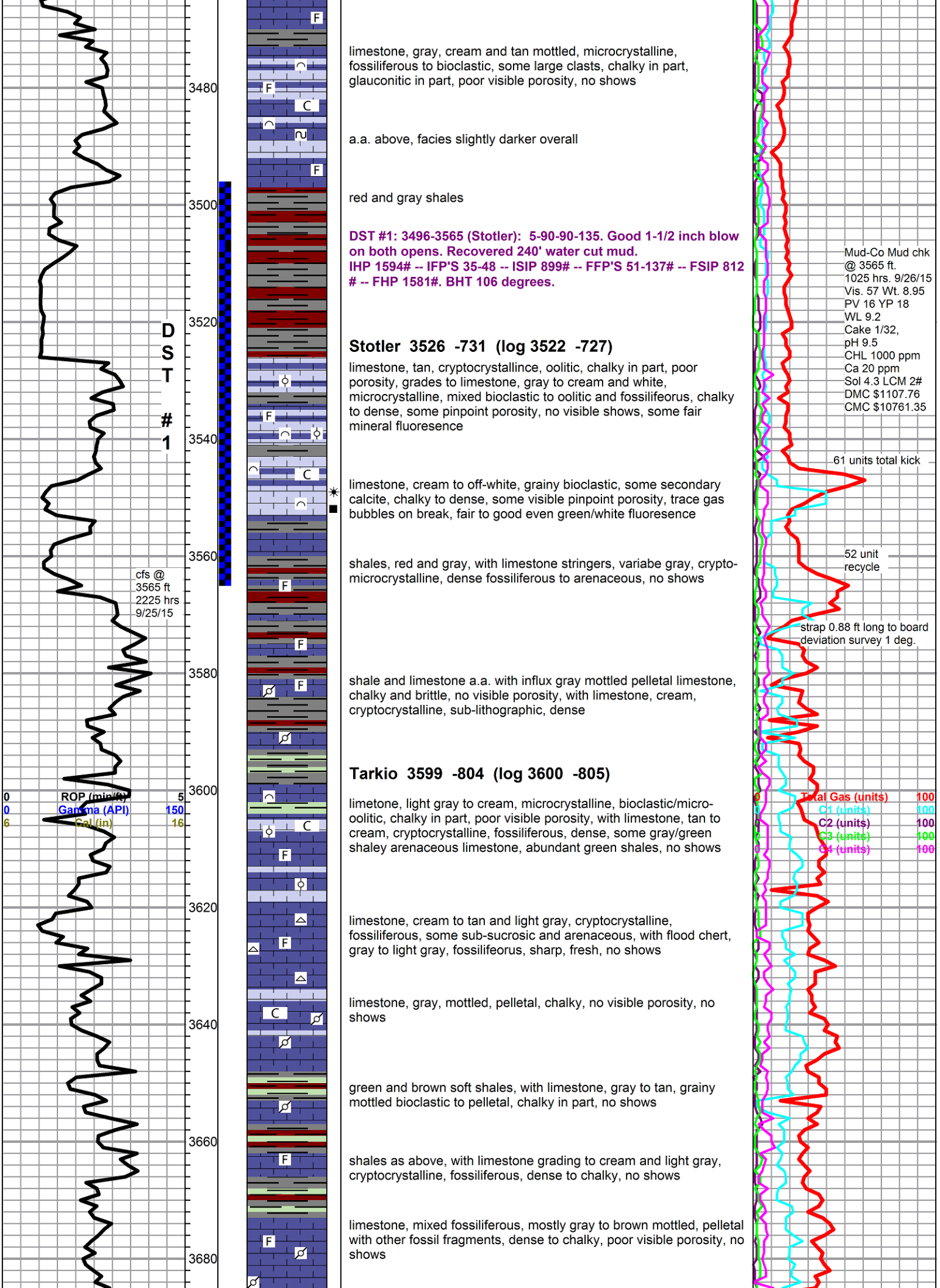
grades to limestone, cream to gray and tan, some mottling, microcrystalline, fossiliferous, some large clasts and some calcite crystals, poor overall porosity, no shows

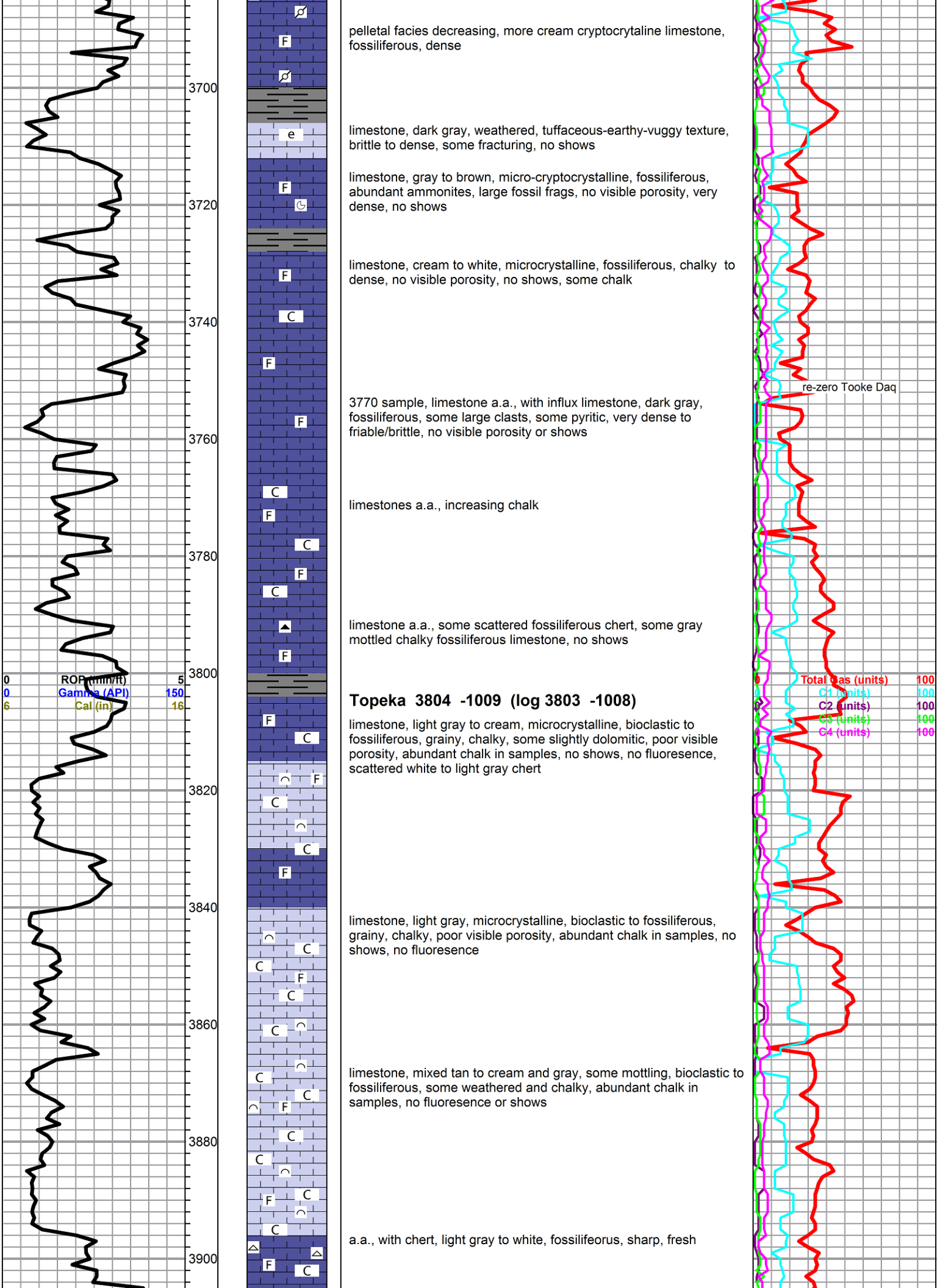
limestone, cream, fine oolitic to oomoldic, scattered good oomold porosity, scattered chalk, no shows

limestone, white to cream, fossiliferous to oolitic, sub-sucrosice texture, chalky to dense, poor overall visible porosity, flood chalk in samples, no shows

grades to lower bench of limestone, gray to tan mottled, pelletal to bioclastic, scattered porosity, very chalky, increased chalk in samples, no shows

limestone, cream, cryptocrystalline, fossilfeorus, dense, fairly homogeneous, no shows, some chalk


3480
3500
3520
3540
3560
3580
3600
3620
3640
3660
3680
DST #1
cfs @ 3565 ft 2225 hrs 9/25/15
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
limestone, gray, cream and tan mottled, microcrystalline, fossiliferous to bioclastic, some large clasts, chalky in part, glauconitic in part, poor visible porosity, no shows
a.a. above, facies slightly darker overall
red and gray shales
DST #1: 3496-3565 (Stotler): 5-90-90-135. Good 1-1/2 inch blow on both opens. Recovered 240' water cut mud.
IHP 1594# -- IFP'S 35-48 -- ISIP 899# -- FFP'S 51-137# -- FSIP 812 # -- FHP 1581#. BHT 106 degrees.
Stotler 3526 -731 (log 3522 -727)
limestone, tan, cryptocrystallince, oolitic, chalky in part, poor porosity, grades to limestone, gray to cream and white, microcrystalline, mixed bioclastic to oolitic and fossilifeorus, chalky to dense, some pinpoint porosity, no visible shows, some fair mineral fluoresence
limestone, cream to off-white, grainy bioclastic, some secondary calcite, chalky to dense, some visible pinpoint porosity, trace gas bubbles on break, fair to good even green/white fluoresence
shales, red and gray, with limestone stringers, variabe gray, crypto-microcrystalline, dense fossiliferous to arenaceous, no shows
shale and limestone a.a. with influx gray mottled pelletal limestone, chalky and brittle, no visible porosity, with limestone, cream, cryptocrystalline, sub-lithographic, dense
Tarkio 3599 -804 (log 3600 -805)
limetone, light gray to cream, microcrystalline, bioclastic/micro-oolitic, chalky in part, poor visible porosity, with limestone, tan to cream, cryptocrystalline, fossiliferous, dense, some gray/green shaley arenaceous limestone, abundant green shales, no shows
limestone, cream to tan and light gray, cryptocrystalline, fossiliferous, some sub-sucrosic and arenaceous, with flood chert, gray to light gray, fossilifeorus, sharp, fresh, no shows
limestone, gray, mottled, pelletal, chalky, no visible porosity, no shows
green and brown soft shales, with limestone, gray to tan, grainy mottled bioclastic to pelletal, chalky in part, no shows
shales as above, with limestone grading to cream and light gray, cryptocrystalline, fossiliferous, dense to chalky, no shows
limestone, mixed fossiliferous, mostly gray to brown mottled, pelletal with other fossil fragments, dense to chalky, poor visible porosity, no shows
Mud-Co Mud chk @ 3565 ft. 1025 hrs. 9/26/15 Vis. 57 Wt. 8.95 PV 16 YP 18 WL 9.2 Cake 1/32, pH 9.5 CHL 1000 ppm Ca 20 ppm Sol 4.3 LCM 2# DMC $1107.76 CMC $10761.35
61 units total kick
52 unit recycle
strap 0.88 ft long to board deviation survey 1 deg.
0 Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100



pelletal facies decreasing, more cream cryptocrytaline limestone, fossiliferous, dense

limestone, dark gray, weathered, tuffaceous-earthy-vuggy texture, brittle to dense, some fracturing, no shows

limestone, gray to brown, micro-cryptocrystalline, fossiliferous, abundant ammonites, large fossil frags, no visible porosity, very dense, no shows

limestone, cream to white, microcrystalline, fossiliferous, chalky to dense, no visible porosity, no shows, some chalk

3770 sample, limestone a.a., with influx limestone, dark gray, fossiliferous, some large clasts, some pyritic, very dense to friable/brittle, no visible porosity or shows

limestones a.a., increasing chalk

limestone a.a., some scattered fossiliferous chert, some gray mottled chalky fossiliferous limestone, no shows

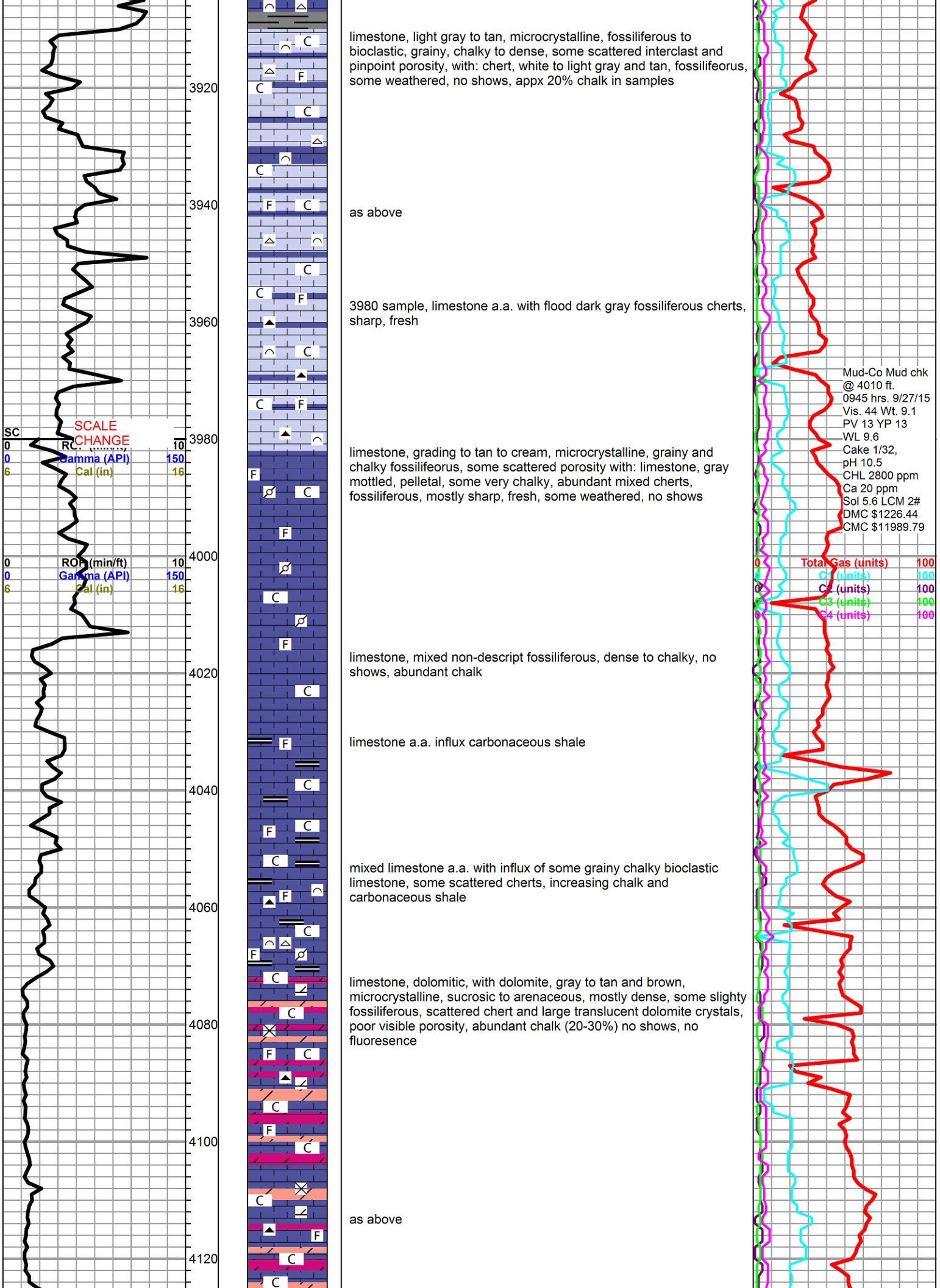
Topeka 3804 -1009 (log 3803 -1008)

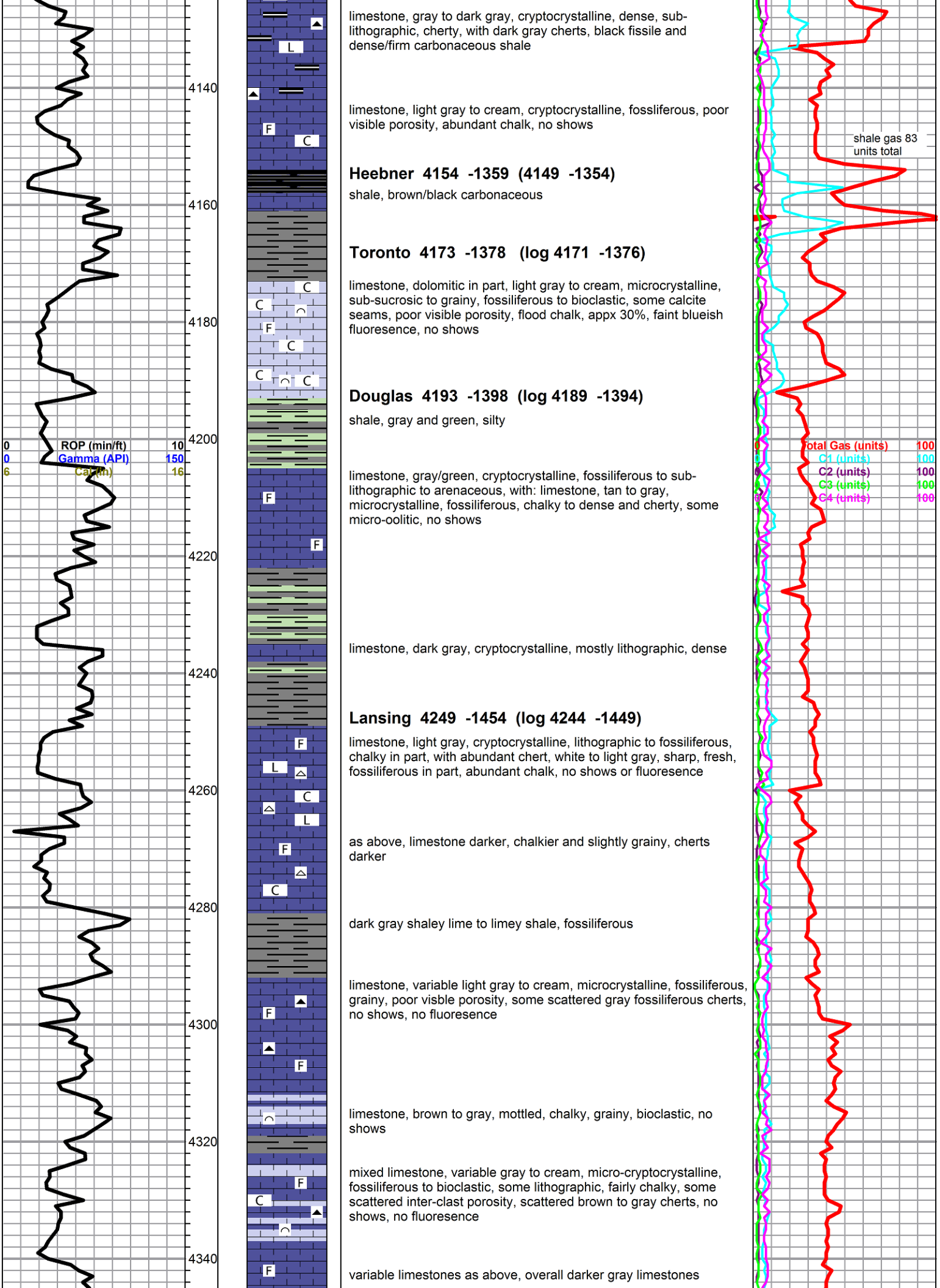
limestone, light gray to cream, microcrystalline, bioclastic to fossiliferous, grainy, chalky, some slightly dolomitic, poor visible porosity, abundant chalk in samples, no shows, no fluoresence, scattered white to light gray chert

limestone, light gray, microcrystalline, bioclastic to fossiliferous, grainy, chalky, poor visible porosity, abundant chalk in samples, no shows, no fluoresence

limestone, mixed tan to cream and gray, some mottling, bioclastic to fossiliferous, some weathered and chalky, abundant chalk in samples, no fluoresence or shows

a.a., with chert, light gray to white, fossilifeorus, sharp, fresh


SCALE CHANGE
SC
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
3920
3940
3960
3980
4000
4020
4040
4060
4080
4100
4120
limestone, light gray to tan, microcrystalline, fossiliferous to bioclastic, grainy, chalky to dense, some scattered interclast and pinpoint porosity, with: chert, white to light gray and tan, fossilifeorus, some weathered, no shows, appx 20% chalk in samples
as above
3980 sample, limestone a.a. with flood dark gray fossiliferous cherts, sharp, fresh
limestone, grading to tan to cream, microcrystalline, grainy and chalky fossilifeorus, some scattered porosity with: limestone, gray mottled, pelletal, some very chalky, abundant mixed cherts, fossiliferous, mostly sharp, fresh, some weathered, no shows
limestone, mixed non-descript fossiliferous, dense to chalky, no shows, abundant chalk
limestone a.a. influx carbonaceous shale
mixed limestone a.a. with influx of some grainy chalky bioclastic limestone, some scattered cherts, increasing chalk and carbonaceous shale
limestone, dolomitic, with dolomite, gray to tan and brown, microcrystalline, sucrosic to arenaceous, mostly dense, some slighty fossiliferous, scattered chert and large translucent dolomite crystals, poor visible porosity, abundant chalk (20-30%) no shows, no fluoresence
as above
Mud-Co Mud chk
@ 4010 ft.
0945 hrs. 9/27/15
Vis. 44 Wt. 9.1
PV 13 YP 13
WL 9.6
Cake 1/32,
pH 10.5
CHL 2800 ppm
Ca 20 ppm
Sol 5.6 LCM 2#
DMC $1226.44
CMC $11989.79
0
Total Gas (units)
100
C1 (units)
100
C2 (units)
100
C3 (units)
100
C4 (units)
100



limestone, gray to dark gray, cryptocrystalline, dense, sub-lithographic, cherty, with dark gray cherts, black fissile and dense/firm carbonaceous shale

limestone, light gray to cream, cryptocrystalline, fossliferous, poor visible porosity, abundant chalk, no shows

Heebner 4154 -1359 (4149 -1354)

shale, brown/black carbonaceous

Toronto 4173 -1378 (log 4171 -1376)

limestone, dolomitic in part, light gray to cream, microcrystalline, sub-sucrosic to grainy, fossiliferous to bioclastic, some calcite seams, poor visible porosity, flood chalk, appx 30%, faint blueish fluoresence, no shows

Douglas 4193 -1398 (log 4189 -1394)

shale, gray and green, silty

limestone, gray/green, cryptocrystalline, fossiliferous to sub-lithographic to arenaceous, with: limestone, tan to gray, microcrystalline, fossiliferous, chalky to dense and cherty, some micro-oolitic, no shows

limestone, dark gray, cryptocrystalline, mostly lithographic, dense

Lansing 4249 -1454 (log 4244 -1449)

limestone, light gray, cryptocrystalline, lithographic to fossiliferous, chalky in part, with abundant chert, white to light gray, sharp, fresh, fossiliferous in part, abundant chalk, no shows or fluoresence

as above, limestone darker, chalkier and slightly grainy, cherts darker

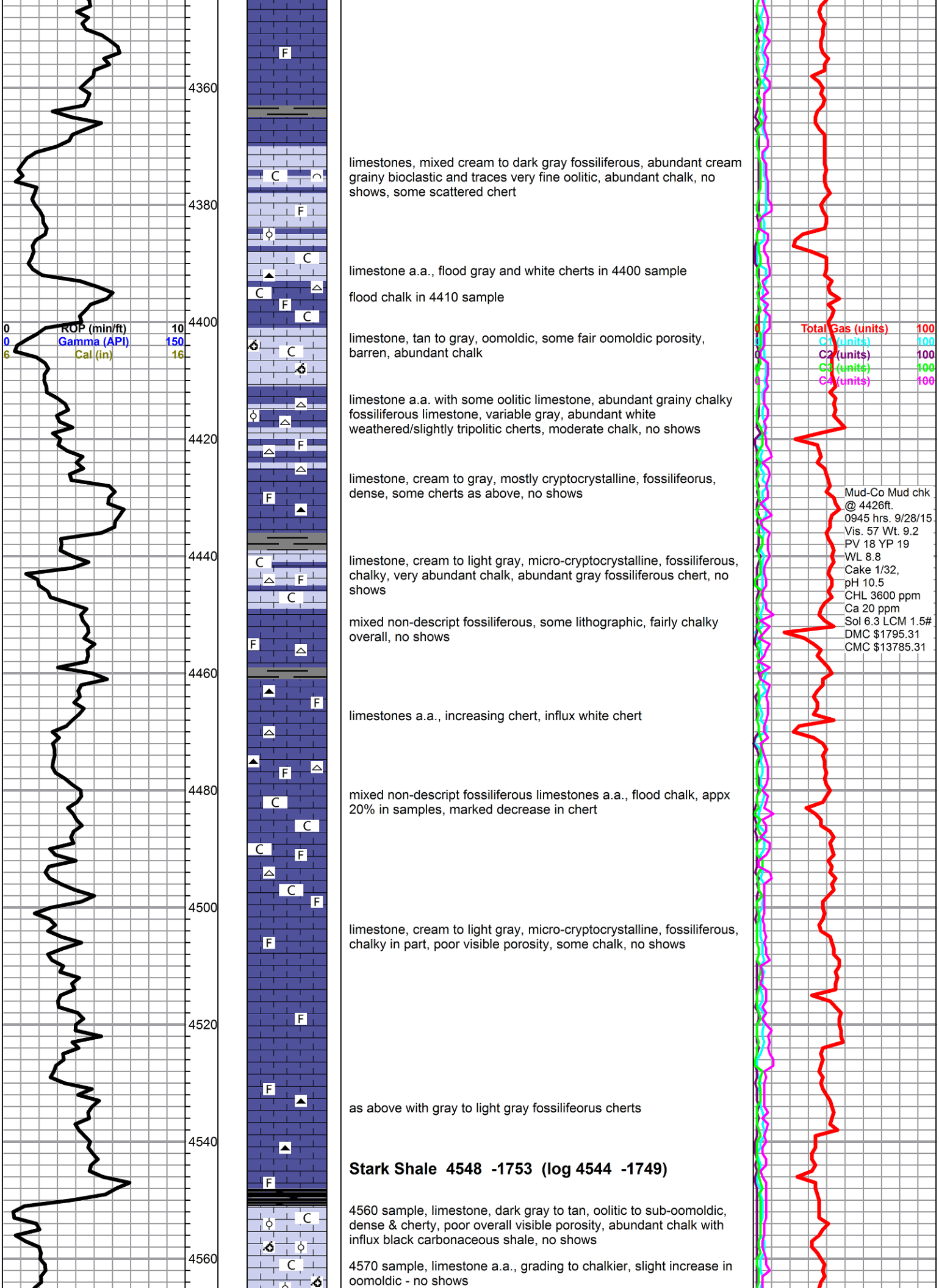
dark gray shaley lime to limey shale, fossiliferous

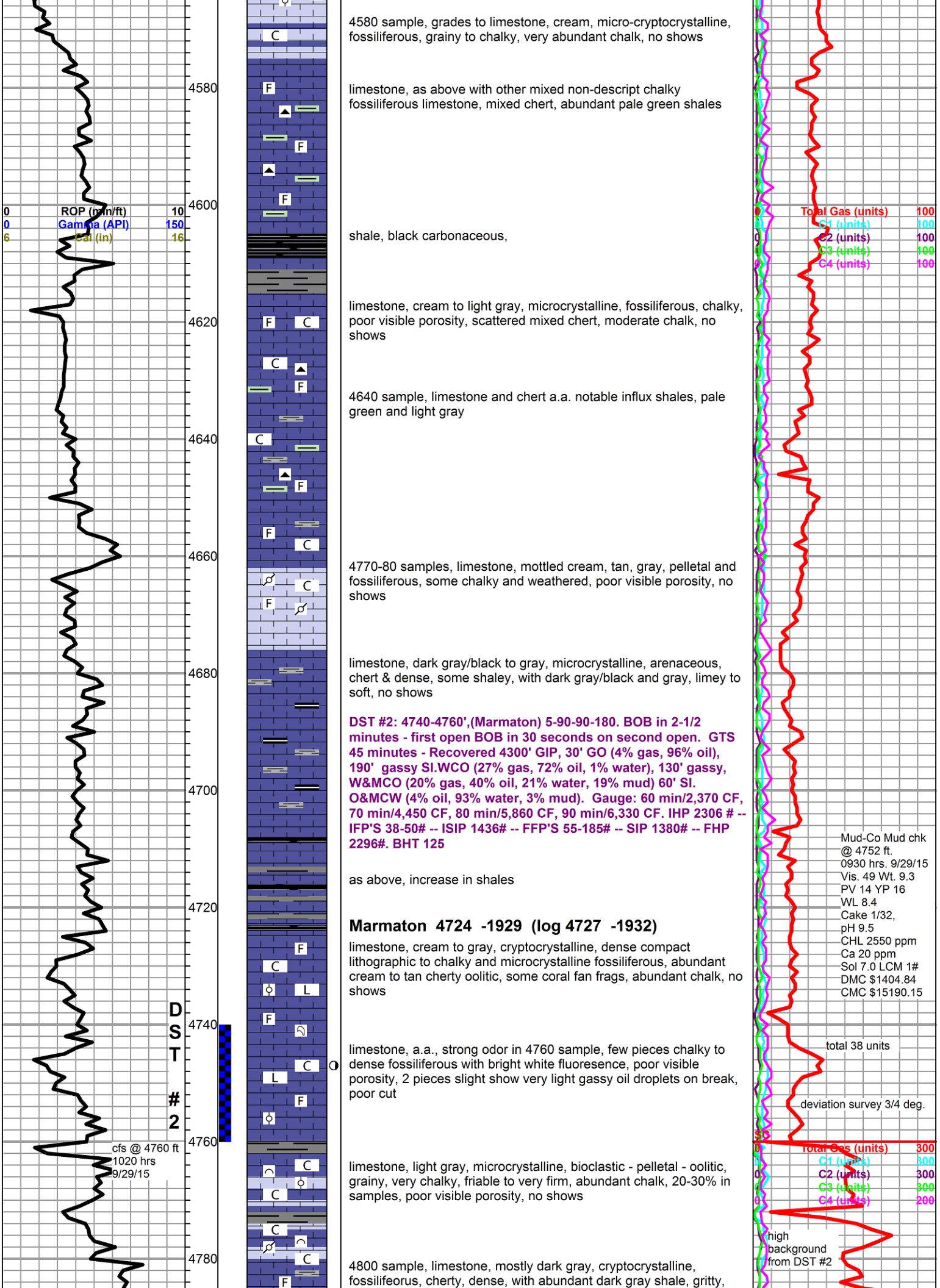
limestone, variable light gray to cream, microcrystalline, fossiliferous, grainy, poor visble porosity, some scattered gray fossiliferous cherts, no shows, no fluoresence

limestone, brown to gray, mottled, chalky, grainy, bioclastic, no shows

mixed limestone, variable gray to cream, micro-cryptocrystalline, fossiliferous to bioclastic, some lithographic, fairly chalky, some scattered inter-clast porosity, scattered brown to gray cherts, no shows, no fluoresence

variable limestones as above, overall darker gray limestones


0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100
4360
4380
4400
4420
4440
4460
4480
4500
4520
4540
4560
F
C
limestones, mixed cream to dark gray fossiliferous, abundant cream grainy bioclastic and traces very fine oolitic, abundant chalk, no shows, some scattered chert
limestone a.a., flood gray and white cherts in 4400 sample
flood chalk in 4410 sample
limestone, tan to gray, oomoldic, some fair oomoldic porosity, barren, abundant chalk
limestone a.a. with some oolitic limestone, abundant grainy chalky fossiliferous limestone, variable gray, abundant white weathered/slightly tripolitic cherts, moderate chalk, no shows
limestone, cream to gray, mostly cryptocrystalline, fossilifeorus, dense, some cherts as above, no shows
Mud-Co Mud chk
@ 4426ft.
0945 hrs. 9/28/15
Vis. 57 Wt. 9.2
PV 18 YP 19
WL 8.8
Cake 1/32,
pH 10.5
CHL 3600 ppm
Ca 20 ppm
Sol 6.3 LCM 1.5#
DMC $1795.31
CMC $13785.31
limestone, cream to light gray, micro-cryptocrystalline, fossiliferous, chalky, very abundant chalk, abundant gray fossiliferous chert, no shows
mixed non-descript fossiliferous, some lithographic, fairly chalky overall, no shows
limestones a.a., increasing chert, influx white chert
mixed non-descript fossiliferous limestones a.a., flood chalk, appx 20% in samples, marked decrease in chert
limestone, cream to light gray, micro-cryptocrystalline, fossiliferous, chalky in part, poor visible porosity, some chalk, no shows
as above with gray to light gray fossilifeorus cherts
Stark Shale 4548 -1753 (log 4544 -1749)
4560 sample, limestone, dark gray to tan, oolitic to sub-oomoldic, dense & cherty, poor overall visible porosity, abundant chalk with influx black carbonaceous shale, no shows
4570 sample, limestone a.a., grading to chalkier, slight increase in oomoldic - no shows



4580 sample, grades to limestone, cream, micro-cryptocrystalline, fossiliferous, grainy to chalky, very abundant chalk, no shows

limestone, as above with other mixed non-descript chalky fossiliferous limestone, mixed chert, abundant pale green shales

shale, black carbonaceous,

limestone, cream to light gray, microcrystalline, fossiliferous, chalky, poor visible porosity, scattered mixed chert, moderate chalk, no shows

4640 sample, limestone and chert a.a. notable influx shales, pale green and light gray

4770-80 samples, limestone, mottled cream, tan, gray, pelletal and fossiliferous, some chalky and weathered, poor visible porosity, no shows

limestone, dark gray/black to gray, microcrystalline, arenaceous, chert & dense, some shaley, with dark gray/black and gray, limey to soft, no shows

DST #2: 4740-4760',(Marmaton) 5-90-90-180. BOB in 2-1/2 minutes - first open BOB in 30 seconds on second open. GTS 45 minutes - Recovered 4300' GIP, 30' GO (4% gas, 96% oil), 190' gassy Sl.WCO (27% gas, 72% oil, 1% water), 130' gassy, W&MCO (20% gas, 40% oil, 21% water, 19% mud) 60' Sl. O&MCW (4% oil, 93% water, 3% mud). Gauge: 60 min/2,370 CF, 70 min/4,450 CF, 80 min/5,860 CF, 90 min/6,330 CF. IHP 2306 # -- IFP'S 38-50# -- ISIP 1436# -- FFP'S 55-185# -- SIP 1380# -- FHP 2296#. BHT 125

as above, increase in shales

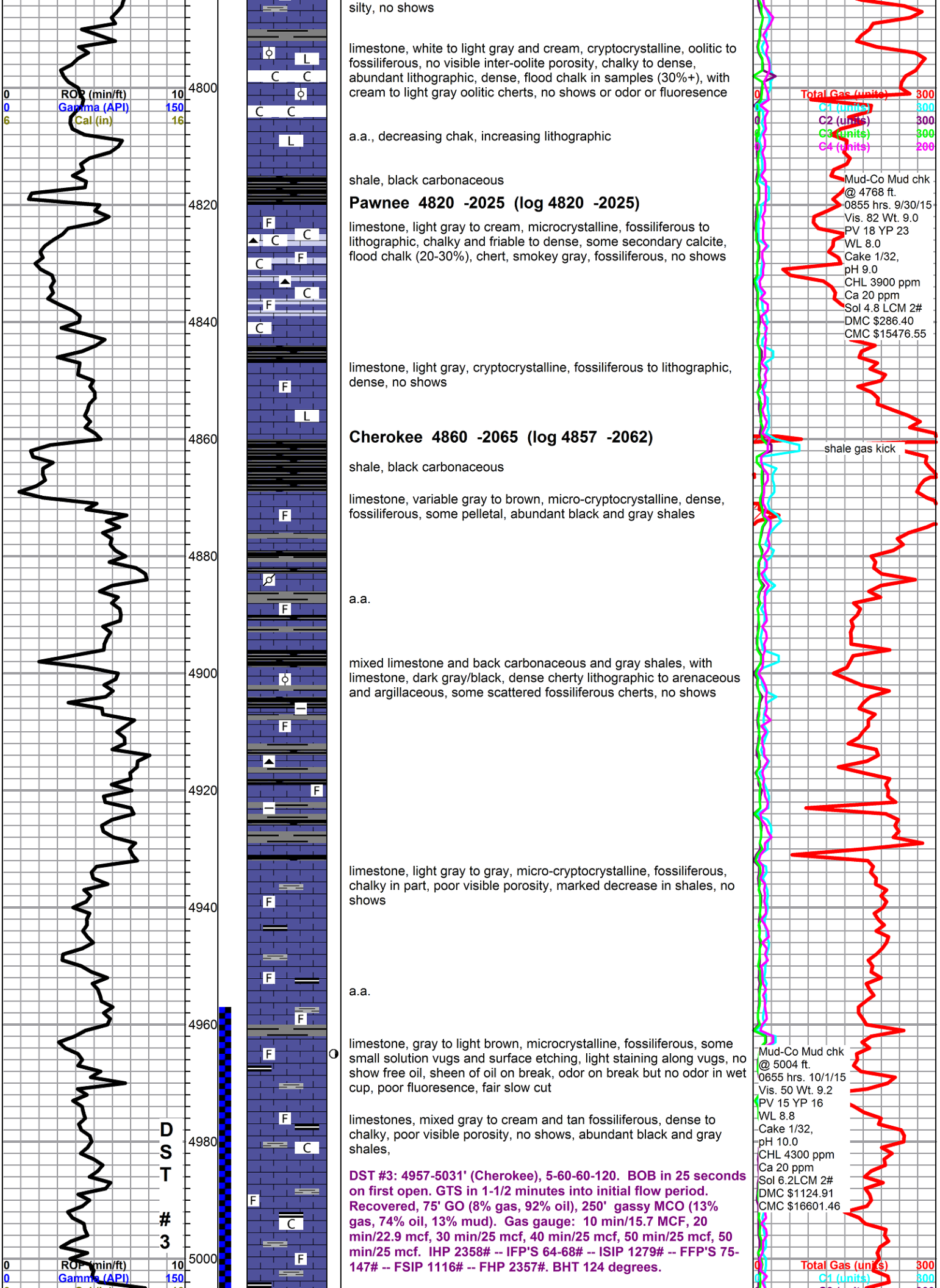
Marmaton 4724 -1929 (log 4727 -1932)

limestone, cream to gray, cryptocrystalline, dense compact lithographic to chalky and microcrystalline fossiliferous, abundant cream to tan cherty oolitic, some coral fan frags, abundant chalk, no shows

limestone, a.a., strong odor in 4760 sample, few pieces chalky to dense fossiliferous with bright white fluoresence, poor visible porosity, 2 pieces slight show very light gassy oil droplets on break, poor cut

limestone, light gray, microcrystalline, bioclastic - pelletal - oolitic, grainy, very chalky, friable to very firm, abundant chalk, 20-30% in samples, poor visible porosity, no shows

4800 sample, limestone, mostly dark gray, cryptocrystalline, fossilifeorus, cherty, dense, with abundant dark gray shale, gritty,



silty, no shows

limestone, white to light gray and cream, cryptocrystalline, oolitic to fossiliferous, no visible inter-oolite porosity, chalky to dense, abundant lithographic, dense, flood chalk in samples (30%+), with cream to light gray oolitic cherts, no shows or odor or fluoresence

a.a., decreasing chak, increasing lithographic

shale, black carbonaceous

Pawnee 4820 -2025 (log 4820 -2025)

limestone, light gray to cream, microcrystalline, fossiliferous to lithographic, chalky and friable to dense, some secondary calcite, flood chalk (20-30%), chert, smokey gray, fossiliferous, no shows

limestone, light gray, cryptocrystalline, fossiliferous to lithographic, dense, no shows

Cherokee 4860 -2065 (log 4857 -2062)

shale, black carbonaceous

limestone, variable gray to brown, micro-cryptocrystalline, dense, fossiliferous, some pelletal, abundant black and gray shales

a.a.

mixed limestone and back carbonaceous and gray shales, with limestone, dark gray/black, dense cherty lithographic to arenaceous and argillaceous, some scattered fossiliferous cherts, no shows

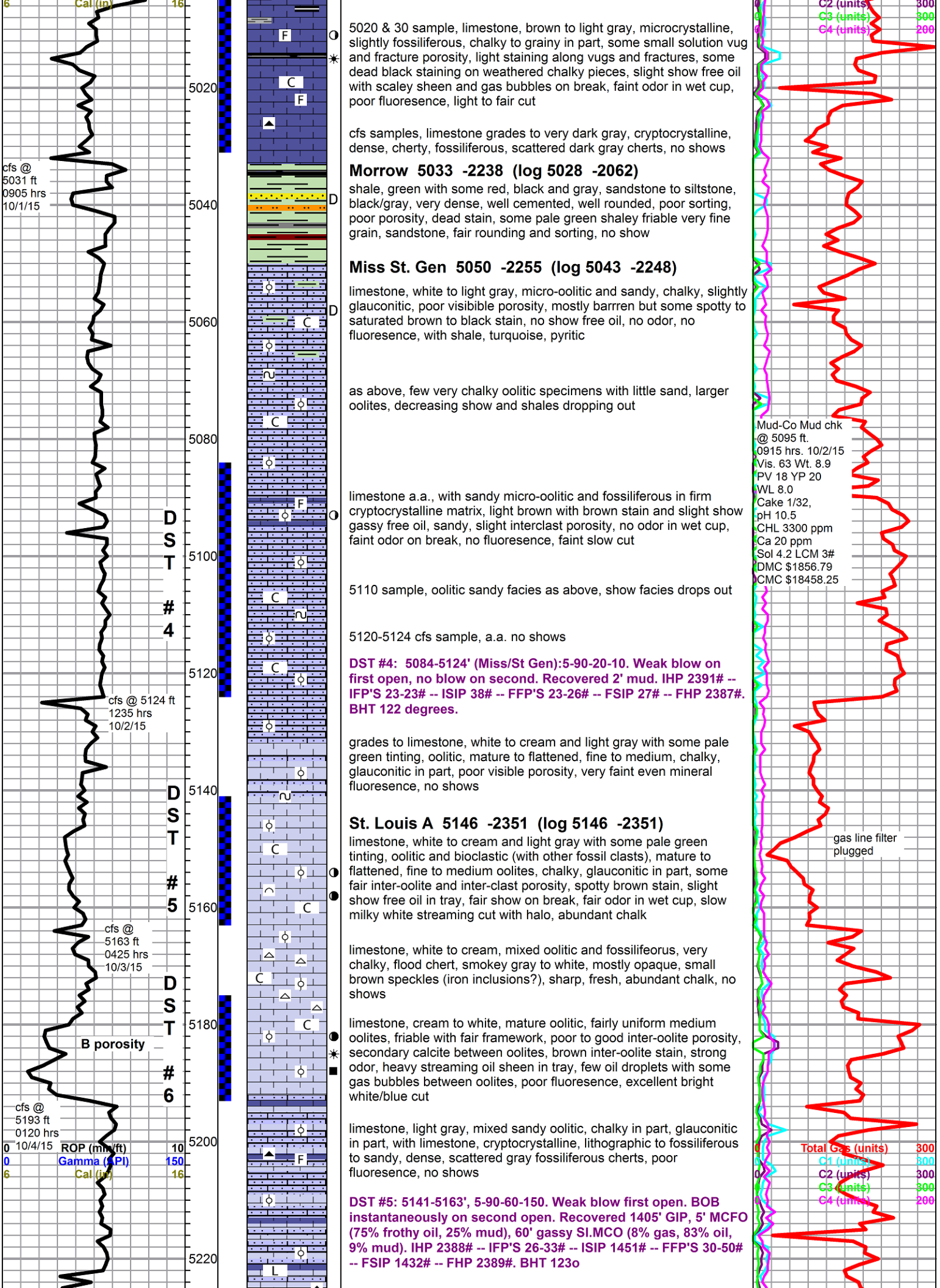
limestone, light gray to gray, micro-cryptocrystalline, fossiliferous, chalky in part, poor visible porosity, marked decrease in shales, no shows

a.a.

limestone, gray to light brown, microcrystalline, fossiliferous, some small solution vugs and surface etching, light staining along vugs, no show free oil, sheen of oil on break, odor on break but no odor in wet cup, poor fluoresence, fair slow cut

limestones, mixed gray to cream and tan fossiliferous, dense to chalky, poor visible porosity, no shows, abundant black and gray shales,

DST #3: 4957-5031' (Cherokee), 5-60-60-120. BOB in 25 seconds on first open. GTS in 1-1/2 minutes into initial flow period. Recovered, 75' GO (8% gas, 92% oil), 250' gassy MCO (13% gas, 74% oil, 13% mud). Gas gauge: 10 min/15.7 MCF, 20 min/22.9 mcf, 30 min/25 mcf, 40 min/25 mcf, 50 min/25 mcf, 50 min/25 mcf. IHP 2358# -- IFP'S 64-68# -- ISIP 1279# -- FFP'S 75-147# -- FSIP 1116# -- FHP 2357#. BHT 124 degrees.



5020 & 30 sample, limestone, brown to light gray, microcrystalline, slightly fossiliferous, chalky to grainy in part, some small solution vug and fracture porosity, light staining along vugs and fractures, some dead black staining on weathered chalky pieces, slight show free oil with scaley sheen and gas bubbles on break, faint odor in wet cup, poor fluoresence, light to fair cut

cfs samples, limestone grades to very dark gray, cryptocrystalline, dense, cherty, fossiliferous, scattered dark gray cherts, no shows

Morrow 5033 -2238 (log 5028 -2062)

shale, green with some red, black and gray, sandstone to siltstone, black/gray, very dense, well cemented, well rounded, poor sorting, poor porosity, dead stain, some pale green shaley friable very fine grain, sandstone, fair rounding and sorting, no show

Miss St. Gen 5050 -2255 (log 5043 -2248)

limestone, white to light gray, micro-oolitic and sandy, chalky, slightly glauconitic, poor visibible porosity, mostly barrren but some spotty to saturated brown to black stain, no show free oil, no odor, no fluoresence, with shale, turquoise, pyritic

as above, few very chalky oolitic specimens with little sand, larger oolites, decreasing show and shales dropping out

limestone a.a., with sandy micro-oolitic and fossiliferous in firm cryptocrystalline matrix, light brown with brown stain and slight show gassy free oil, sandy, slight interclast porosity, no odor in wet cup, faint odor on break, no fluoresence, faint slow cut

5110 sample, oolitic sandy facies as above, show facies drops out

5120-5124 cfs sample, a.a. no shows

DST #4: 5084-5124' (Miss/St Gen):5-90-20-10. Weak blow on first open, no blow on second. Recovered 2' mud. IHP 2391# -- IFP'S 23-23# -- ISIP 38# -- FFP'S 23-26# -- FSIP 27# -- FHP 2387#. BHT 122 degrees.

grades to limestone, white to cream and light gray with some pale green tinting, oolitic, mature to flattened, fine to medium, chalky, glauconitic in part, poor visible porosity, very faint even mineral fluoresence, no shows

St. Louis A 5146 -2351 (log 5146 -2351)

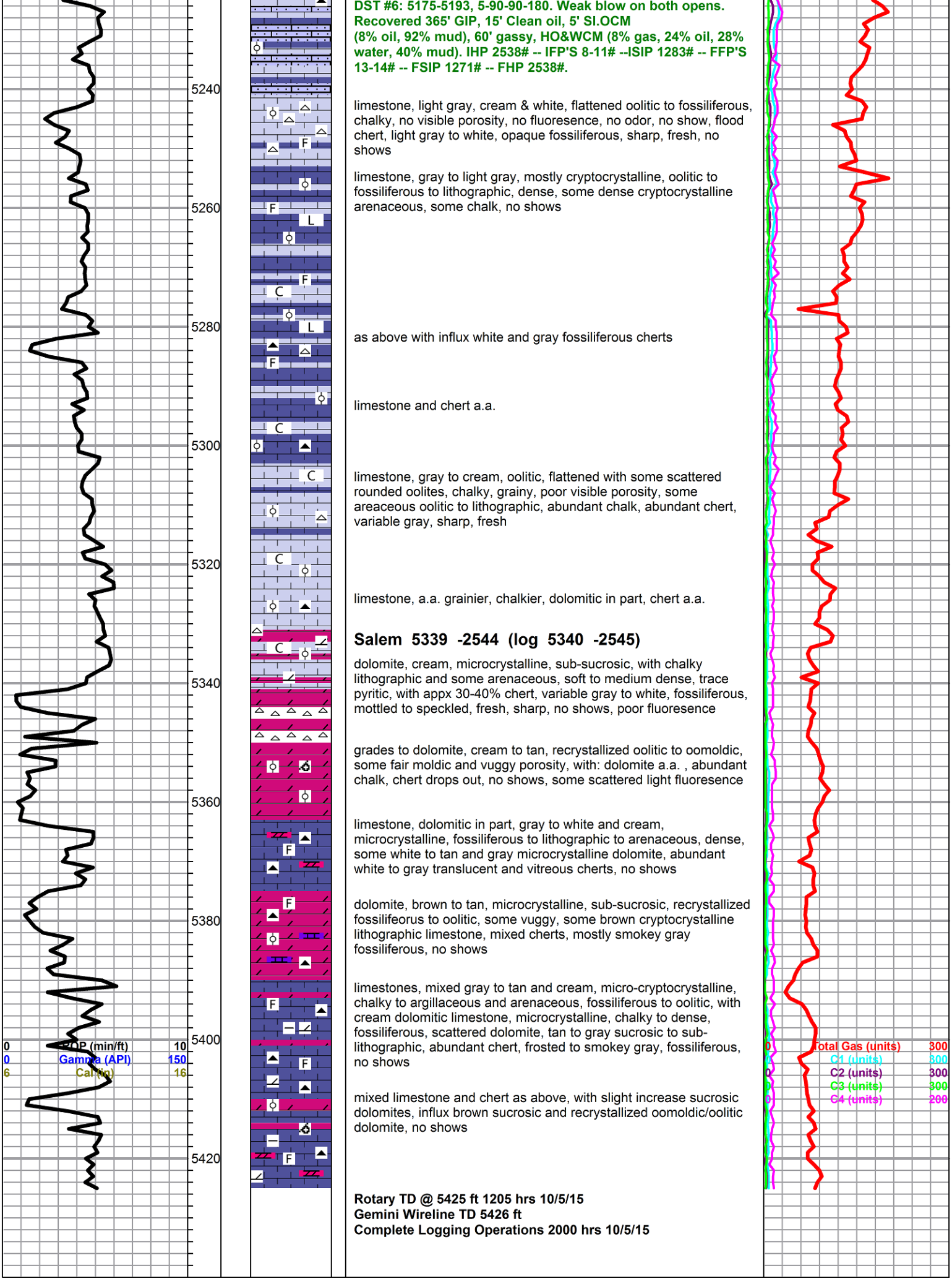
limestone, white to cream and light gray with some pale green tinting, oolitic and bioclastic (with other fossil clasts), mature to flattened, fine to medium oolites, chalky, glauconitic in part, some fair inter-oolite and inter-clast porosity, spotty brown stain, slight show free oil in tray, fair show on break, fair odor in wet cup, slow milky white streaming cut with halo, abundant chalk

limestone, white to cream, mixed oolitic and fossilifeorus, very chalky, flood chert, smokey gray to white, mostly opaque, small brown speckles (iron inclusions?), sharp, fresh, abundant chalk, no shows

limestone, cream to white, mature oolitic, fairly uniform medium oolites, friable with fair framework, poor to good inter-oolite porosity, secondary calcite between oolites, brown inter-oolite stain, strong odor, heavy streaming oil sheen in tray, few oil droplets with some gas bubbles between oolites, poor fluoresence, excellent bright white/blue cut

limestone, light gray, mixed sandy oolitic, chalky in part, glauconitic in part, with limestone, cryptocrystalline, lithographic to fossiliferous to sandy, dense, scattered gray fossiliferous cherts, poor fluoresence, no shows

DST #5: 5141-5163', 5-90-60-150. Weak blow first open. BOB instantaneously on second open. Recovered 1405' GIP, 5' MCFO (75% frothy oil, 25% mud), 60' gassy Sl.MCO (8% gas, 83% oil, 9% mud). IHP 2388# -- IFP'S 26-33# -- ISIP 1451# -- FFP'S 30-50# -- FSIP 1432# -- FHP 2389#. BHT 123o



DST #6: 5175-5193, 5-90-90-180. Weak blow on both opens. Recovered 365' GIP, 15' Clean oil, 5' SI.OCM (8% oil, 92% mud), 60' gassy, HO&WCM (8% gas, 24% oil, 28% water, 40% mud). IHP 2538# -- IFP'S 8-11# --ISIP 1283# -- FFP'S 13-14# -- FSIP 1271# -- FHP 2538#.

limestone, light gray, cream & white, flattened oolitic to fossiliferous, chalky, no visible porosity, no fluoresence, no odor, no show, flood chert, light gray to white, opaque fossiliferous, sharp, fresh, no shows

limestone, gray to light gray, mostly cryptocrystalline, oolitic to fossiliferous to lithographic, dense, some dense cryptocrystalline arenaceous, some chalk, no shows

as above with influx white and gray fossiliferous cherts

limestone and chert a.a.

limestone, gray to cream, oolitic, flattened with some scattered rounded oolites, chalky, grainy, poor visible porosity, some areaceous oolitic to lithographic, abundant chalk, abundant chert, variable gray, sharp, fresh

limestone, a.a. grainier, chalkier, dolomitic in part, chert a.a.

Salem 5339 -2544 (log 5340 -2545)

dolomite, cream, microcrystalline, sub-sucrosic, with chalky lithographic and some arenaceous, soft to medium dense, trace pyritic, with appx 30-40% chert, variable gray to white, fossiliferous, mottled to speckled, fresh, sharp, no shows, poor fluoresence

grades to dolomite, cream to tan, recrystallized oolitic to oomoldic, some fair moldic and vuggy porosity, with: dolomite a.a. , abundant chalk, chert drops out, no shows, some scattered light fluoresence

limestone, dolomitic in part, gray to white and cream, microcrystalline, fossiliferous to lithographic to arenaceous, dense, some white to tan and gray microcrystalline dolomite, abundant white to gray translucent and vitreous cherts, no shows

dolomite, brown to tan, microcrystalline, sub-sucrosic, recrystallized fossilifeorus to oolitic, some vuggy, some brown cryptocrystalline lithographic limestone, mixed cherts, mostly smokey gray fossiliferous, no shows

limestones, mixed gray to tan and cream, micro-cryptocrystalline, chalky to argillaceous and arenaceous, fossiliferous to oolitic, with cream dolomitic limestone, microcrystalline, chalky to dense, fossiliferous, scattered dolomite, tan to gray sucrosic to sub-lithographic, abundant chert, frosted to smokey gray, fossiliferous, no shows

mixed limestone and chert as above, with slight increase sucrosic dolomites, influx brown sucrosic and recrystallized oomoldic/oolitic dolomite, no shows

Rotary TD @ 5425 ft 1205 hrs 10/5/15
Gemini Wireline TD 5426 ft
Complete Logging Operations 2000 hrs 10/5/15