OPERATOR

Company:	Falcon Exploration, Inc		
Address:	125 N. Market Suite 1252 Wichita, KS 67202		
Contact Geologist:	Brian Fisher		
Contact Phone Nbr:	316-262-1378		
Well Name:	R. Josserand #1-4 (SW)		
Location:	Sec. 4 - T28S - R30W	API:	15-069-20339-0000
Pool:		Field:	Wildcat
State:	Kansas	Country:	USA

Scale 1:240 Imperial

Well Name:	R. Josserand #1-4 (SW)		
Surface Location:	Sec. 4 - T28S - R30W		
Bottom Location:			
API:	15-069-20339-0000		
License Number:	5316		
Spud Date:	2/21/2011	Time:	00:00
Region:	Gray, Co.		
Drilling Completed:	3/6/2011	Time:	11:30
Surface Coordinates:	1160' FSL & 2000' FWL		
Bottom Hole Coordinates:			
Ground Elevation:	2807.00ft		
K.B. Elevation:	2820.00ft		
Logged Interval:	2650.00ft	To:	5400.00ft
Total Depth:	5400.00ft		
Formation:	Mississippian		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:		Latitude:	
N/S Co-ord:	1160' FSL		
E/W Co-ord:	2000' FWL		

LOGGED BY

Keith Reavis
Consulting Geologist

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

CONTRACTOR

Contractor:	Sterling Drilling Company		
Rig #:	5		
Rig Type:	mud rotary		
Spud Date:	2/21/2011	Time:	00:00
TD Date:	3/6/2011	Time:	11:30
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	2820.00ft	Ground Elevation:	2807.00ft
K.B. to Ground:	13.00ft		

NOTES

Due to negative results from Drill Stem Tests #1-4, and evaluation of electrical logs, it was determined by all parties that the R. Josserand #1-4 be plugged and abandoned as a dry test.

The drilling samples from this well were saved and will be available for review at the Kansas Geological Well Sample Library located in Wichita, KS

Library located in Wichita, KS.

Note: All sample tops and drill time were on the average 3 to 4 ft. low to the actual measured depths as depicted by the plotted Gamma Ray from appx. 3600' to TD on this log.

Respectfully submitted
Keith Reavis and Brian Fisher

Daily Drilling Report and Well Comparison Sheet

DATE	7:00 AM DEPTH	REMARKS
02/25/2011	2733	Geologist Keith Reavis on location @ 0610 hrs, 2714 ft., drilling Chase Group, Towanda, Ft. Riley
02/26/2011	3250	drilling ahead, Cottonwood, Neva – displace mud system @ 3175' drill Foraker, Stotler, gas kick in Stotler warrants DST, short trip, TOH
02/27/2011	3573	TIH w/test tools, conducting and complete DST #1, successful test, TIH/w bit, resume drilling, Tarkio, Topeka
02/28/2011	3981	drilling, Topeka, Lecompton, Heebner, Toronto, Douglas, Lansing
03/01/2011	4442	drilling ahead, Lansing, kick and show in Swope, warrants DST short trip, trip out for DST #2
03/02/2011	4621	conducting DST #2, conduct and complete DST, successful test resume drilling
03/03/2011	4790	drilling ahead, lower KC, Marmaton, Pawnee, Cherokee, geologist Brian Fisher on location, preparing to relieve Geologist Keith Reavis
03/04/2011	5068	drilling ahead, Cherokee, Morrow, St. Gen
03/05/2011	5305	Drilled up St. Louis porosity zones, show warrents Dst, Short trip, TOH for Dst #3, 5250 -5305', Geologist Brian Fisher, relieves Keith Reavis
03/06/2011	5355	RTD 5400 at 11:30 am. Logged well. Preparing to run Straddle Dst #4
03/07/2011	5400	Runing Dst #4: 5254-5280.
03/08/2011	5400	Test results for Dst #4 were negative, Plugging well.

	DRILLING WELL R. Josserand #1-4 1160' FSL & 2000' FWL Sec. 4 T28S R30W 2820 KB				COMPARISON WELL Falcon – Nuss #1-4 330' FNL & 2070' FWL Sec. 4 T28S R30W 2819 KB				COMPARISON WELL Falcon - #1 Nichols C SE SW Sec. 3 T28S R30W 2812 KB			
							Structural Relationship				Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Chase	2685	135	2682	138	2673	146	-11	-8	2667	145	-10	-7
Winfield	2758	62	2746	74	2746	73	-11	1	2737	75	-13	-1
Towanda	2803	17	2796	24	2794	25	-8	-1	2784	28	-11	-4
Ft. Riley	2854	-34	2847	-27	2846	-27	-7	0	2833	-21	-13	-6
Neva	3184	-364	3175	-355	3173	-354	-10	-1	3160	-348	-16	-7
Foraker	3290	-470	3283	-463	3283	-464	-6	1	3270	-458	-12	-5
Stotler	3530	-710	3528	-708	3530	-711	1	3	3513	-701	-9	-7
Topeka	3805	-985	3803	-983	3801	-982	-3	-1	3784	-972	-13	-11
Lecompton	3965	-1145	3960	-1140	3963	-1144	-1	4	3942	-1130	-15	-10
Heebner	4141	-1321	4138	-1318	4133	-1314	-7	-4	4128	-1316	-5	-2
Lansing	4247	-1427	4243	-1423	4240	-1421	-6	-2	4226	-1414	-13	-9
Stark	4597	-1777	4594	-1774	4581	-1762	-15	-12	4572	-1760	-17	-14
Marmaton	4738	-1918	4734	-1914	4720	-1901	-17	-13	4724	-1912	-6	-2
Pawnee	4827	-2007	4823	-2003	4814	-1995	-12	-8	4807	-1995	-12	-8
Cherokee	4872	-2052	4869	-2049	4859	-2040	-12	-9	4855	-2043	-9	-6
Morrow	5072	-2252	5070	-2250	5039	-2220	-32	-30	5053	-2241	-11	-9
Miss St. Gen.	5172	-2352	5176	-2356	5155	-2336	-16	-20	5141	-2329	-23	-27
St. Louis A por	5263	-2443	5260	-2440	5262	-2443	0	3	5242	-2430	-13	-10
St. Louis B por	5291	-2471	5288	-2468	5278	-2459	-12	-9				
Total Depth	5400	-2580	5398	-2578	5406	-2587	7	9	5418	-2606	26	28

Drill Stem Test #1

RICKETTS TESTING (620) 326-5830 Page 1

Company	**Falcon Exploration, Inc.**	Lease Name	**R. Josserand (SW)**		
Address	**125 N. Market, Ste. 1252**	Lease #	**1-4**		
CSZ	**Wichita, KS 76202**	Legal Desc	**NW-NE-SE-SW**	Job Ticket	**2142**
Attn.	**Keith Reavis**	Section	**4**	Range	**30W**
		Township	**28S**		
		County	**Gray**	State	**KS**
		Drilling Cont	**Sterling Drilling Co. Rig #5**		
Comments	**Legal Description Feet: 1160' FSL & 2000' FWL**				

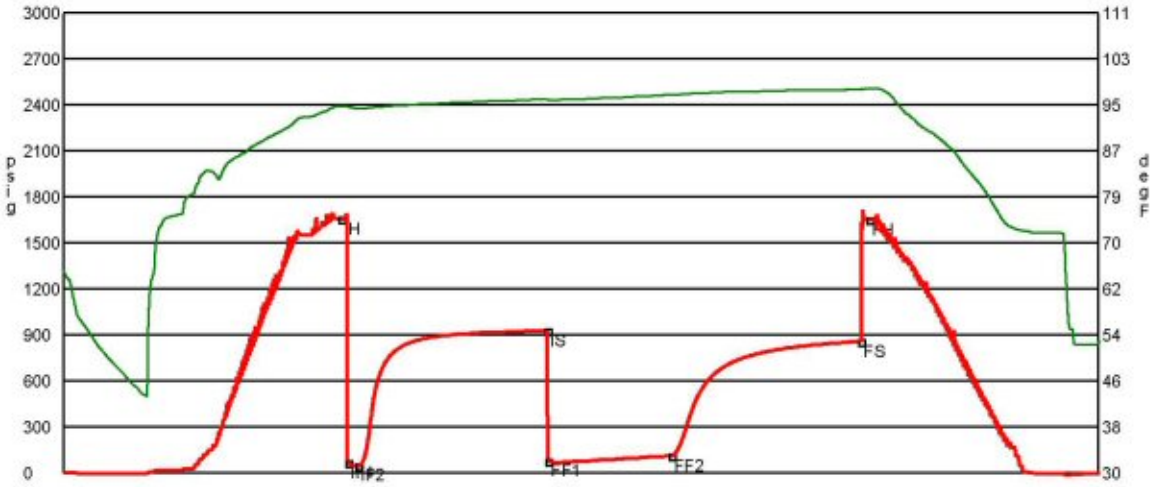
GENERAL INFORMATION

Test #	**1**	Test Date	**2/27/2011**	Chokes	**3/4**	Hole Size	**7 7/8**
Tester	**Tim Venters**			Top Recorder #	**W1119**		
Test Type	**Conventional Bottom Hole Successful Test**			Mid Recorder #	**W1022**		
				Bott Recorder #	**13310**		
# of Packers	**2.0**	Packer Size	**6 3/4**	Mileage	**232**	Approved By	
				Standby Time	**0**		
Mud Type	**Gel Chem**			Extra Equipmnt	**Jars & Safety joint**		
Mud Weight	**8.7**	Viscosity	**59.0**	Time on Site	**11:20 PM**		
Filtrate	**7.2**	Chlorides	**1200**	Tool Picked Up	**2:40 AM**		
				Tool Layed Dwn	**10:10 AM**		
Drill Collar Len	**338.0**						
Wght Pipe Len	**0**			Elevation	**2807.00**	Kelley Bushings	**2820.00**
Formation	**Stotler**			Start Date/Time	**2/27/2011 1:53 AM**		
Interval Top	**3496.0**	Bottom	**3573.0**	End Date/Time	**2/27/2011 10:09 AM**		
Anchor Len Below	**77.0**	Between	**0**				
Total Depth	**3573.0**						

Blow Type **Weak 1/2 inch blow at the start of the initial flow period, building to 3 1/2 in ches. Weak 1/4 inch blow at the start of the final flow period, building to 11 inches. Times: 5, 90, 60, 90.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
95	Gas in Pipe	100% 95ft	0% 0ft	0% 0ft	0% 0ft
150	Mud with a trace of oil	0% 0ft	trace	0% 0ft	100% 150ft



	Date	Time	Pressure	Temp	
IH	2/27/2011 4:05:10 AM	2.202778	1657.628	94.568	Initial Hydro-static
IF1	2/27/2011 4:08:30 AM	2.258333	65.683	94.474	Initial Flow (1)
IF2	2/27/2011 4:13:20 AM	2.338889	49.168	94.217	Initial Flow (2)
IS	2/27/2011 5:44:10 AM	3.852778	925.756	95.795	Initial Shut-In
FF1	2/27/2011 5:44:40 AM	3.861111	79.457	95.707	Final Flow (1)
FF2	2/27/2011 6:43:40 AM	4.844444	112.481	96.587	Final Flow (2)
FS	2/27/2011 8:14:40 AM	6.361111	858.274	97.538	Final Shut-In
FH	2/27/2011 8:18:40 AM	6.427778	1651.424	97.653	Final Hydro-static

Drill Stem Test #2

RICKETTS TESTING (620) 326-5830 Page 1

Company	**Falcon Exploration, Inc.**	Lease Name	**R. Josserand (SW)**		
Address	**125 N. Market, Ste. 1252**	Lease #	**1-4**		
CSZ	**Wichita, KS 76202**	Legal Desc	**NW-NE-SE-SW**	Job Ticket	**2142**
Attn.	**Keith Reavis**	Section	**4**	Range	**30W**
		Township	**28S**		
		County	**Gray**	State	**KS**
		Drilling Cont	**Sterling Drilling Co. Rig #5**		
Comments	**Legal Description Feet: 1160' FSL & 2000' FWL**				

GENERAL INFORMATION

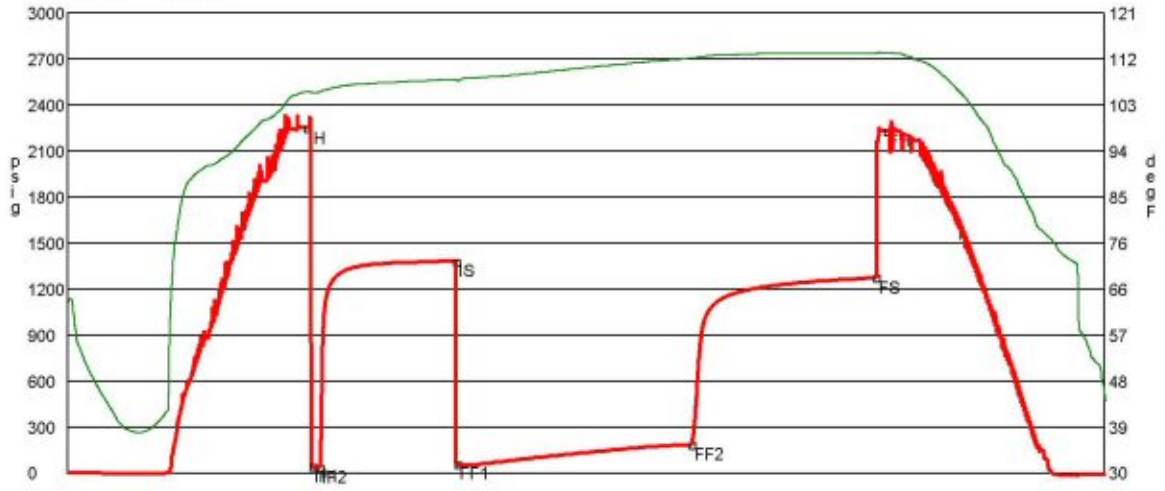
Test #	**2**	Test Date	**3/2/2011**	Chokes	**3/4**	Hole Size	**7 7/8**
Tester	**Tim Venters**			Top Recorder #	**W1119**		
Test Type	**Conventional Bottom Hole Successful Test**			Mid Recorder #	**W1022**		
				Bott Recorder #	**13310**		
# of Packers	**2.0**	Packer Size	**6 3/4**	Mileage	**232**	Approved By	
				Standby Time	**0**		
Mud Type	**Gel Chem**			Extra Equipmnt	**Jars & Safety joint**		
Mud Weight	**9.3**	Viscosity	**49.0**	Time on Site	**9:50 PM**		
Filtrate	**6.8**	Chlorides	**1400**	Tool Picked Up	**4:30 AM**		
				Tool Layed Dwn	**3:00 PM**		
Drill Collar Len	**338.0**						
Wght Pipe Len	**0**			Elevation	**2807.00**	Kelley Bushings	**2820.00**
Formation	**Lansing-Swope**			Start Date/Time	**3/2/2011 3:47 AM**		
Interval Top	**4596.0**	Bottom	**4621.0**	End Date/Time	**3/2/2011 3:10 PM**		
Anchor Len Below	**25.0**	Between	**0**				
Total Depth	**4621.0**						

Blow Type **Weak surface blow at the start of the initial flow period, building to 1 inch. Weak surface blow at the start of the final flow period, building to 9 inches in 130 minutes, where it held the rest of the period. Weak surface blow back duri ng the final shut-in period, lasting 20-30 minutes. Times: 5, 90, 155, 122.**

RECOVERY

Feet	Description	Gas		Oil	Water		Mud	
250	Very slight mud cut water with a very slight trace of oil	0%	0ft	trace	98%	245ft	2%	5ft
65	Gassy, mud cut water with a very slight trace of o il	2%	1.3ft	trace	68%	44.2ft	30%	19.5ft
65	Gassy, water cut mud with a very slight trace of o il	2%	1.3ft	trace	23%	15ft	75%	48.8ft

DST Fluids **110000**



	Date	Time	Pressure	Temp	
IH	3/2/2011 6:23:00 AM	2.6	2251.122	105.365	Initial Hydro-static
IF1	3/2/2011 6:26:50 AM	2.663889	44.999	105.251	Initial Flow (1)
IF2	3/2/2011 6:31:40 AM	2.744444	36.468	105.316	Initial Flow (2)
IS	3/2/2011 8:01:30 AM	4.241667	1381.742	107.906	Initial Shut-In
FF1	3/2/2011 8:02:10 AM	4.252778	61.602	107.746	Final Flow (1)
FF2	3/2/2011 10:37:00 AM	6.833333	185.561	112.049	Final Flow (2)
FS	3/2/2011 12:38:40 PM	8.861111	1273.32	113.058	Final Shut-In
FH	3/2/2011 12:45:20 PM	8.972222	2233.035	113.151	Final Hydro-static

Drill Stem Test #3

DRILL STEM TEST REPORT

Falcon Exploration

125 N Market STE1252
Wichita KS, 67202

ATTN: Brian Fisher

R. Josserand #1-4

4/28s/30w

Job Ticket: 39391 **DST#: 3**

Test Start: 2011.03.05 @ 10:40:27

GENERAL INFORMATION:

Formation: **ST. Louis'B'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:03:42
Time Test Ended: 21:20:57

Test Type: Conventional Bottom Hole
Tester: Mike Slemp
Unit No: 53

Interval: 5250.00 ft (KB) To 5305.00 ft (KB) (TVD)
Total Depth: 5305.00 ft (KB) (TVD)
Hole Diameter: 6.75 inches Hole Condition: Good

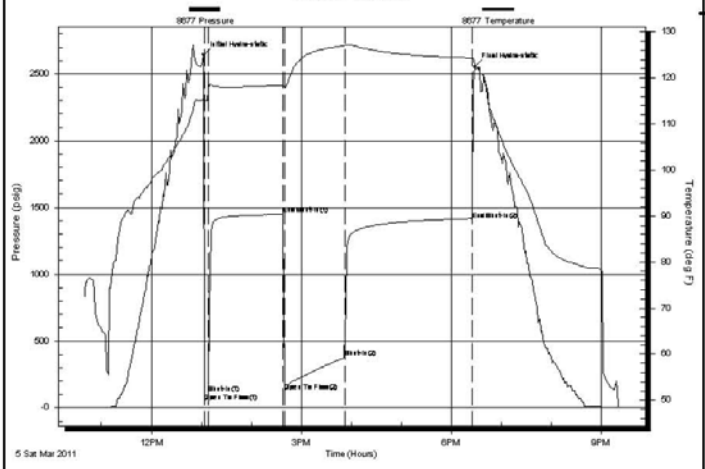
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8677 **Inside**

Press@RunDepth: 376.13 psig @ 5252.00 ft (KB)
Start Date: 2011.03.05 End Date: 2011.03.05
Start Time: 10:40:28 End Time: 21:20:57

Capacity: 8000.00 psig
Last Calib.: 2011.03.05
Time On Btm: 2011.03.05 @ 13:02:12
Time Off Btm: 2011.03.05 @ 18:27:42

TEST COMMENT: IF- Weak building blow , 6 inches in 6 minutes
ISI- No blow back
FF-Strong buildikng blow BOB in 21 minutes
FSI- 1/2 inch blow back for duration of shut in 150 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2641.11	115.25	Initial Hydro-static
2	45.38	115.30	Open To Flow (1)
6	111.39	117.28	Shut-In(1)
96	1447.56	118.43	End Shut-In(1)
98	123.57	117.88	Open To Flow (2)
170	376.13	126.97	Shut-In(2)
323	1409.33	124.39	End Shut-In(2)
326	2554.43	122.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCM100%mud skim of oil	0.59
120.00	WCM60%water40%mud	0.59
731.00	WCM80%water20%mud	9.08

Gas Rates

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

Drill Stem Test #4 Straddle

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Falcon Exploration

125 N Market STE1252
Wichita KS, 67202

ATTN: Brian Fisher

R. Josserand #1-4

4/28s/30w

Job Ticket: 39392 **DST#:4**

Test Start: 2011.03.07 @ 06:25:24

GENERAL INFORMATION:

Formation: **ST.Louis, Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:26:09
Time Test Ended: 16:47:24

Test Type: Conventional Straddle
Tester: Mike Slemp
Unit No: 53

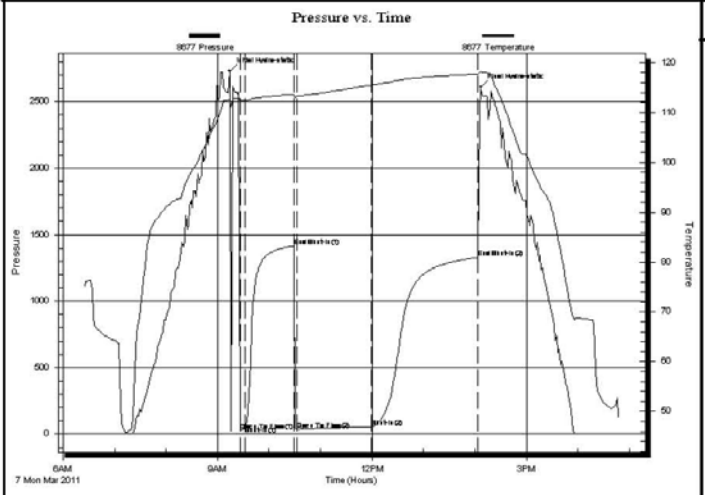
Interval: 5254.00 ft (KB) To 5280.00 ft (KB) (TVD)
Total Depth: 5398.00 ft (KB) (TVD)
Hole Diameter: 6.75 inches Hole Condition: Good

Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8677 **Inside**
Press@RunDepth: 55.95 psig @ 5255.00 ft (KB)
Start Date: 2011.03.07 End Date: 2011.03.07
Start Time: 06:25:25 End Time: 16:47:24

Capacity: 8000.00 psig
Last Calib.: 2011.03.07
Time On Btm: 2011.03.07 @ 09:14:09
Time Off Btm: 2011.03.07 @ 14:06:39

TEST COMMENT: IF- Weak blow v 1/2 inch in 5 min
ISI- No blow back
FF- Weak blow 2 inches in 90 min
FSI- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2729.71	112.63	Initial Hydro-static
12	27.49	112.44	Open To Flow (1)
18	59.28	112.39	Shut-In(1)
75	1412.14	113.62	End Shut-In(1)
78	32.45	113.29	Open To Flow (2)
165	55.95	115.51	Shut-In(2)
290	1330.47	117.69	End Shut-In(2)
293	2608.54	118.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	100% mud skim of oil	0.64

Gas Rates

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

ROCK TYPES

Dolprim
Lmst fw<7
Lmst fw7>
shale, grn
shale, gry
Carbon Sh
shale, red

ACCESSORIES

ACCESSORIES

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

FOSSIL
- Bioclastic or Fragmental
- Fossils < 20%
- Oolite
- Pellets
- Oomoldic

STRINGER
- Limestone
- Sandstone
- Shale
- red shale

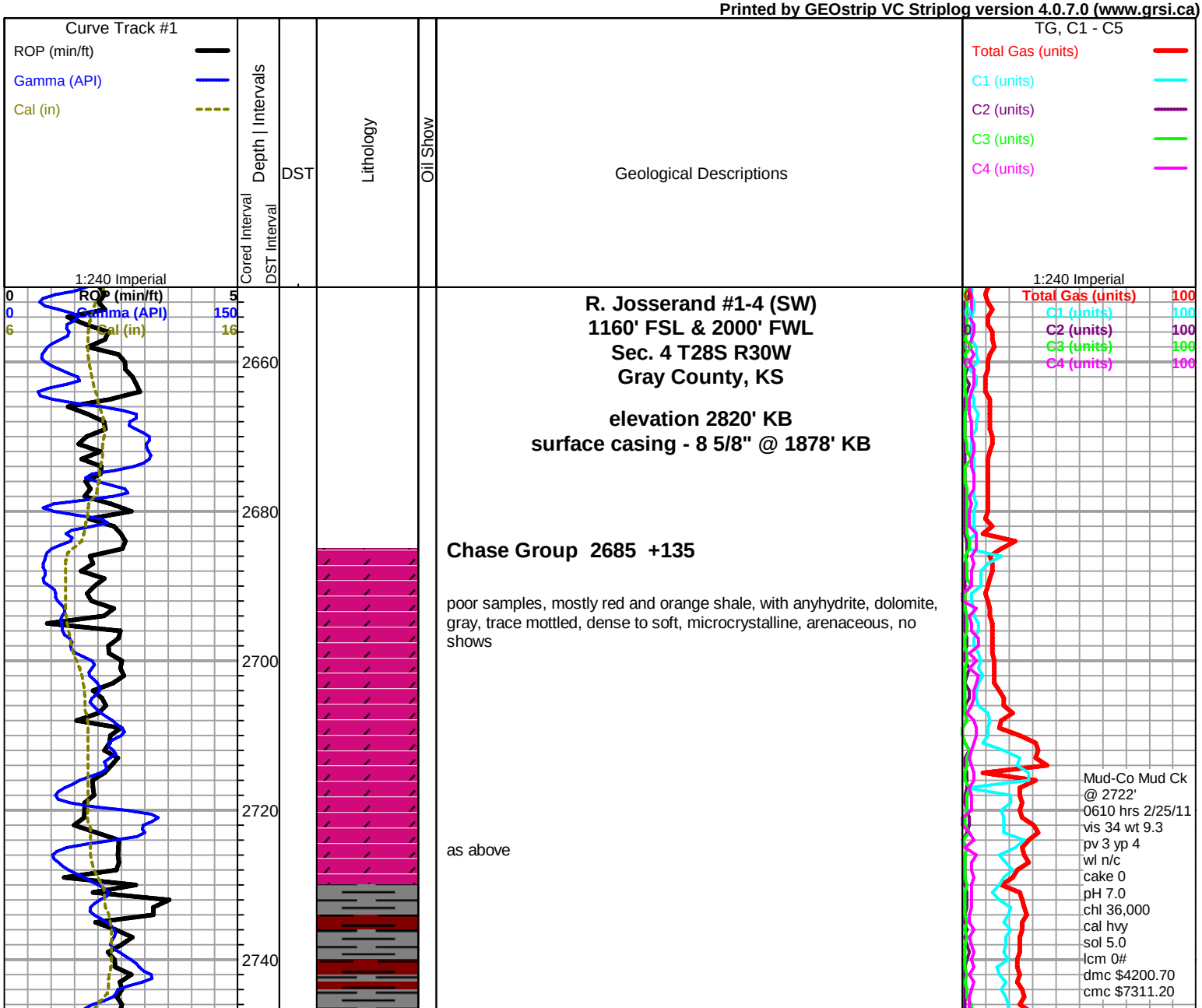
TEXTURE
- C Chalky
- CX Cryptocrystalline
- L Lithogr
- MX MicroxIn

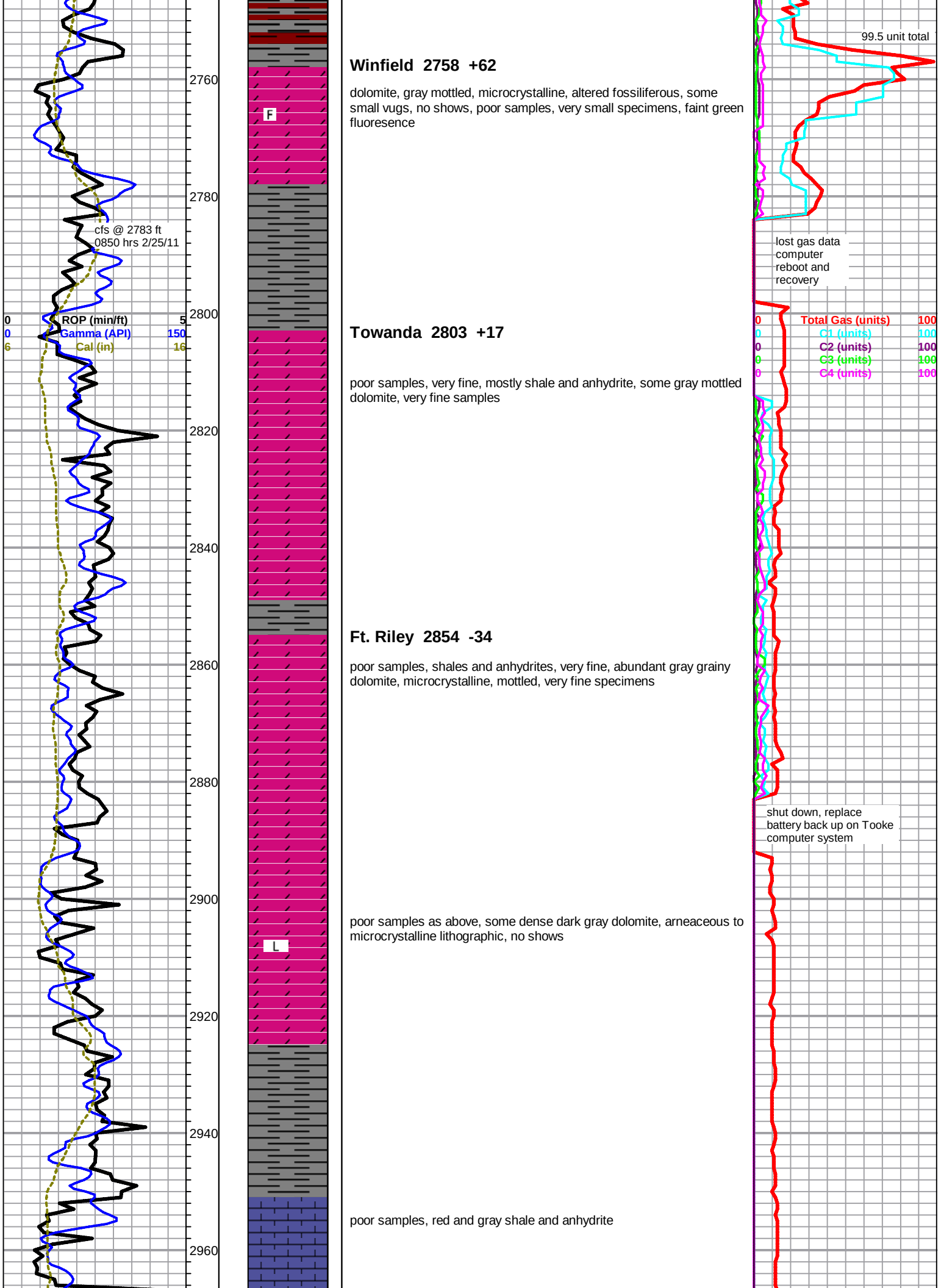
OTHER SYMBOLS

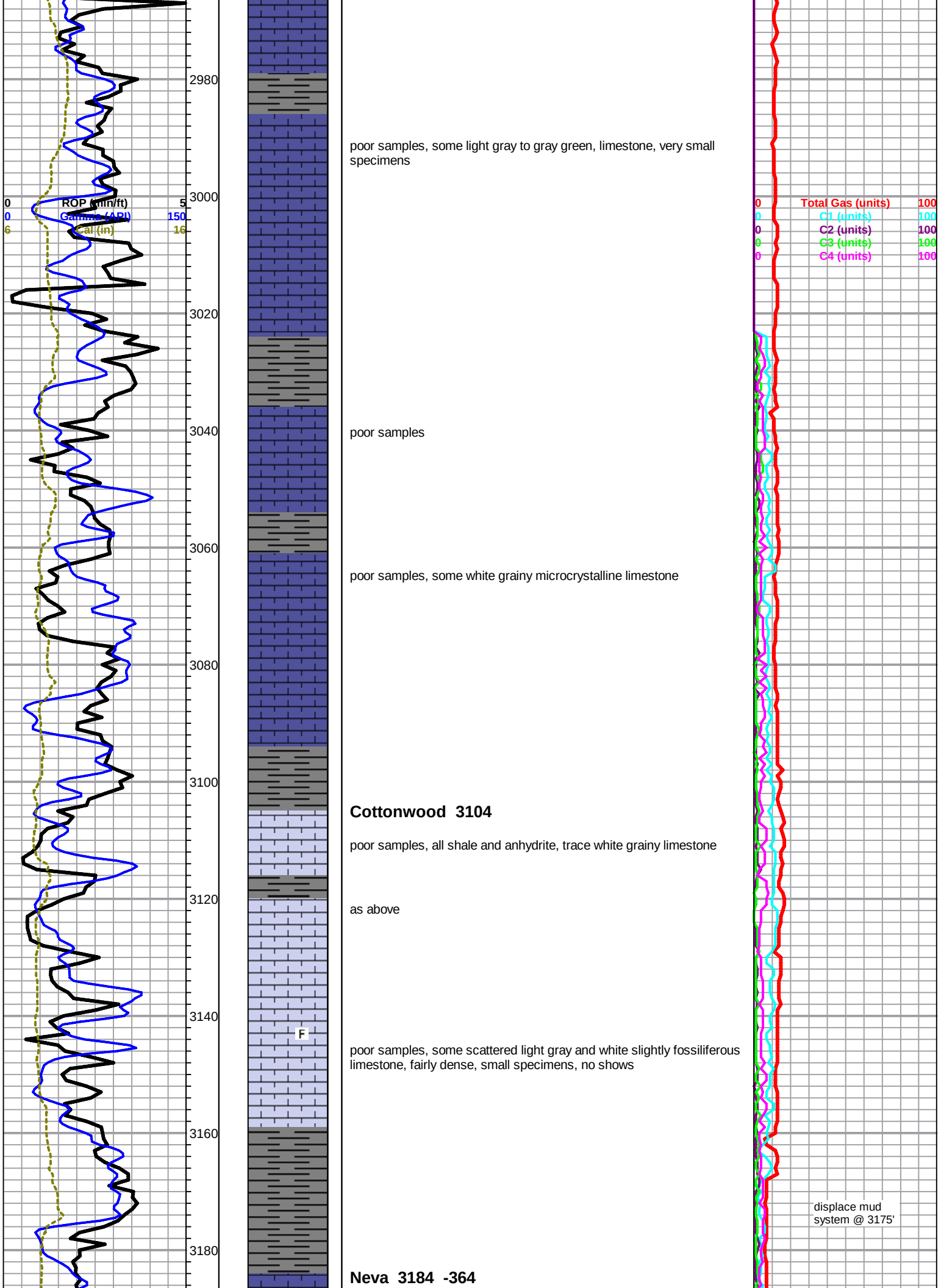
MISC
- Daily Report
- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

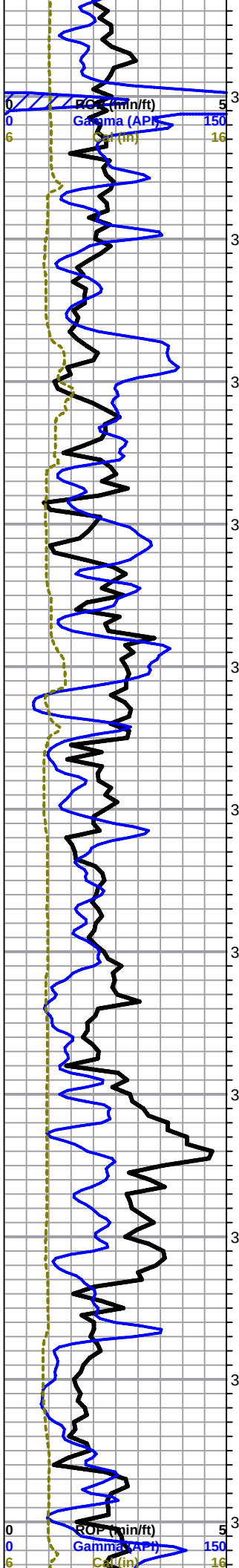
DST
- DST Int
- DST alt

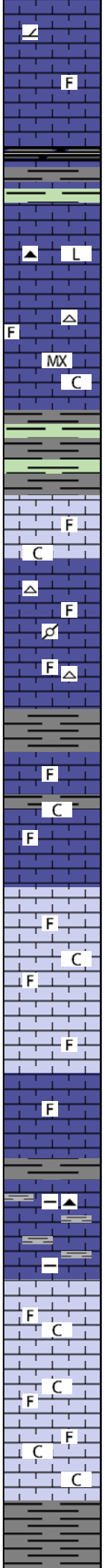
Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)




99.5 unit total
Winfield 2758 +62
dolomite, gray mottled, microcrystalline, altered fossiliferous, some small vugs, no shows, poor samples, very small specimens, faint green fluoresence
F
2760
2780
cfs @ 2783 ft
0850 hrs 2/25/11
lost gas data
computer
reboot and
recovery
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
2800
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
Towanda 2803 +17
poor samples, very fine, mostly shale and anhydrite, some gray mottled dolomite, very fine samples
2820
2840
Ft. Riley 2854 -34
poor samples, shales and anhydrites, very fine, abundant gray grainy dolomite, microcrystalline, mottled, very fine specimens
2860
2880
shut down, replace
battery back up on Tooke
computer system
2900
poor samples as above, some dense dark gray dolomite, arneaceous to microcrystalline lithographic, no shows
L
2920
2940
poor samples, red and gray shale and anhydrite
2960


0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
2980
3000
3020
3040
3060
3080
3100
3120
3140
3160
3180
F
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
poor samples, some light gray to gray green, limestone, very small specimens
poor samples
poor samples, some white grainy microcrystalline limestone
Cottonwood 3104
poor samples, all shale and anhydrite, trace white grainy limestone
as above
poor samples, some scattered light gray and white slightly fossiliferous limestone, fairly dense, small specimens, no shows
displace mud system @ 3175'
Neva 3184 -364





samples clean up in 3200' sample after displacement

limestone, light gray to gray green, microcrystalline, arenaceous, slightly dolomitic, scattered fossiliferous, no shows

limestone as above with limestone, tan to light gray, dense, cherty, lithographic to microcrystalline, flood tan and gray cherts, some fossiliferous

grading to limestone, cream to gray, grainy, some mottled, fossiliferous, chalky in part, still carrying some chert, no shows

limestone, cream to gray, microcrystalline, fossiliferous, grainy, chalky in part, no shows, some fossiliferous and spiculitic cherts, some chalk

limestone, mixed tan to cream and gray, microcrystalline, dense, fossiliferous, some pelletal

Foraker 3290 -470

limestone, white to cream and light gray, micro-cryptocrystalline, slightly fossiliferous, dense and cherty in part, poor visible porosity, no shows, with stingers dark gray cherty limestone, some mottled, abundant chalk in samples

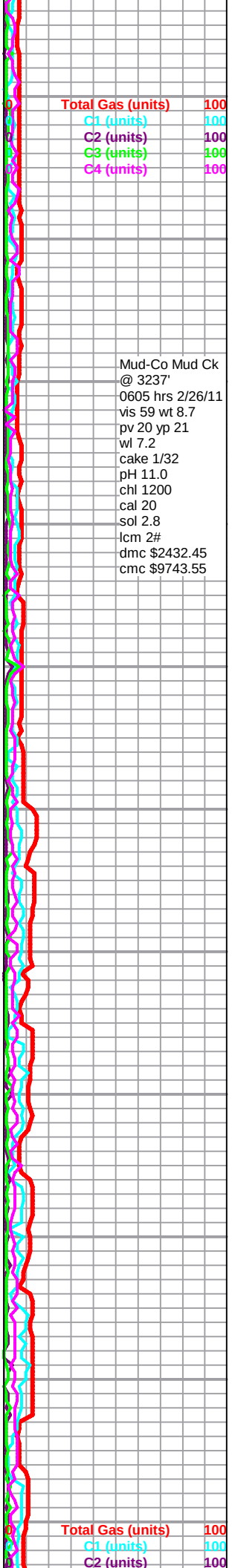
limestone, gray, mottled, very fossiliferous, mostly dense, some chalky, no shows

limestone, mixed gray to dark gray, micro to cryptocrystalline, fossiliferous, mostly dense, no shows

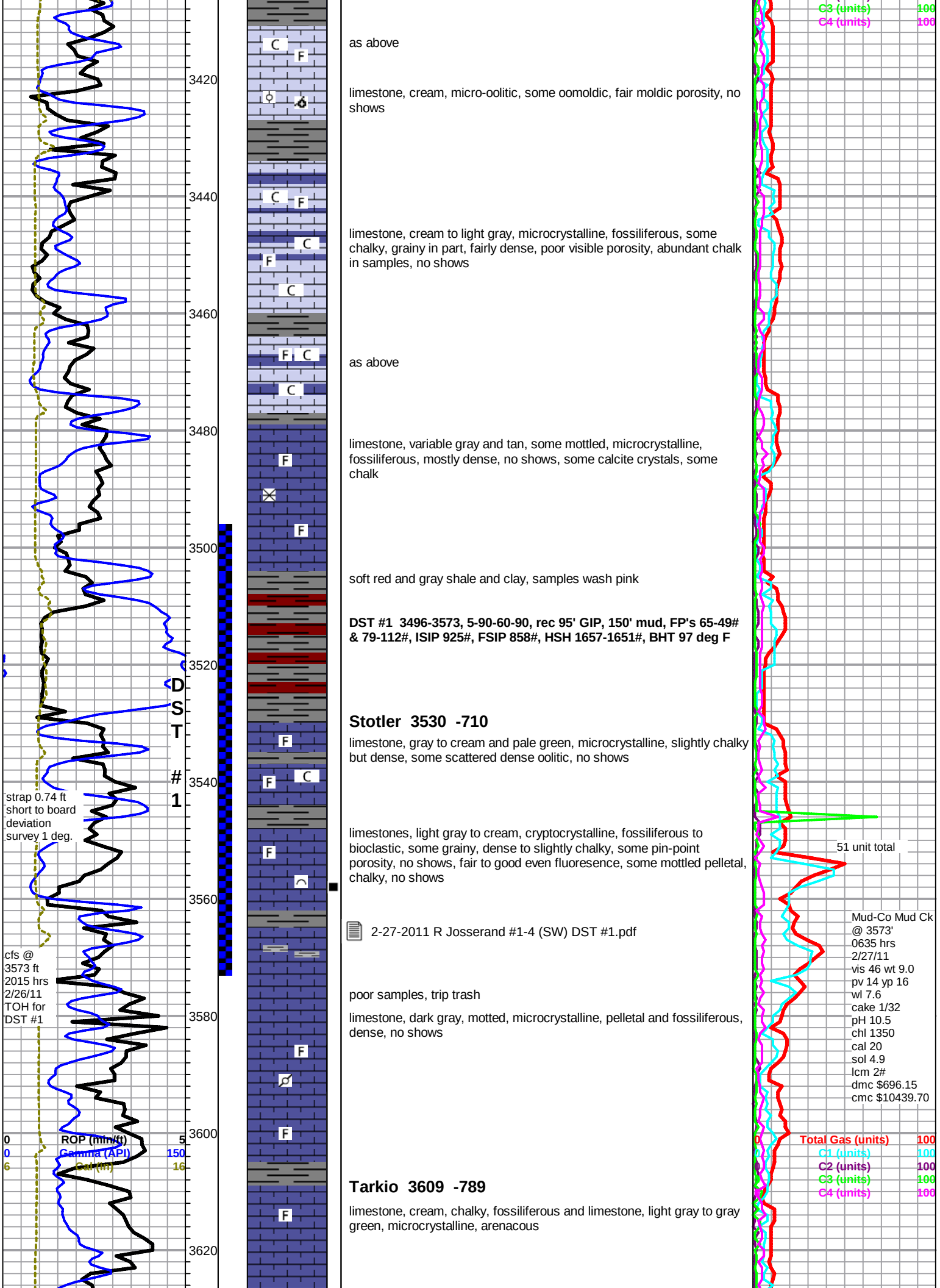
limestone, dark gray, shaley to arenaceous and argillaceous

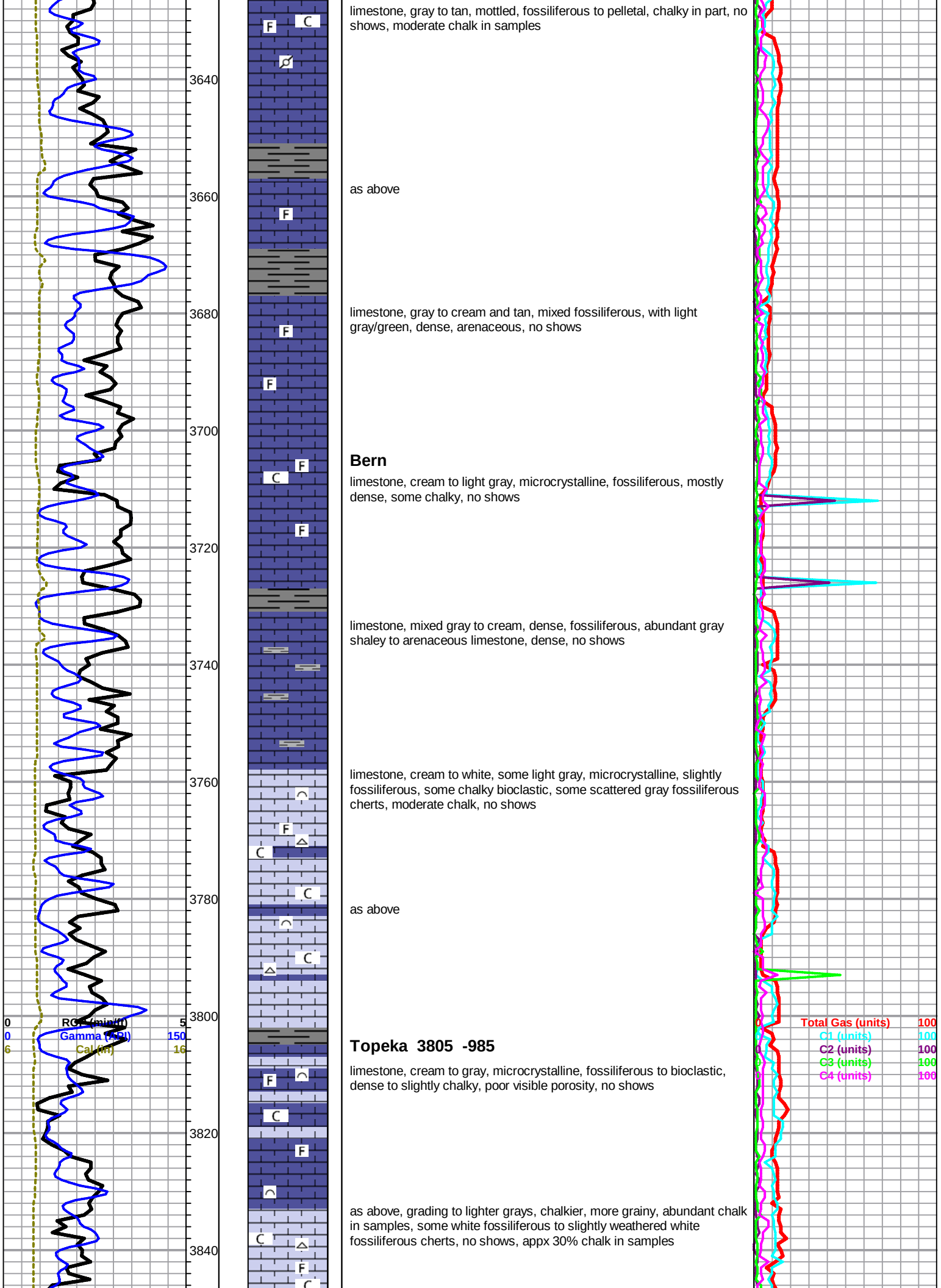
limestone, mixed grainy fossiliferous, very chalky to weathered, abundant chalk in samples, samples wash heavy chalky, no shows

as above



Mud-Co Mud Ck
@ 3237'
0605 hrs 2/26/11
vis 59 wt 8.7
pv 20 yp 21
wl 7.2
cake 1/32
pH 11.0
chl 1200
cal 20
sol 2.8
lcm 2#
dmc $2432.45
cmc $9743.55


3420
3440
3460
3480
3500
3520
3540
3560
3580
3600
3620
DST #1
strap 0.74 ft short to board deviation survey 1 deg.
cfs @ 3573 ft 2015 hrs 2/26/11 TOH for DST #1
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Gal/(in) 16
C3 (units) 100
C4 (units) 100
as above
limestone, cream, micro-oolitic, some oomoldic, fair moldic porosity, no shows
limestone, cream to light gray, microcrystalline, fossiliferous, some chalky, grainy in part, fairly dense, poor visible porosity, abundant chalk in samples, no shows
as above
limestone, variable gray and tan, some mottled, microcrystalline, fossiliferous, mostly dense, no shows, some calcite crystals, some chalk
soft red and gray shale and clay, samples wash pink
DST #1 3496-3573, 5-90-60-90, rec 95' GIP, 150' mud, FP's 65-49# & 79-112#, ISIP 925#, FSIP 858#, HSH 1657-1651#, BHT 97 deg F
Stotler 3530 -710
limestone, gray to cream and pale green, microcrystalline, slightly chalky but dense, some scattered dense oolitic, no shows
limestones, light gray to cream, cryptocrystalline, fossiliferous to bioclastic, some grainy, dense to slightly chalky, some pin-point porosity, no shows, fair to good even fluoresence, some mottled pelletal, chalky, no shows
51 unit total
2-27-2011 R Josserand #1-4 (SW) DST #1.pdf
poor samples, trip trash
limestone, dark gray, motted, microcrystalline, pelletal and fossiliferous, dense, no shows
Mud-Co Mud Ck @ 3573' 0635 hrs 2/27/11 vis 46 wt 9.0 pv 14 yp 16 wl 7.6 cake 1/32 pH 10.5 chl 1350 cal 20 sol 4.9 lcm 2# dmc $696.15 cmc $10439.70
0 Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100
Tarkio 3609 -789
limestone, cream, chalky, fossiliferous and limestone, light gray to gray green, microcrystalline, arenacous



limestone, gray to tan, mottled, fossiliferous to pelletal, chalky in part, no shows, moderate chalk in samples

as above

limestone, gray to cream and tan, mixed fossiliferous, with light gray/green, dense, arenaceous, no shows

Bern

limestone, cream to light gray, microcrystalline, fossiliferous, mostly dense, some chalky, no shows

limestone, mixed gray to cream, dense, fossiliferous, abundant gray shaley to arenaceous limestone, dense, no shows

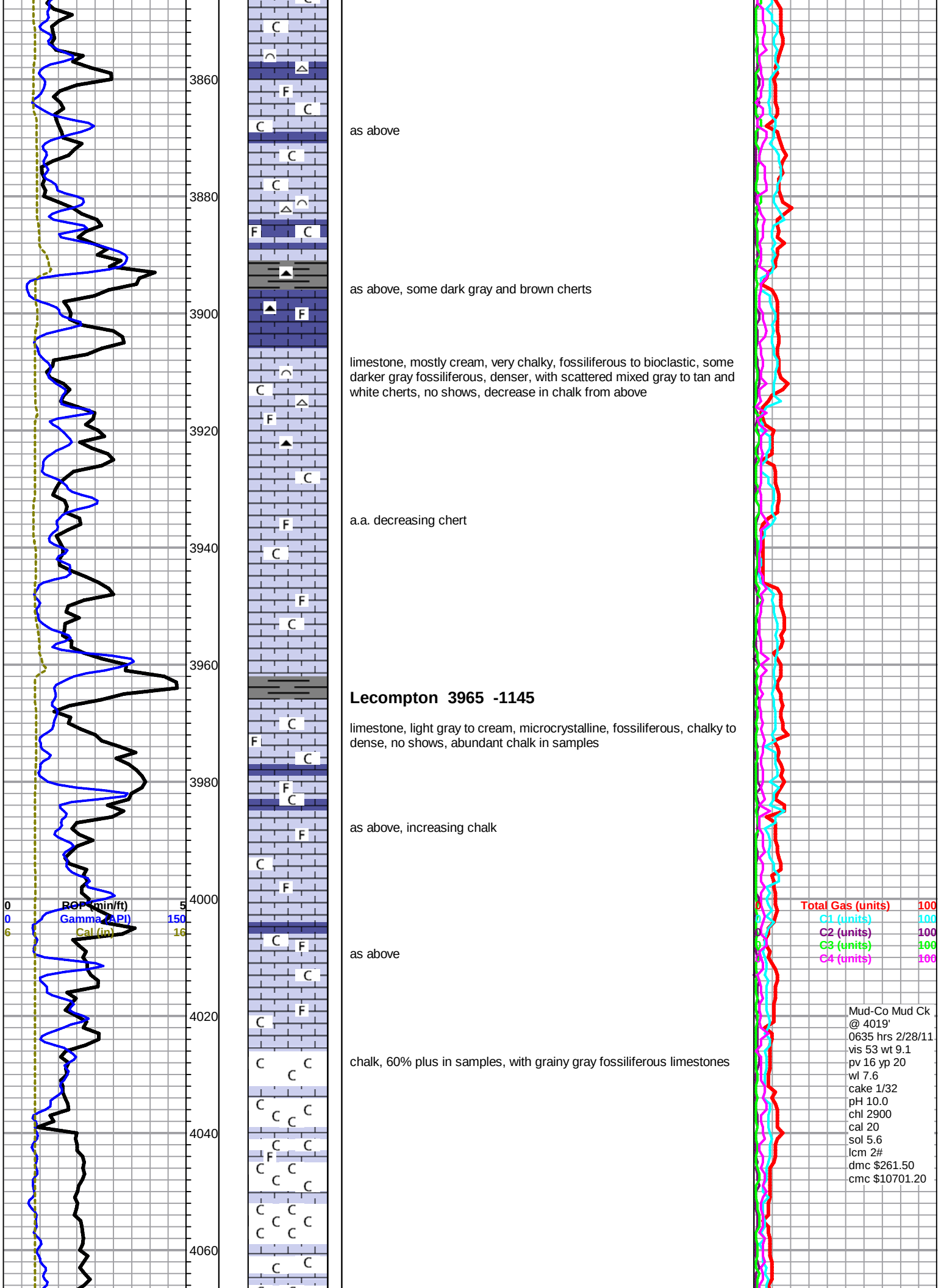
limestone, cream to white, some light gray, microcrystalline, slightly fossiliferous, some chalky bioclastic, some scattered gray fossiliferous cherts, moderate chalk, no shows

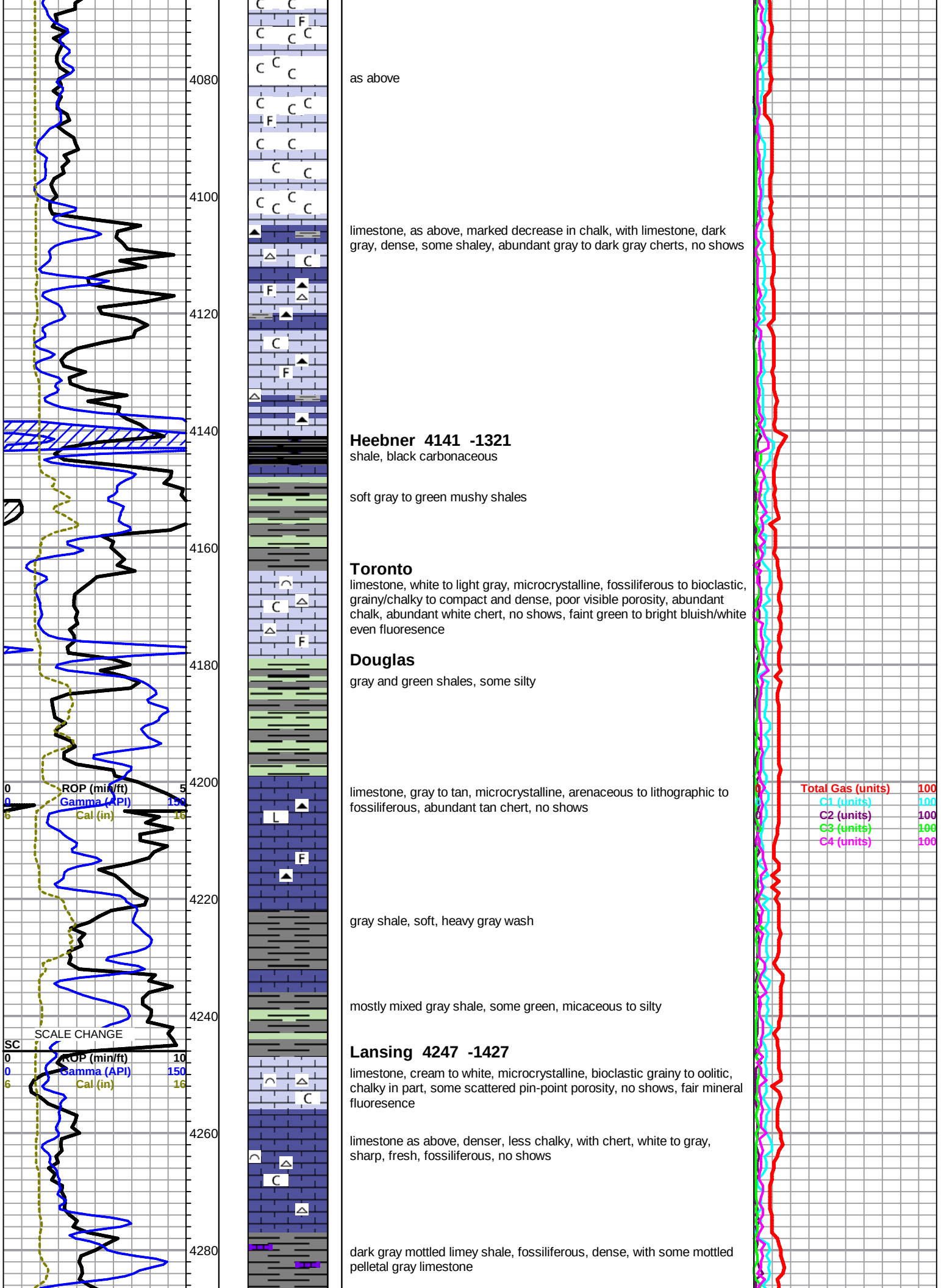
as above

Topeka 3805 -985

limestone, cream to gray, microcrystalline, fossiliferous to bioclastic, dense to slightly chalky, poor visible porosity, no shows

as above, grading to lighter grays, chalkier, more grainy, abundant chalk in samples, some white fossiliferous to slightly weathered white fossiliferous cherts, no shows, appx 30% chalk in samples


3860
3880
3900
3920
3940
3960
3980
4000
4020
4040
4060
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
as above
as above, some dark gray and brown cherts
limestone, mostly cream, very chalky, fossiliferous to bioclastic, some darker gray fossiliferous, denser, with scattered mixed gray to tan and white cherts, no shows, decrease in chalk from above
a.a. decreasing chert
Lecompton 3965 -1145
limestone, light gray to cream, microcrystalline, fossiliferous, chalky to dense, no shows, abundant chalk in samples
as above, increasing chalk
as above
chalk, 60% plus in samples, with grainy gray fossiliferous limestones
Mud-Co Mud Ck
@ 4019'
0635 hrs 2/28/11
vis 53 wt 9.1
pv 16 yp 20
wl 7.6
cake 1/32
pH 10.0
chl 2900
cal 20
sol 5.6
lcm 2#
dmc $261.50
cmc $10701.20



as above

limestone, as above, marked decrease in chalk, with limestone, dark gray, dense, some shaley, abundant gray to dark gray cherts, no shows

Heebner 4141 -1321
shale, black carbonaceous

soft gray to green mushy shales

Toronto
limestone, white to light gray, microcrystalline, fossiliferous to bioclastic, grainy/chalky to compact and dense, poor visible porosity, abundant chalk, abundant white chert, no shows, faint green to bright bluish/white even fluoresence

Douglas
gray and green shales, some silty

limestone, gray to tan, microcrystalline, arenaceous to lithographic to fossiliferous, abundant tan chert, no shows

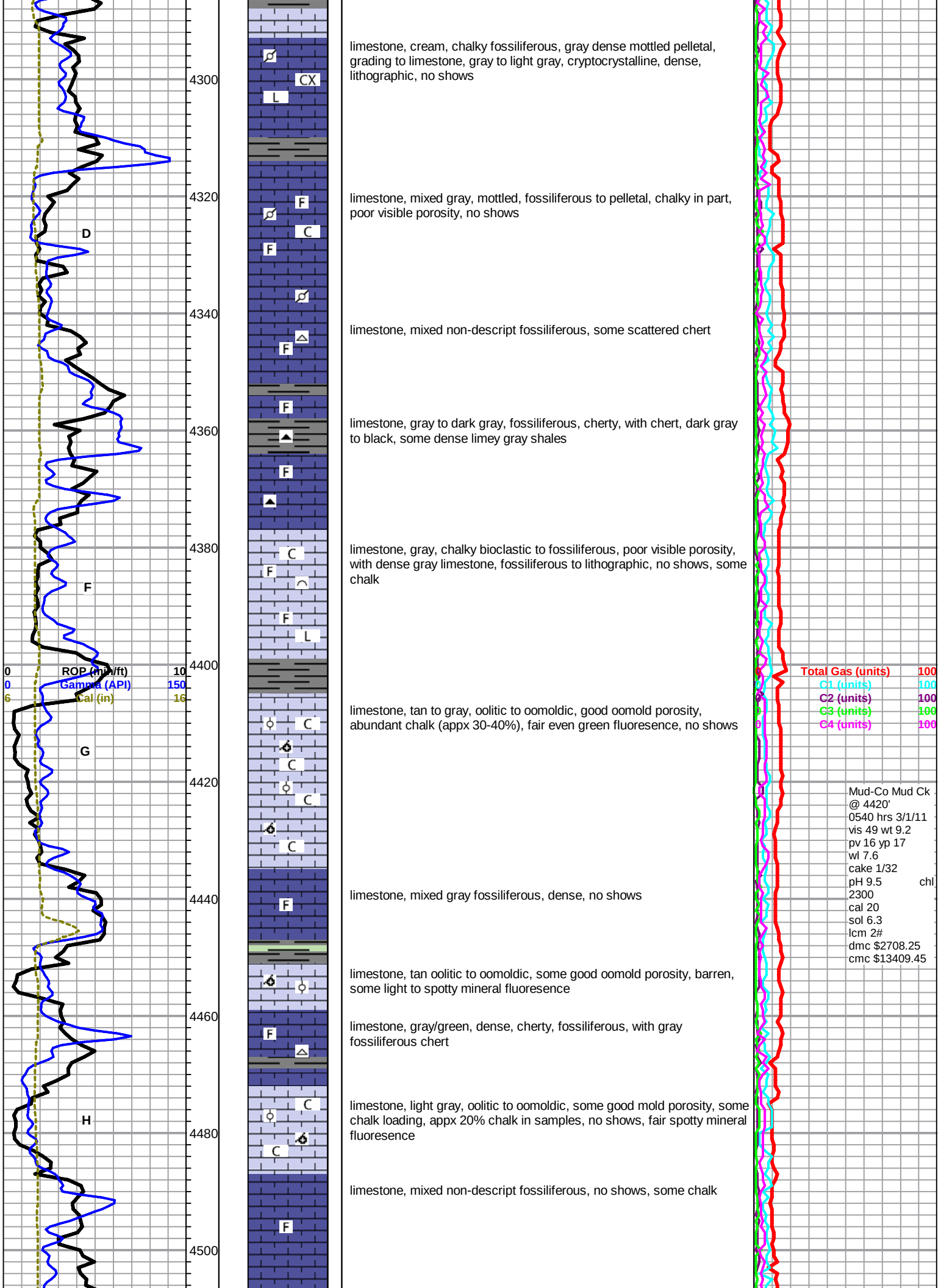
gray shale, soft, heavy gray wash

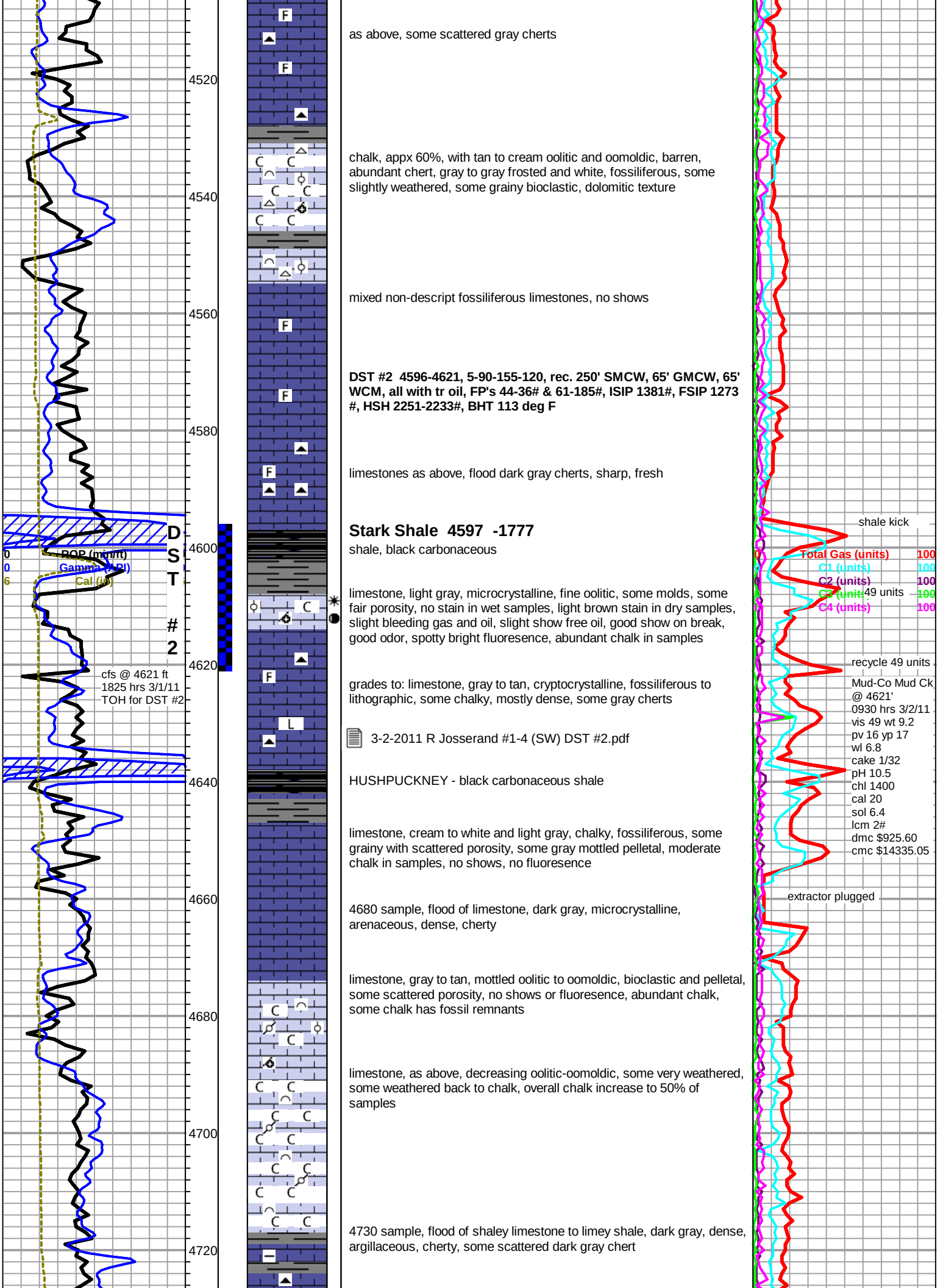
mostly mixed gray shale, some green, micaceous to silty

Lansing 4247 -1427
limestone, cream to white, microcrystalline, bioclastic grainy to oolitic, chalky in part, some scattered pin-point porosity, no shows, fair mineral fluoresence

limestone as above, denser, less chalky, with chert, white to gray, sharp, fresh, fossiliferous, no shows

dark gray mottled limey shale, fossiliferous, dense, with some mottled pelletal gray limestone


0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
4300
4320
4340
4360
4380
4400
4420
4440
4460
4480
4500
D
F
G
H
CX
L
C
F
limestone, cream, chalky fossiliferous, gray dense mottled pelletal, grading to limestone, gray to light gray, cryptocrystalline, dense, lithographic, no shows
limestone, mixed gray, mottled, fossiliferous to pelletal, chalky in part, poor visible porosity, no shows
limestone, mixed non-descript fossiliferous, some scattered chert
limestone, gray to dark gray, fossiliferous, cherty, with chert, dark gray to black, some dense limey gray shales
limestone, gray, chalky bioclastic to fossiliferous, poor visible porosity, with dense gray limestone, fossiliferous to lithographic, no shows, some chalk
limestone, tan to gray, oolitic to oomoldic, good oomold porosity, abundant chalk (appx 30-40%), fair even green fluoresence, no shows
limestone, mixed gray fossiliferous, dense, no shows
limestone, tan oolitic to oomoldic, some good oomold porosity, barren, some light to spotty mineral fluoresence
limestone, gray/green, dense, cherty, fossiliferous, with gray fossiliferous chert
limestone, light gray, oolitic to oomoldic, some good mold porosity, some chalk loading, appx 20% chalk in samples, no shows, fair spotty mineral fluoresence
limestone, mixed non-descript fossiliferous, no shows, some chalk
Total Gas (units)
100
C1 (units)
100
C2 (units)
100
C3 (units)
100
C4 (units)
100
Mud-Co Mud Ck
@ 4420'
0540 hrs 3/1/11
vis 49 wt 9.2
pv 16 yp 17
wl 7.6
cake 1/32
pH 9.5
chl
2300
cal 20
sol 6.3
lcm 2#
dmc $2708.25
cmc $13409.45



as above, some scattered gray cherts

chalk, appx 60%, with tan to cream oolitic and oomoldic, barren, abundant chert, gray to gray frosted and white, fossiliferous, some slightly weathered, some grainy bioclastic, dolomitic texture

mixed non-descript fossiliferous limestones, no shows

DST #2 4596-4621, 5-90-155-120, rec. 250' SMCW, 65' GMCW, 65' WCM, all with tr oil, FP's 44-36# & 61-185#, ISIP 1381#, FSIP 1273 #, HSH 2251-2233#, BHT 113 deg F

limestones as above, flood dark gray cherts, sharp, fresh

Stark Shale 4597 -1777

shale, black carbonaceous

limestone, light gray, microcrystalline, fine oolitic, some molds, some fair porosity, no stain in wet samples, light brown stain in dry samples, slight bleeding gas and oil, slight show free oil, good show on break, good odor, spotty bright fluoresence, abundant chalk in samples

grades to: limestone, gray to tan, cryptocrystalline, fossiliferous to lithographic, some chalky, mostly dense, some gray cherts

3-2-2011 R Josserand #1-4 (SW) DST #2.pdf

HUSHPUCKNEY - black carbonaceous shale

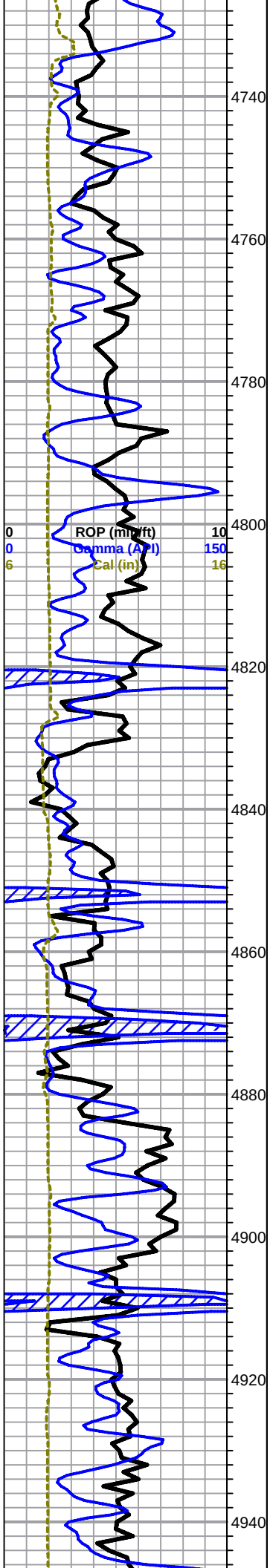
limestone, cream to white and light gray, chalky, fossiliferous, some grainy with scattered porosity, some gray mottled pelletal, moderate chalk in samples, no shows, no fluoresence

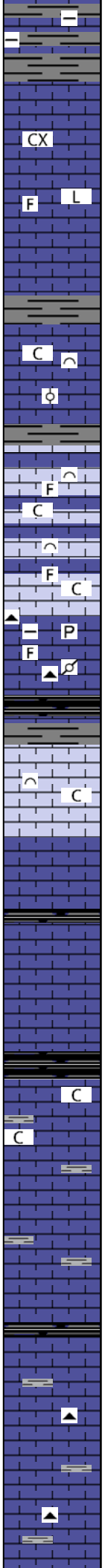
4680 sample, flood of limestone, dark gray, microcrystalline, arenaceous, dense, cherty

limestone, gray to tan, mottled oolitic to oomoldic, bioclastic and pelletal, some scattered porosity, no shows or fluoresence, abundant chalk, some chalk has fossil remnants

limestone, as above, decreasing oolitic-oomoldic, some very weathered, some weathered back to chalk, overall chalk increase to 50% of samples

4730 sample, flood of shaley limestone to limey shale, dark gray, dense, argillaceous, cherty, some scattered dark gray chert





Marmaton 4738 -1918

limestone, cream to light gray, cryptocrystalline, compact lithographic, dense, some scattered cream fossiliferous, trace chert, no shows

limestone, cream to light tan, micrcrystalline, oolitic to bioclastic, mostly dense, some chalky, abundant chalk in samples, no shows

limestone, mixed cream to gray and tan, fossiliferous to bioclastic, some oolitic, chalky to grainy, trace pyritic, scattered chert, some chalk

mixed limestones as above, some darker gray/brown limestone, fossiliferou to pelletal, argillaceous to pyritic, flood tan and brown chert, no shows

Pawnee 4827 -2007

limestone, cream to white, cryptocrystalline, bioclastic, chalky, grainy, poor visible porosity, scattered fossiliferous frosted gray chert, abundant chalk, no shows, few scattered pieces pale green fluoresence

Sample description by Brian Fisher starting at 4860' at 8:30 pm 3-04-11 Note depth number at start of sample description is where the sample was caught for reference to the drilling time depth.

4860 - Ls Lt Gray lith to frag, dnse no vis por, also cherty, Ls med gray to br. lith no vis por. Sh lt grey

4870 - Increase in Ls med gray to br. lith no vis por, No Shows, trace Sh bl carb.

4880- Ls off wh. frag med cal grains both dark and lt gray grains, no vis por. sl cherty in part, Also Chalk white no vis por No shows

Cherokee Shale 4872 (-2052) Sh blk Carb

4890 - Ls off wh. as abv,, Few pieces of tan chert, also chert off wh, dense oolitic in part no vis por, No shows,Sh bl carb,

4900 - Sh dk gray, to lt black, Ls dk br. Lith, to frag no vis por, No shows

4910 - Sh dk gray as abv, Ls off wh, Vfg to Lith,, No vis por, few pieces coarse Xln, Trace Sh black., No shows

4920- Increase in Sh black Carb, as abv, Ls off - med br.wh gran to vfg, , some frag, No vis por. No shows

4930 - Ls med gray med grain to vfg, well cemted, No vis por, few pieces dk br. chert, decrease in shales as abv.

4940 - Increase in Ls med grain as abv, sml amt of chert lt to dk brown, small amt of Sh dk gray to bl.

4950 - Ls med to lt br lith no vis por, Also chert , med br lith. cherty, dnse,

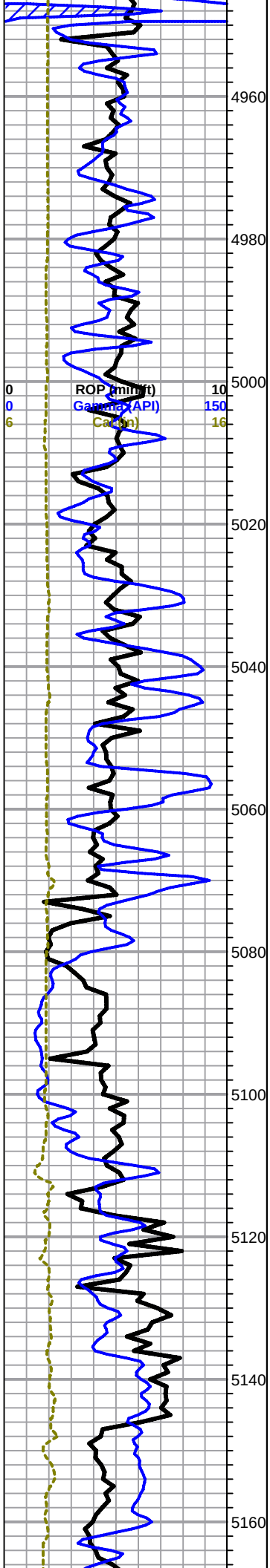
Mud-Co Mud Ck
@ 4810'
0840 hrs 3/3/11
vis 54 wt 9.2
pv 20 yp 22
wl 6.8
cake 1/32
pH 10.0
chl 2200
cal 20
sol 6.3
lcm 2#
dmc $1026.35
cmc $15361.40

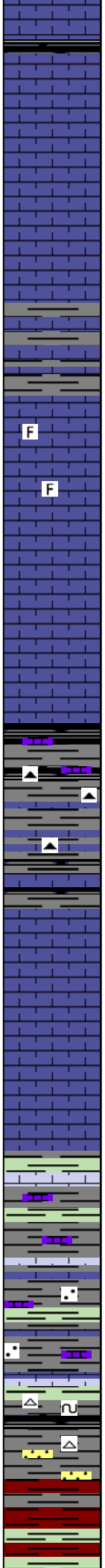
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

shale kick

connection killed kick

probable shale kick recycle





4960 & 4970 Ls med br to lt br , lith, to vfg, no vis por, , Ls off wh, med to fine grain, no vis por,, trace Sh dark gray to black

4980- Ls lt br to tan, lith partly frag, most tight no vis por, few pieces trace inter gran por. no shows.

4990 - Ls med to lt br. lith to med grain, dense, no vis por. few pieces w/ med cal ot coarse xlns, trace poor por, sl foss in part No shows, Also trace Sh bl. carb.

5000 - Ls as abv increase in med to coarse gains in part, very poor vis por , no show, increase in Sh. dk gray.

5010 - Decrese in Ls abv. with increase in Ls lith, Sh dk gr to dk greenish gray, Ls off wh. fxln to med xln, no vis por, no shows.

5020 - All as abv., trace Sh dk greenish gray. increase in Sh dk gray. sli pyritic in part.

5030 - All as abv, Increase of Ls. Lt med ot lt br. ltith to gran. sli foss in part, also with sml frag, All no vis por no shows.

5040 - decrease in Ls. lt med br., gran as abv., Change more to Ls. off white to med br, few pieces to Lt. tan, lith, few sli foss, No vis por,

5050 - Ls off wh, to lt. med br, gran to med gran, few sli foss, no vis por no shows.

5060 - Ls lt br. as abv, some sli foss, increase in Sh. blk, carb (50% of sample)

5070- Sh blk carb as abv, Ls very dk gray, vfxln to frag, some med grain in part, no vis por, no shows, Also dk br Chert, trace Ls black, dense, lith.

5080 - 50% Ls med br. lith to vfgxln, also some frag, no vis por, also sli foss in part, rest is: Sh black carb, Also some Ls. black, sli cherty, very dense, all no vis por, no shows.

5090 - Ls med br to lt br, lith to med grain, no vis por, Ls off wh med to vfg, poss sl por, No shows, trace Sh black to dk brown, Carb.

5100 - Decrease in Ls black as abv no vis por, Ls med br vfxn ot med xln, few fusilindes fossils, no vis por, Ls off to very lt br. to wh. vflxn, to fxln, trace poor vis por, No shows, Trace Sh black, trace Sh med dk green poss sli sandy.

5110 - Increase in Ls of wh. vfxln, to med gran, frag in part, trace green Sh, and Sh bl carb.

5120 - Ls off wh, as abv, increase in frag texture, some med xln to fxln, poor vis por, increase in Sh med gray.

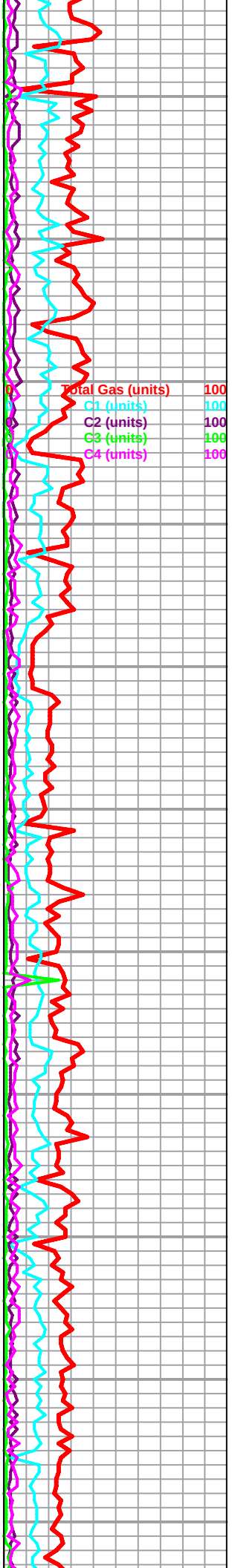
5130 - Ls lt gray green, lith, very dense, no vis por, few pieces have irregular factures filled in solid with darker green mineral- (Glauconite-?), very chalky in part, Also Ls lt brown, med grain, fxln, some very frag, also some vfxln to lith, poss poor porosity in part, Trace Ls very dk brown, vfxln, poss very sli por, trace Sh bl carb., trace Gray geen waxy sh, very note - exact same color as Ls abv., trace Vfxln, well rd & srtd Qtz sand grains in bottom of tray, some were inbedded in gray green shale.

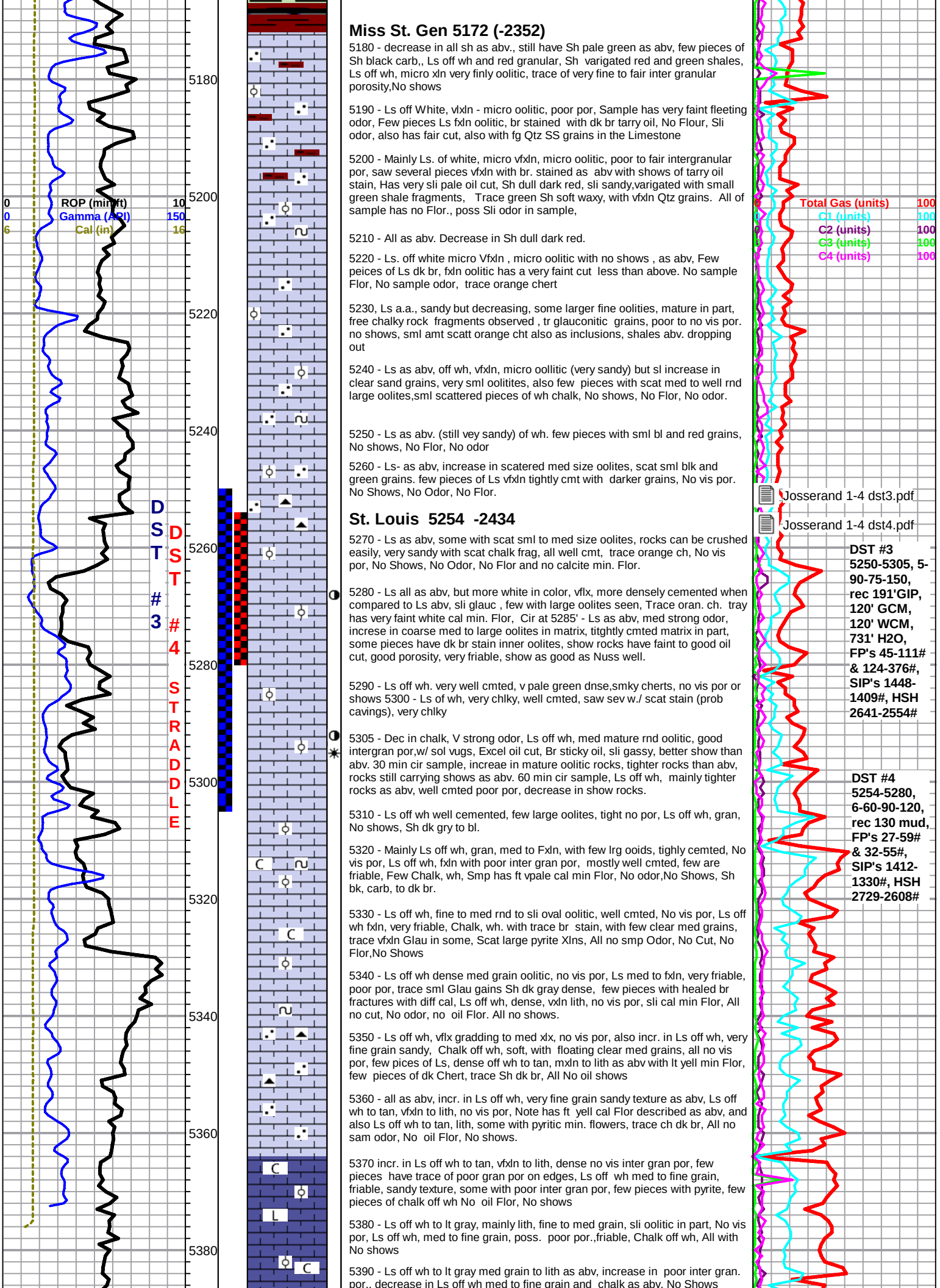
5140 - Ls med gray med lith to med gain, trace greeen glauconite grains, also pyrite,with no vis por, decrease i Ls gray green,chalky in part, as abv, some Sh. gray green, soft also with t fractures or fossils filled in with black Shale or carb material-? All with no show

5150 - Ls off wh. very frag, to gran, with embeded med well rnd Qtz grains, Trace poor por, increase in sh gray green with Carb Foss Frags as abv, Some SS dk gray vfg well cemented well sorted Qtz grains, few free pyrite Xlns, Trace Sh bl carb, Trace off Wh chert, Sh dk gray with black carb material with well rd & soted Qtz grains, no shows

5160 -Sh med to dk gray green, Sh gray, sml amount Sh dk red soft, trace of Chert black, Ls med to dk gray, vfxln to coarse xln, frag in part, well cemented, no vis por, No shows

5170 - All shales as abv with increase in Sh. plale gray green sh. spiltry cleavage, Sh dark gray, Sh dk gray varigated w/ red sh, trace sandy red shale.





Miss St. Gen 5172 (-2352)

5180 - decrease in all sh as abv., still have Sh pale green as abv, few pieces of Sh black carb,, Ls off wh and red granular, Sh varigated red and green shales, Ls off wh, micro xln very finly oolitic, trace of very fine to fair inter granular porosity,No shows

5190 - Ls off White, vlxln - micro oolitic, poor por, Sample has very faint fleeting odor, Few pieces Ls fxln oolitic, br stained with dk br tarry oil, No Flour, Sli odor, also has fair cut, also with fg Qtz SS grains in the Limestone

5200 - Mainly Ls. of white, micro vfxln, micro oolitic, poor to fair intergranular por, saw several pieces vfxln with br. stained as abv with shows of tarry oil stain, Has very sli pale oil cut, Sh dull dark red, sli sandy,varigated with small green shale fragments, Trace green Sh soft waxy, with vfxln Qtz grains. All of sample has no Flor., poss Sli odor in sample,

5210 - All as abv. Decrease in Sh dull dark red.

5220 - Ls. off white micro Vfxln , micro oolitic with no shows , as abv, Few peices of Ls dk br, fxln oolitic has a very faint cut less than above. No sample Flor, No sample odor, trace orange chert

5230, Ls a.a., sandy but decreasing, some larger fine oolities, mature in part, free chalky rock fragments observed , tr glauconitic grains, poor to no vis por. no shows, sml amt scatt orange cht also as inclusions, shales abv. dropping out

5240 - Ls as abv, off wh, vfxln, micro oollitic (very sandy) but sl increase in clear sand grains, very sml oolitites, also few pieces with scat med to well rnd large oolites,sml scattered pieces of wh chalk, No shows, No Flor, No odor.

5250 - Ls as abv. (still vey sandy) of wh. few pieces with sml bl and red grains, No shows, No Flor, No odor

5260 - Ls- as abv, increase in scatered med size oolites, scat sml blk and green grains. few pieces of Ls vfxln tightly cmt with darker grains, No vis por. No Shows, No Odor, No Flor.

St. Louis 5254 -2434

5270 - Ls as abv, some with scat sml to med size oolites, rocks can be crushed easily, very sandy with scat chalk frag, all well cmt, trace orange ch, No vis por, No Shows, No Odor, No Flor and no calcite min. Flor.

5280 - Ls all as abv, but more white in color, vflx, more densely cemented when compared to Ls abv, sli glauc , few with large oolites seen, Trace oran. ch. tray has very faint white cal min. Flor, Cir at 5285' - Ls as abv, med strong odor, increse in coarse med to large oolites in matrix, titghtly cmted matrix in part, some pieces have dk br stain inner oolites, show rocks have faint to good oil cut, good porosity, very friable, show as good as Nuss well.

5290 - Ls off wh. very well cmted, v pale green dnse,smky cherts, no vis por or shows 5300 - Ls of wh, very chlky, well cmted, saw sev w./ scat stain (prob cavings), very chlky

5305 - Dec in chalk, V strong odor, Ls off wh, med mature rnd oolitic, good intergran por,w/ sol vugs, Excel oil cut, Br sticky oil, sli gassy, better show than abv. 30 min cir sample, increae in mature oolitic rocks, tighter rocks than abv, rocks still carrying shows as abv. 60 min cir sample, Ls off wh, mainly tighter rocks as abv, well cmted poor por, decrease in show rocks.

5310 - Ls off wh well cemented, few large oolites, tight no por, Ls off wh, gran, No shows, Sh dk gry to bl.

5320 - Mainly Ls off wh, gran, med to Fxln, with few lrg ooids, tighly cemted, No vis por, Ls off wh, fxln with poor inter gran por, mostly well cmted, few are friable, Few Chalk, wh, Smp has ft vpale cal min Flor, No odor,No Shows, Sh bk, carb, to dk br.

5330 - Ls off wh, fine to med rnd to sli oval oolitic, well cmted, No vis por, Ls off wh fxln, very friable, Chalk, wh. with trace br stain, with few clear med grains, trace vfxln Glau in some, Scat large pyrite Xlns, All no smp Odor, No Cut, No Flor,No Shows

5340 - Ls off wh dense med grain oolitic, no vis por, Ls med to fxln, very friable, poor por, trace sml Glau gains Sh dk gray dense, few pieces with healed br fractures with diff cal, Ls off wh, dense, vxln lith, no vis por, sli cal min Flor, All no cut, No odor, no oil Flor. All no shows.

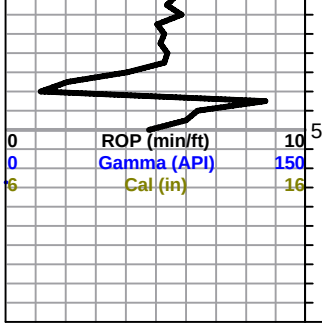
5350 - Ls off wh, vflx gradding to med xlx, no vis por, also incr. in Ls off wh, very fine grain sandy, Chalk off wh, soft, with floating clear med grains, all no vis por, few pices of Ls, dense off wh to tan, mxln to lith as abv with lt yell min Flor, few pieces of dk Chert, trace Sh dk br, All No oil shows

5360 - all as abv, incr. in Ls off wh, very fine grain sandy texture as abv, Ls off wh to tan, vfxln to lith, no vis por, Note has ft yell cal Flor described as abv, and also Ls off wh to tan, lith, some with pyritic min. flowers, trace ch dk br, All no sam odor, No oil Flor, No shows.

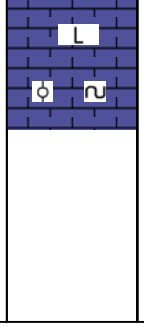
5370 incr. in Ls off wh to tan, vfxln to lith, dense no vis inter gran por, few pieces have trace of poor gran por on edges, Ls off wh med to fine grain, friable, sandy texture, some with poor inter gran por, few pieces with pyrite, few pieces of chalk off wh No oil Flor, No shows

5380 - Ls off wh to lt gray, mainly lith, fine to med grain, sli oolitic in part, No vis por, Ls off wh, med to fine grain, poss. poor por.,friable, Chalk off wh, All with No shows

5390 - Ls off wh to lt gray med grain to lith as abv, increase in poor inter gran. por., decrease in Ls off wh med to fine grain and chalk as abv, No Shows



5400



5400 - All as abv, Also increas in Ls off wh to tan lith, some with well cemented oolitic very dense very lith, samples have very plae yellow min Flor, no vis porosity, few pieces wtih trace sml Glau. grains, sml amout of Chalk off wh, All no Shows 30 min cir: Ls off wh. to tan Lith as abv, has very faint pale yell calcite min Flor., Chalk off white, Ls.off wh to tan, micro xln ot v fg, poor por, Ls tan to off wh, All no shows.

60 min cir: Ls off white as abv, incresae in Ls tan to off wh, lith to very fine grain, very dense brittle, Chert gray and white, sli foss in part, no porosity, rest of sample as abv. 90 all as abv, with mixed cavings No shows,
Driller TD 5400 (-2580), Circulated for 1 1/2 hrs, Started off bottom at 1:00 PM.