

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 #1-5
 Location: Sec. 5 - T28S - R30W
 Pool:
 State: Kansas
 API: 15-069-20338-0000
 Field:
 Country: USA

Scale 1:240 Imperial

Well Name: R. Josserand #1-5
 Surface Location: Sec. 5 - T28S - R30W
 Bottom Location:
 API: 15-069-20338-0000
 License Number: 5822
 Spud Date: 2/5/2011 Time: 12:00 AM
 Region: Gray County
 Drilling Completed: 2/19/2011 Time: 4:45 PM
 Surface Coordinates: 380' FSL & 850' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2810.00ft
 K.B. Elevation: 2823.00ft
 Logged Interval: 2600.00ft To: 5545.00ft
 Total Depth: 5545.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 380' FSL
 E/W Co-ord: 850' FEL

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: 2/5/2011 Time: 12:00 AM
 TD Date: 2/19/2011 Time: 4:45 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2823.00ft Ground Elevation: 2810.00ft
 K.B. to Ground: 13.00ft

NOTES

Based on the results of Drill Stem Tests and Electrical Log analysis, it was recommended and agreed upon by all parties that the R. Josserand #1-5 be plugged and abandoned as a dry test.

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

Falcon Exploration, Inc.

Daily Drilling Report

DATE	7:00 AM DEPTH	REMARKS
2/11/2011		Geologist Keith Reavis on location @ 1330 hrs, 2811 ft., drilling ahead Towanda, Ft. Riley
2/12/2011	3244	drilling ahead, Cottonwood, Neva, Foraker, Stotler, Tarkio
2/13/2011	3840	drilling ahead, Tarkio, Bern, Topeka, Lecompton, Heebner, Douglas
2/14/2011	4365	drilling ahead, Lansing, lower LKC, Stark
2/15/2011	4776	drilling ahead, lower LKC, Marmaton, Pawnee, Cherokee
2/16/2011	5050	drilling Cherokee, stop, run short trip @ 5050', resume drilling 0825 hrs cut Morrow, show in Morrow, warrants DST, TOH for DST
2/17/2011	5142	conducting DST #1, successful test, TIH w/bit, resume drilling
2/18/2011	5347	drilling Miss, show in St. Louis warrants DST, TOH for DST #2, conducting DST #2, successful test, TIH w/bit, resume drilling
2/19/2011	5443	drilling ahead, Mississippian, TD in Salem 5545' @ 1645 hrs, the log truck late, breakdown, rig up loggers, conduct logging operations
2/20/2011	5545	complete logging operations, geologist off location @ 0620 hrs

Falcon Exploration, Inc.

Well Comparison Sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
R. Josserand #1-5 380' FSL & 850' FEL Sec. 5 T28S R30W					Lanterman #1-8 2030' FNL & 370' FEL Sec. 8 T28S R30W				K. Dirks #1-8 2090' FSL & 440' FEL Sec. 8 T28S R30W			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Chase	2692	131	2690	133	2684	137	-6	-4	2683	136	-5	-3
Winfield	2762	61	2761	62	2755	66	-5	-4	2752	67	-6	-5
Towanda	2808	15	2806	17	2798	23	-8	-6	2796	23	-8	-6
Ft. Riley	2863	-40	2861	-38	2853	-32	-8	-6	2851	-32	-8	-6
Neva	3185	-362	3186	-363	3176	-355	-7	-8	3172	-353	-9	-10
Foraker	3295	-472	3295	-472	3286	-465	-7	-7	3290	-471	-1	-1
Stotler	3541	-718	3541	-718	3532	-711	-7	-7	3530	-711	-7	-7

Tarkio	3618	-795	3616	-793	3603	-782	-13	-11	3602	-783	-12	-10
Topeka	3814	-991	3812	-989	3804	-983	-8	-6	3800	-981	-10	-8
Lecompton	3976	-1153	3976	-1153	3967	-1146	-7	-7	3965	-1146	-7	-7
Heebner	4151	-1328	4150	-1327	4146	-1325	-3	-2	4146	-1327	-1	0
Lansing	4252	-1429	4249	-1426	4249	-1428	-1	2	4251	-1432	3	6
Stark	4614	-1791	4613	-1790	4606	-1785	-6	-5	4610	-1791	0	1
Marmaton	4746	-1923	4746	-1923	4743	-1922	-1	-1	4741	-1922	-1	-1
Pawnee	4843	-2020	4843	-2020	4837	-2016	-4	-4	4841	-2022	2	2
Cherokee	4889	-2066	4887	-2064	4881	-2060	-6	-4	4885	-2066	0	2
Morrow	5095	-2272	5094	-2271	5089	-2268	-4	-3	5093	-2274	2	3
Miss Chester	5136	-2313	5138	-2315	5151	-2330	17	15	5144	-2325	12	10
Miss St. Gen.	5215	-2392	5210	-2387	5244	-2423	31	36	5216	-2397	5	10
St. Louis B por	5326	-2503	5324	-2501	5345	-2524	21	23	5342	-2523	20	22
Salem	5477	-2654	5473	-2650					5497	-2678	24	28
Total Depth	5545	-2722	5547	-2724	5406	-2585	-137	-139	5528	-2709	-13	-15

Drill Stem Test #1

RICKETTS TESTING

(620) 326-5830

Page 1

Company **Falcon Exploration, Inc.**
 Address **125 N. Market, Ste. 1252**
 CSZ **Wichita, KS 67202**
 Attn. **Keith Reavis**

Lease Name **Robert Josserand (SE)**
 Lease # **1-5**
 Legal Desc **NE-SW-SE-SE** Job Ticket **2140**
 Section **5** Range **39W**
 Township **28S**
 County **Gray** State **KS**
 Drilling Cont **Sterling Drilling Co. Rig #5**

Comments **Legal Description Feet: 380' FSL & 850' FEL**

GENERAL INFORMATION

Test # **1** Test Date **2/17/2011**
 Tester **Tim Venters**
 Test Type **Conventional Bottom Hole Successful Test**

Chokes **3/4** Hole Size **7 7/8**
 Top Recorder # **W1119**
 Mid Recorder # **W1022**
 Bott Recorder # **13310**

of Packers **2.0** Packer Size **6 3/4**

Mileage **236** Approved By
 Standby Time **0**
 Extra Equipmnt **Jars & Safety joint**
 Time on Site **7:40 PM**
 Tool Picked Up **10:25 PM**
 Tool Layed Dwn **7:20 AM**

Mud Type **Gel Chem**
 Mud Weight **9.3** Viscosity **50.0**
 Filtrate **7.6** Chlorides **1200**

Elevation **2810.00** Kelley Bushings **2823.00**

Drill Collar Len **337.0**
 Wght Pipe Len **0**

Start Date/Time **2/17/2011 9:25 PM**
 End Date/Time **2/18/2011 7:26 AM**

Formation **Morrow**
 Interval Top **5086.0** Bottom **5142.0**
 Anchor Len Below **56.0** Between **0**
 Total Depth **5142.0**

Blow Type **Weak surface blow throughout the intial flow period. Very weak surface blow throughout the final flow period. Times: 5, 90, 45, 92.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
20	Mud with spots of oil	0% 0ft	trace	0% 0ft	100% 20ft

DST Fluids **0**



Date	Time	Pressure	Temp	
IH	2/18/2011 12:44:30 AM	3.325	2428.06	113.487
IF1	2/18/2011 12:49:10 AM	3.402778	66.978	113.526
IF2	2/18/2011 12:55:50 AM	3.513889	34.49	114.113

Initial Hydro-static
 Initial Flow (1)
 Initial Flow (2)

IS	2/18/2011 2:24:50 AM	4.997222	102.159	116.296	Initial Shut-In
FF1	2/18/2011 2:25:20 AM	5.005556	57.192	116.32	Final Flow (1)
FF2	2/18/2011 3:11:40 AM	5.777778	31.154	117.432	Final Flow (2)
FS	2/18/2011 4:42:40 AM	7.294444	45.16	118.455	Final Shut-In
FH	2/18/2011 4:47:30 AM	7.375	2407.003	120.318	Final Hydro-static

Drill Stem Test #2

RICKETTS TESTING

(620) 326-5830

Page 1

Company Falcon Exploration, Inc.	Lease Name Robert Josserand (SE)	
Address 125 N. Market, Ste. 1252	Lease # 1-5	
CSZ Wichita, KS 67202	Legal Desc NE-SW-SE-SE	Job Ticket 2140
Attn. Keith Reavis	Section 5	Range 39W
	Township 28S	
	County Gray	State KS
	Drilling Cont Sterling Drilling Co. Rig #5	

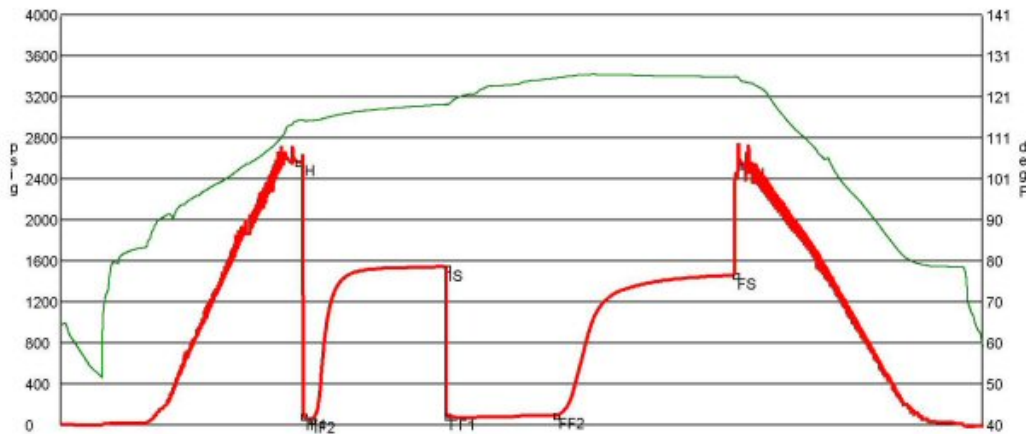
Comments **Legal Description Feet: 380' FSL & 850' FEL**

GENERAL INFORMATION

Test # 2	Test Date	2/18/2011	Chokes	3/4	Hole Size	7 7/8
Tester	Tim Venters		Top Recorder #	W1119		
Test Type	Conventional Bottom Hole Successful Test		Mid Recorder #	W1022		
# of Packers	2.0	Packer Size	6 3/4	Bott Recorder #	13310	
Mud Type	Gel Chem		Mileage	236	Approved By	
Mud Weight	9.3	Viscosity	62.0	Standby Time	0	
Filtrate	7.2	Chlorides	3800	Extra Equipmnt	Jars & Safety joint	
Drill Collar Len	337.0			Time on Site	7:45 AM	
Wght Pipe Len	0			Tool Picked Up	9:05 AM	
				Tool Layed Dwn	6:45 PM	
Formation	Miss.-St. Louis		Elevation	2810.00	Kelley Bushings	2823.00
Interval Top	5285.0	Bottom	5347.0	Start Date/Time	2/18/2011 8:27 AM	
Anchor Len Below	62.0	Between	0	End Date/Time	2/18/2011 6:47 PM	
Total Depth	5347.0					
Blow Type	Weak surface blow at the start of the intial flow period, building to 1/2 inch. Very weak surface blow at the start of the final flow period, building to 5 inches. Times: 5, 90, 75, 120.					

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
120	Very slight oil cut mud	0% 0ft	3% 3.6ft	0% 0ft	97% 116.4ft



Date	Time	Pressure	Temp	
2/18/2011 11:05:30 AM	2.641667	2568.078	114.99	Initial Hydro-static
2/18/2011 11:09:20 AM	2.705556	88.844	115.061	Initial Flow (1)
2/18/2011 11:14:50 AM	2.797222	58.474	115.005	Initial Flow (2)
2/18/2011 12:45:30 PM	4.308333	1539.727	119.011	Initial Shut-In
2/18/2011 12:46:10 PM	4.319444	89.535	118.85	Final Flow (1)
2/18/2011 1:59:20 PM	5.538889	96.124	125.441	Final Flow (2)
2/18/2011 4:00:10 PM	7.552778	1463.008	125.745	Final Shut-In
2/18/2011 4:05:20 PM	7.638889	2541.144	124.681	Final Hydro-static

ROCK TYPES

Sand	Lmst fw<7	shale, gray	Shale
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	Congr.		Lmst fw>7		shale, gry		Carbon Sh		Ss
	Dolprim		shale, grn		shale, red				
	Dolsec								

ACCESSORIES

MINERAL

- ⊥ Calcareous
- ▲ Chert, dark
- ⊘ Dolomitic
- ∞ Glaucanite
- ✕ Mineral Crystals
- ≡ Nodules
- P Pyrite
- Sandy
- △ Chert White
- Argillaceous/Shale

FOSSIL

- ⊂ Bioclastic or Fragmental
- ⌒ Bryozoa
- F Fossils < 20%
- ⊕ Oolite
- ⊗ Pellets
- ⌘ Plant Remains
- ⊕ Oomoldic

STRINGER

- Dolomite
- Limestone
- Sandstone
- Shale
- green shale
- red shale

TEXTURE

- C Chalky
- CX Cryptocrystalline
- e Earthy
- L Lithogr

OTHER SYMBOLS

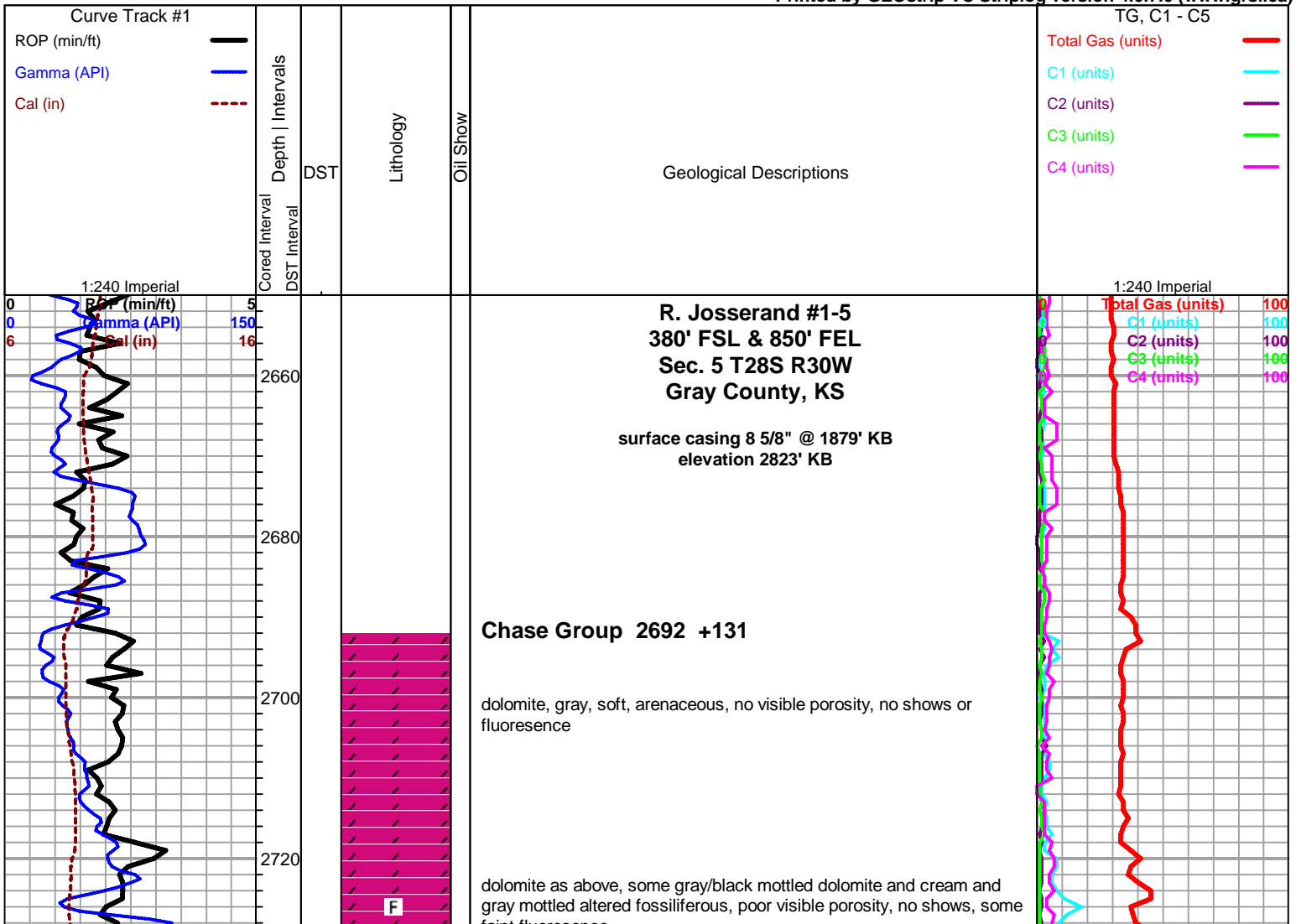
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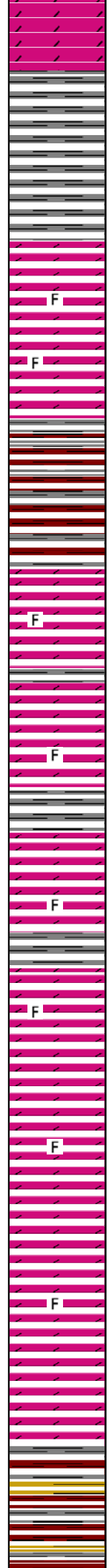
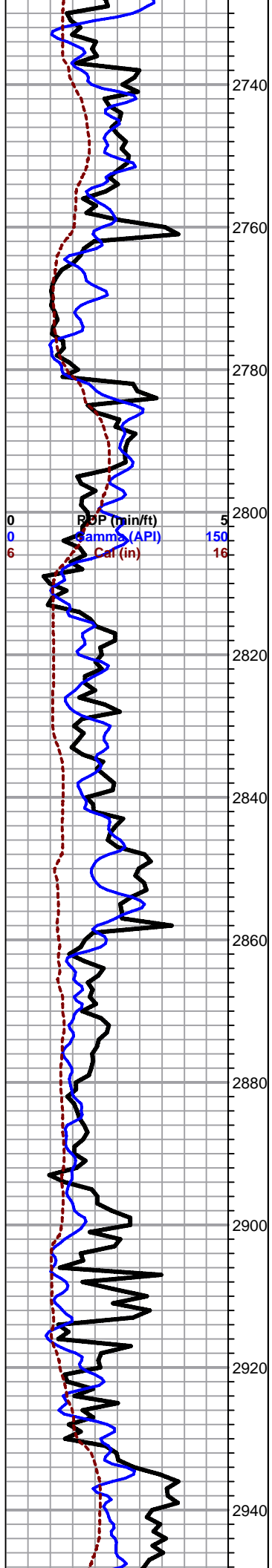
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- Digital Photo
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- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

DST

- DST Int
- DST alt

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Winfield 2762 +61

dolomite, gray mottled, microcrystalline, altered fossiliferous, some small vugs, no shows, some cream microcrystalline, dense, no shows, fairly even light green fluorescence in tray

flood brick red to orange shales with abundant gray mixed fossiliferous cherts

Towanda 2808 +15

dolomite, mixed gray, mottled fossiliferous to arenaceous, poor visible porosity, some scattered chert, no shows

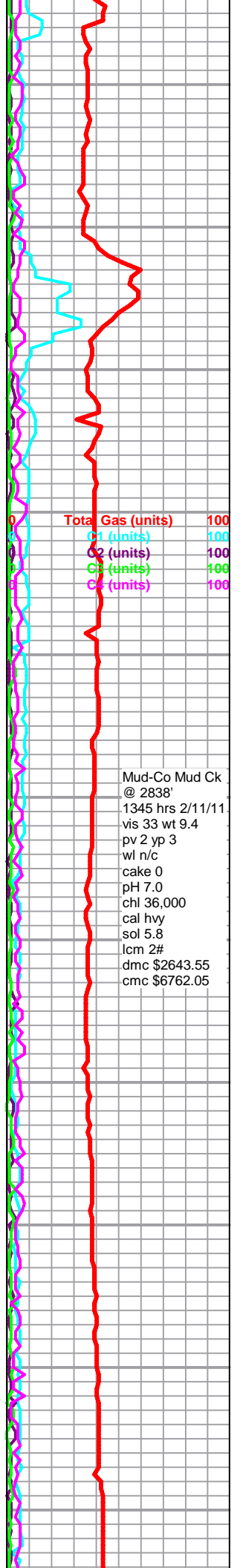
as above

Ft. Riley 2863 -40

dolomite, gray, mottled, microcrystalline, altered fossiliferous, some small vugs, dense, no shows or fluorescence

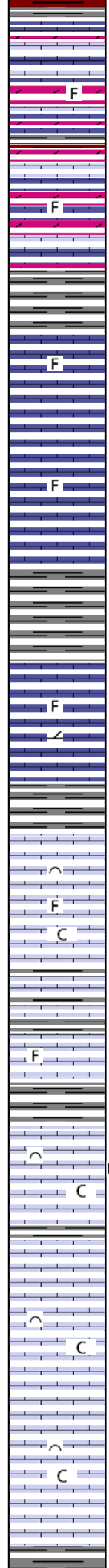
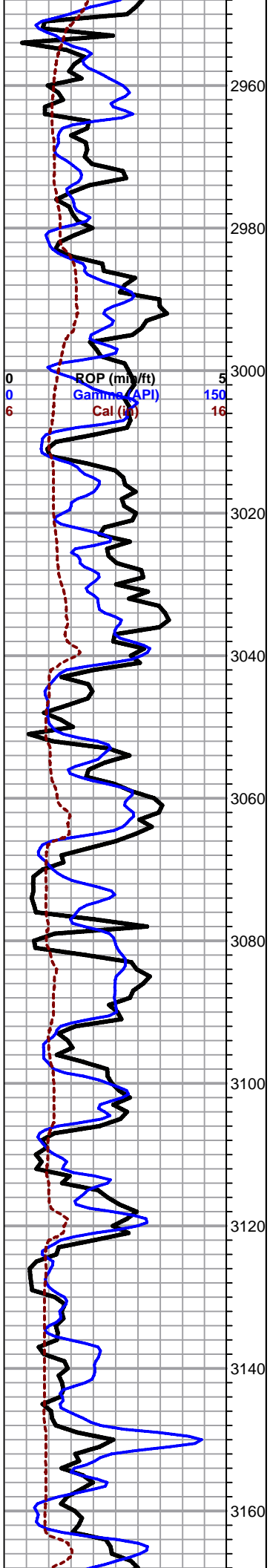
dolomite, as above

variable shales



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

Mud-Co Mud Ck
@ 2838'
1345 hrs 2/11/11
vis 33 wt 9.4
pv 2 yp 3
wl n/c
cake 0
pH 7.0
chl 36,000
cal hvy
sol 5.8
lcm 2#
dmc \$2643.55
cmc \$6762.05



dolomite as above, with dolomite, dark gray, microcrystalline, arenaceous, limestones, cream to light gray, soft, chalky in part, microcrystalline, fossiliferous to argillaceous, abundant shale

as above, some scattered dark gray cherts

poor samples, mostly shale and anhydrite, trace light gray fossiliferous limestone

poor samples, mostly shales and anhydrite, some microcrystalline dense dolomitic limestone, some dense white to light gray fossiliferous limestone

poor samples, mostly shale and anhydrite, with limestone, white, microcrystalline, fossiliferous to bioclastic, chalky in part, no shows, fair blue/white fluorescence

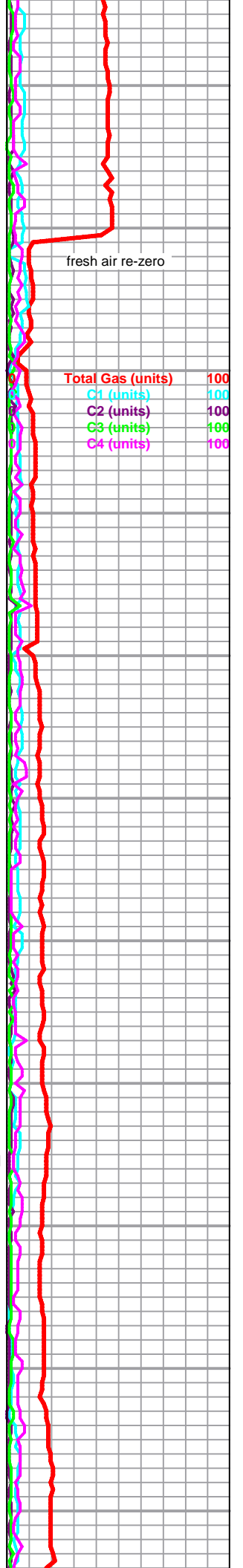
as above

Cottonwood 3106

limestone, white, bioclastic, chalky in part, some scattered interclast and pinpoint porosity, no shows, fairly bright blueish/white fluorescence

limestone, as above, some fairly dense with few vugs, still carrying mostly mixed shale and anhydrite in samples

as above, poor samples



displace mud system @ 3175'

Neva 3185 -362

samples clean up in 3220 sample, limestone, pale green, dolomitic, microcrystalline, some slightly glauconitic, with limestone, light gray, chalky to dense, fossiliferous, no shows, scattered smokey gray to opaque vitreous cherts

dolomitic limestone and limestone with chert as above, some green argillaceous dense shale

flood brick red soft clay and shale

limestone, gray mottled, chalky, pelletal, with limestone, tan to gray, mottled, fossiliferous, dense, abundant chalk in samples, poor visible porosity, no shows

Foraker 3295 -472

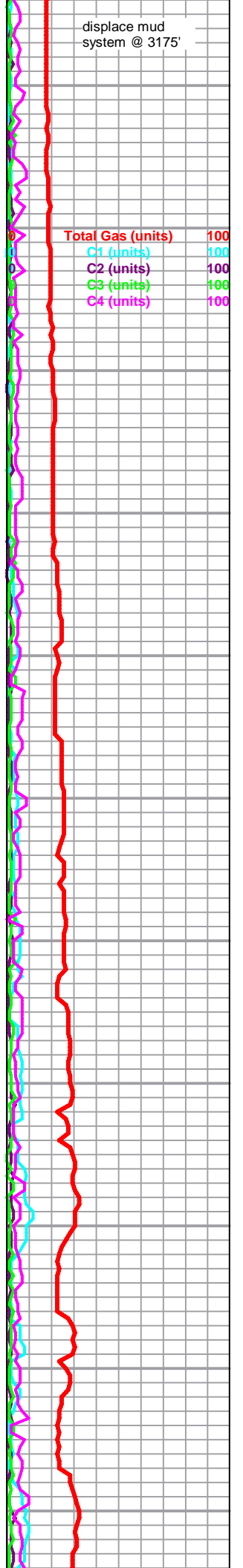
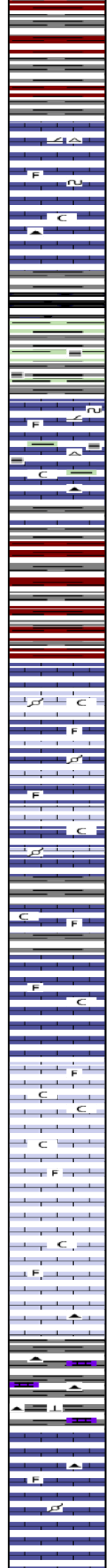
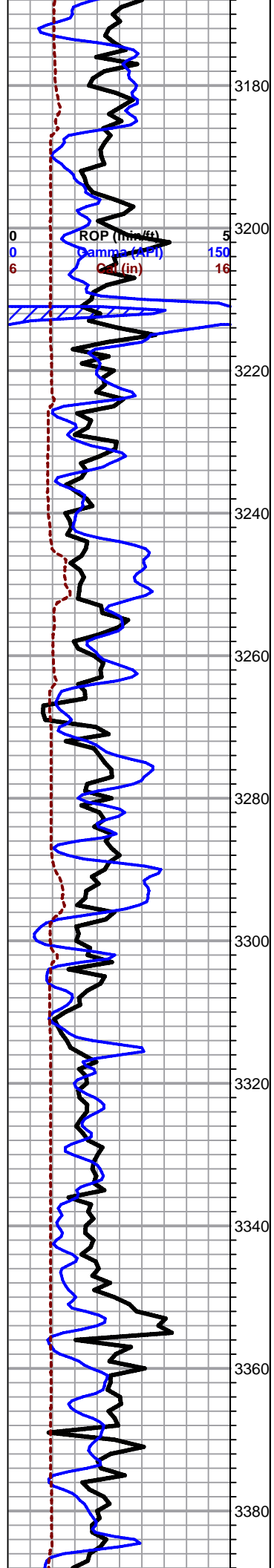
limestone, white to cream and light gray, micro-cryptocrystalline, slightly fossiliferous, dense and cherty in part, poor visible porosity, no shows, abundant chalk in samples

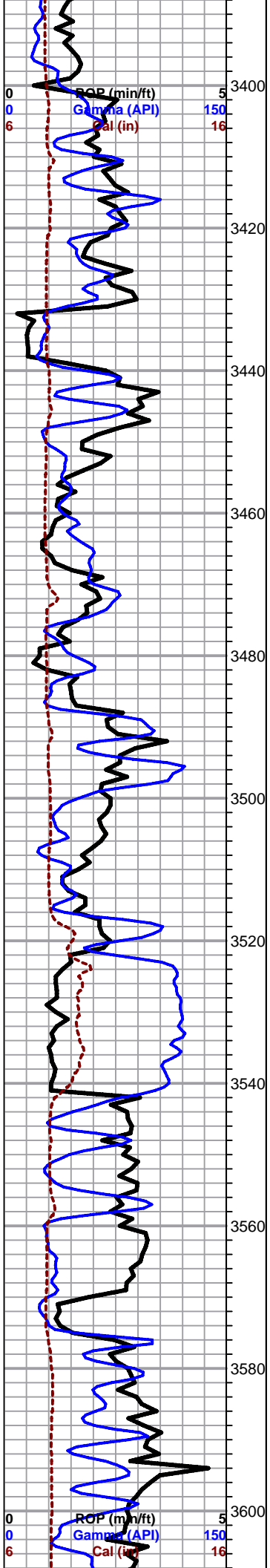
limestone, gray mottled, fossiliferous, some very weathered, abundant limestone weathered back to chalk with fossil remnants, poor visible porosity, no shows

as above, decreasing chalk

dark gray cherty limestone, gray and black limey dense shale, abundant black and gray chert, some scattered gray fossiliferous chert

limestone, mixed tan to gray, some mottled, microcrystalline, grainy, fossiliferous to pelletal, dense, some gray to black fossiliferous cherts





grading to: limestone, mixed gray to tan, chalky, fossiliferous, abundant chalk

limestone, gray to green, cryptocrystalline, lithographic to arenaceous to fossiliferous and grainy, dense, with limestone, tan, fossiliferous to pelletal, grainy, dense, no shows

limestone, cream to tan, oolitic to oomoldic, small specimens, some good moldic porosity, no show, no fluorescence

limestone, mixed gray to cream, fossiliferous, some grainy, few scattered vugs, some oolitic, no shows, abundant chalk

as above, some secondary calcite crystals

mixed limestone, dark to light gray and cream, microcrystalline, grainy, some mottled, fossiliferous, some large clasts, some chalky in part, poor visible porosity, some chalk, no shows

soft red and gray shales, samples wash red

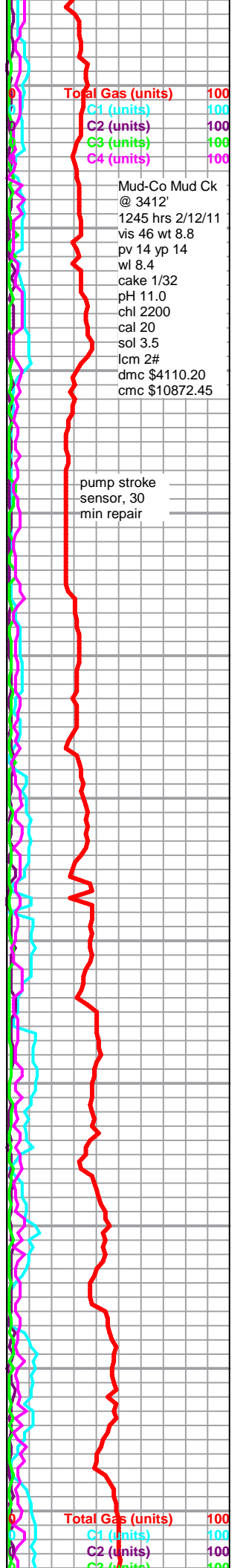
Stotler 3541 -718
limestone, cream to gray and tan-brown mottled, microcrystalline, some grainy, fossiliferous to oolitic, fairly dense, poor visible porosity, no shows or fluorescence

grading to limestone, gray to gray/green, dense, lithographic to fossiliferous

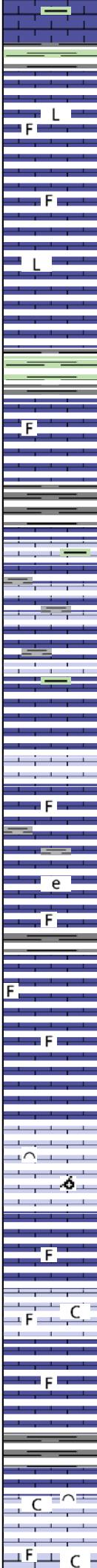
a.a. with some: limestone, cream to brown, dense bioclastic

limestone, gray/green to brown, dense, grainy, fossiliferous

limestone, gray to green, microcrystalline, dense, fossiliferous, some arenaceous, some lithographic some chalk, no shows, some silty green shales



3620
3640
3660
3680
3700
3720
3740
3760
3780
3800
3820



Tarkio 3618 -795

limestone, gray to green, microcrystalline, fossiliferous to arenaceous, dense

as above

mixed gray to green limestones as above

limestone, gray/green, microcrystalline, fossiliferous to arenaceous, with limestones, cream to light gray, chalky, fossiliferous

Bern

mixed fossiliferous limestones, with some brown/tan soft, earthy, no shows

limestone, gray to dark gray, microcrystalline, very fossiliferous, some large clasts, mostly dense

limestone, cream, microcrystalline, bioclastic, trace oomoldic, poor overall visible porosity, no shows

limestone, abundant dark gray fossiliferous facies from above

limestone, cream to light gray, micro-cryptocrystalline, fossiliferous, very chalky, poor visible porosity, no shows

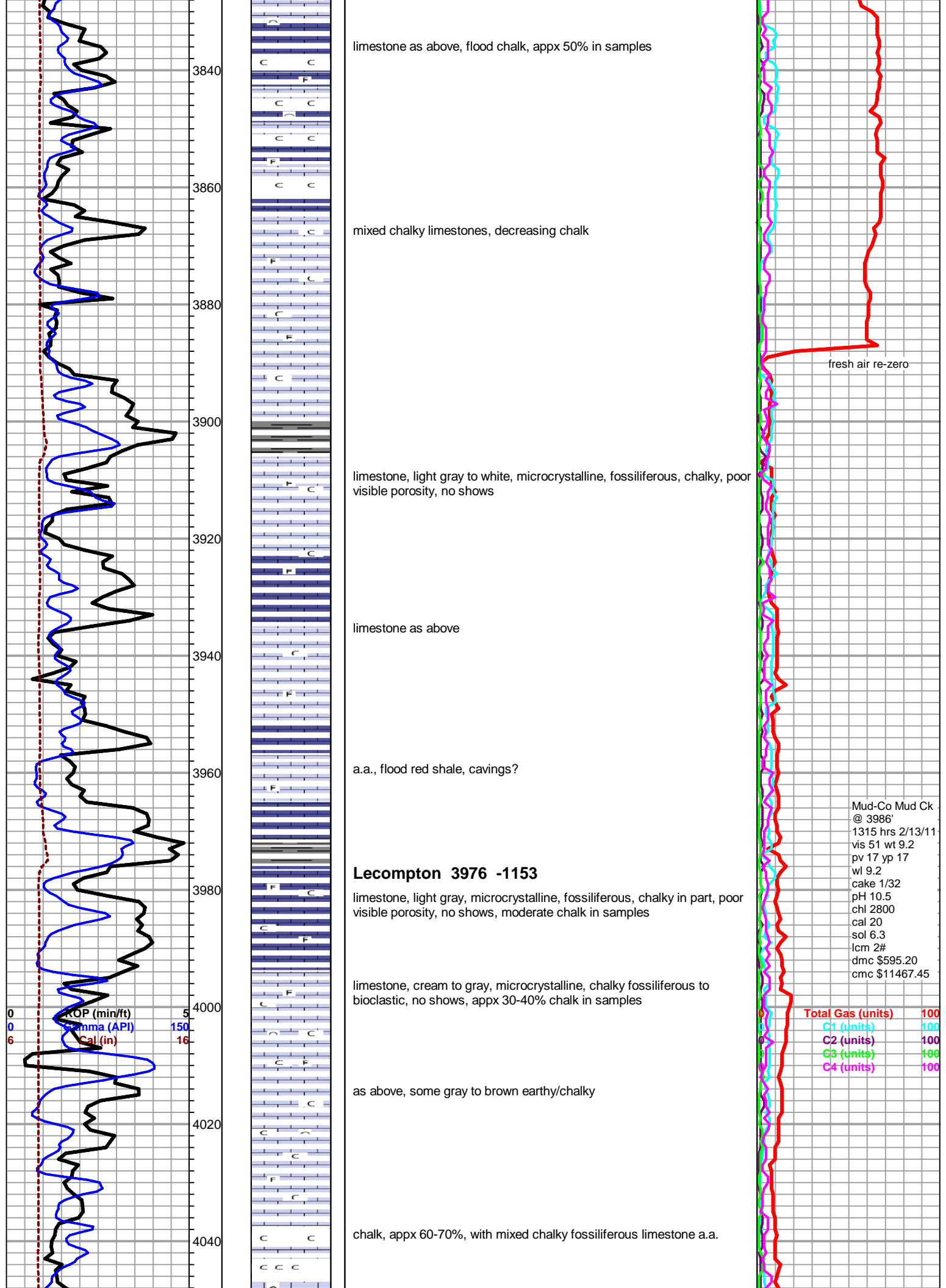
mixed gray to dark gray, fossiliferous, dense

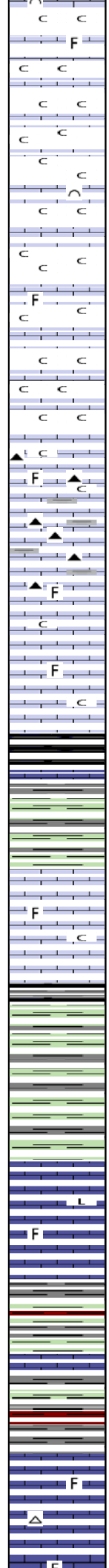
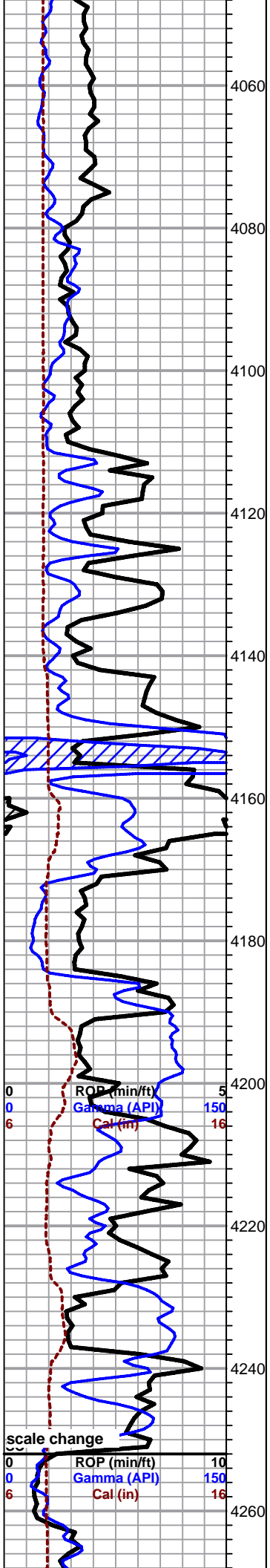
Topeka 3814 -991

limestone, white to cream and gray, bioclastic to fossiliferous, chalky in part, some scattered white to light gray chert, abundant chalk

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

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





as above

limestone as above, decreasing chalk, some scattered dark gray chert

limestone, light gray, fossiliferous, soft, arenaceous/grainy with increasing chert and dark gray to black shales

limestone, cream to gray, microcrystalline, fossiliferous, grainy, some chalky, mostly dense, poor visible porosity, no shows, some chalk

Heebner 4151 -1328

black carbonaceous shale

mixed soft gray and green shales

Toronto

limestone, white to light gray, microcrystalline, fossiliferous, grainy/chalky to compact and dense, poor visible porosity, abundant chalk, no shows, poor fluorescence

Douglas

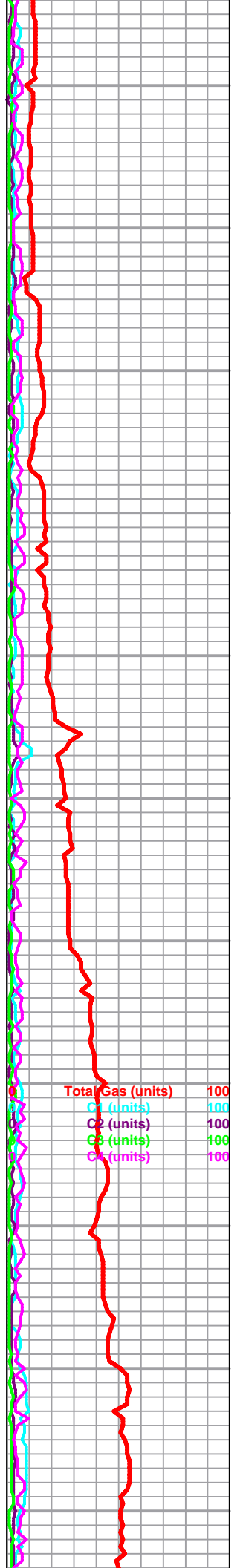
mostly silty dark green shale, some black blocky carbonaceous and gray shale

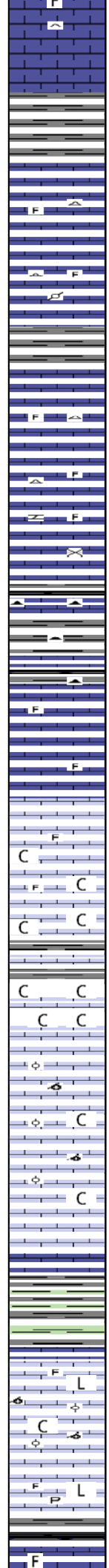
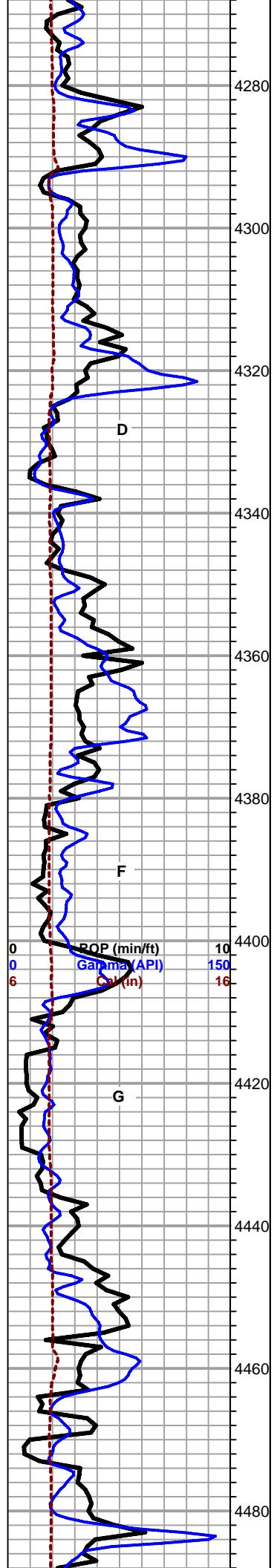
limestone, gray to gray/green and tan, microcrystalline, arenaceous to lithographic, some fossiliferous, poor visible porosity, no shows, poor fluorescence, some chalk

mixed gray and green shale

Lansing 4252 -1429

limestone, white to cream, micro to cryptocrystalline, fossiliferous, smooth compact to grainy, with: chert, white to gray, fossiliferous, sharp, fresh, no shows, fairly even bright bluish/white fluorescence





limestone, cream to gray, microcrystalline, fossiliferous, chalky in part, with limestone, microcrystalline, cream to gray, dense, fossiliferous, abundant chert, gray to white, fossiliferous, no shows

grading to limestone, gray mottled, pelletal to fossiliferous, cherty, dense, no shows

limestone, light gray, mostly cryptocrystalline, dense, lithographic, some chalky, some grainy fossiliferous, chalky, abundant chert, variable gray, no shows

limestone and chert as above, with influx fossiliferous, gray, some large secondary calcite xtals, some loose calcite nodules and xtals in tray, no shows,

limestone, dense gray, abundant black and dark gray chert, dense gray limey shale, some black shale

limestone, dark mottled gray, microcrystalline, very fossiliferous, dense, cherty, no shows

limestone, variable gray to cream, micro-cryptocrystalline, fossiliferous, grainy, mostly chalky, poor visible porosity, abundant chalk in samples, milky wash, no shows

limestone, mixed fossiliferous, very chalky, appx 50% chalk

limestone, tan-brown, oolitic and oomoldic, some fair mold porosity, no shows, abundant chalk in samples, some fair green fluorescence

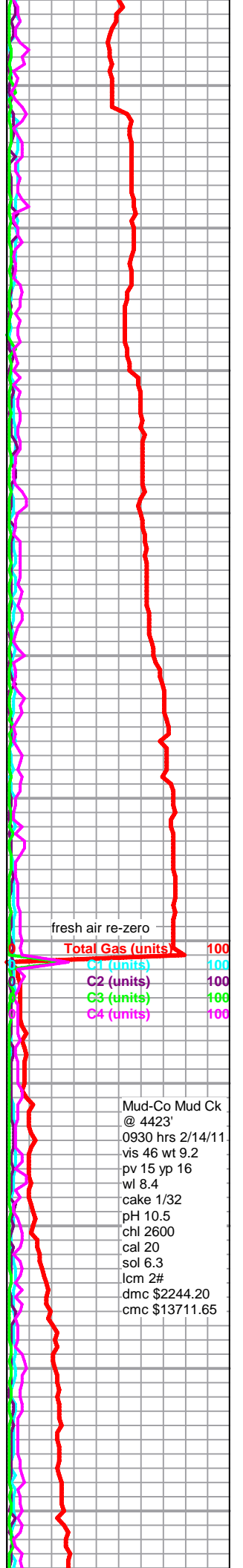
limestone, dark gray, mottled, fossiliferous to pelletal, with shale, dark gray and green silty to splintery

limestone, cream to gray, mixed fossiliferous to lithographic, chalky to dense, with limestone, tan to gray, oomoldic, some oolitic, abundant chalk in samples, spotty fair green mineral fluorescence in oomoldic facies, no shows

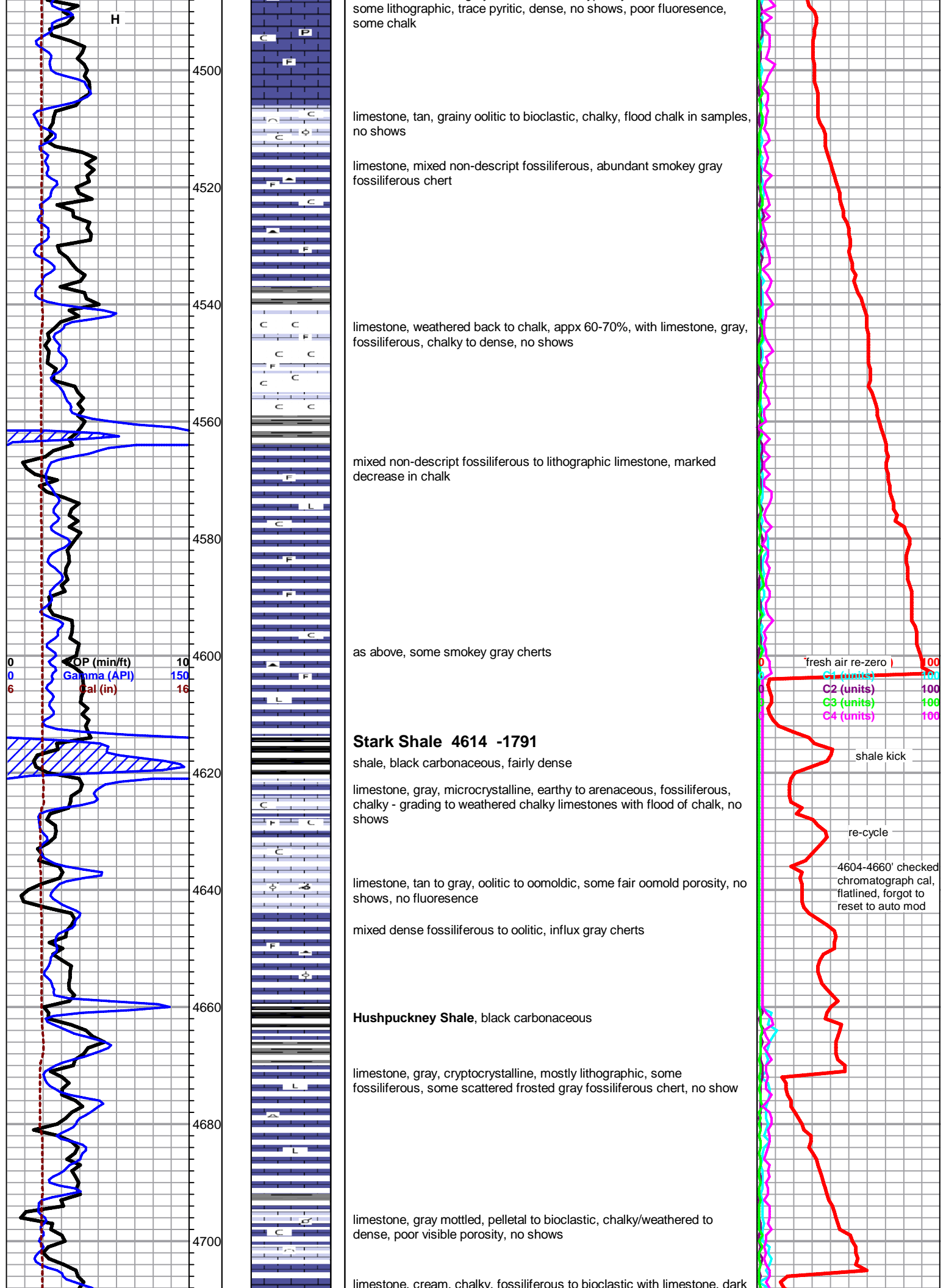
trace pyritic, fossiliferous gray limestone

Muncie Creek

limestone, cream to gray and tan, micro-cryptocrystalline, fossiliferous,



Mud-Co Mud Ck
 @ 4423'
 0930 hrs 2/14/11
 vis 46 wt 9.2
 pv 15 yp 16
 wl 8.4
 cake 1/32
 pH 10.5
 chl 2600
 cal 20
 sol 6.3
 lcm 2#
 dmc \$2244.20
 cmc \$13711.65



some lithographic, trace pyritic, dense, no shows, poor fluorescence, some chalk

limestone, tan, grainy oolitic to bioclastic, chalky, flood chalk in samples, no shows

limestone, mixed non-descript fossiliferous, abundant smokey gray fossiliferous chert

limestone, weathered back to chalk, appx 60-70%, with limestone, gray, fossiliferous, chalky to dense, no shows

mixed non-descript fossiliferous to lithographic limestone, marked decrease in chalk

as above, some smokey gray cherts

Stark Shale 4614 -1791

shale, black carbonaceous, fairly dense

limestone, gray, microcrystalline, earthy to arenaceous, fossiliferous, chalky - grading to weathered chalky limestones with flood of chalk, no shows

limestone, tan to gray, oolitic to oomoldic, some fair oomold porosity, no shows, no fluorescence

mixed dense fossiliferous to oolitic, influx gray cherts

Hushpuckney Shale, black carbonaceous

limestone, gray, cryptocrystalline, mostly lithographic, some fossiliferous, some scattered frosted gray fossiliferous chert, no show

limestone, gray mottled, pelletal to bioclastic, chalky/weathered to dense, poor visible porosity, no shows

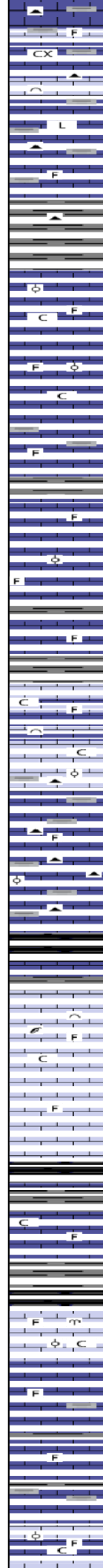
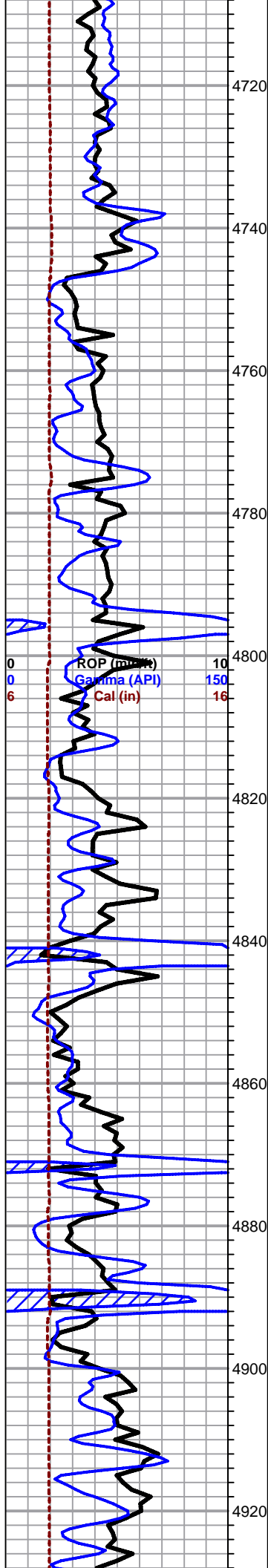
limestone, cream, chalky, fossiliferous to bioclastic with limestone, dark

fresh air re-zero | 100
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100

shale kick

re-cycle

4604-4660' checked chromatograph cal, flatlined, forgot to reset to auto mod



gray, cryptocrystalline lithographic, dense, cherty, abundant dark gray limey shale, dark gray chert, no shows

dark gray to black, dense limey shale, still carrying dark cherts

Marmaton 4746 -1923

limestone, cream to gray and tan, microcrystalline, fossiliferous to oolitic, chalky to dense mix, some smooth compact lithographic, poor overall visible porosity, no shows, some chalk in samples

limestones as above, some pale green, dense, arenaceous, some dark brown oolitic, mostly dense

limestone, cream to gray, microcrystalline, fossiliferous to bioclastic, some oolitic, mostly chalky, poor visible porosity, no shows, flood of chalk in samples, scattered tan fossiliferous chert

mixed fossiliferous and oolitic limestones, as above, flood dark brown chert, dirty gray to brownish gray silty shales

black carbonaceous shale

Pawnee 4843 -2020

limestone, white to cream, cryptocrystalline, chalky fossiliferous to bioclastic, some carbonaceous fossil/plant remains, poor visible porosity, abundant chalk, scattered cherts, fossiliferous, slight fluorescence, no shows

black carbonaceous shale

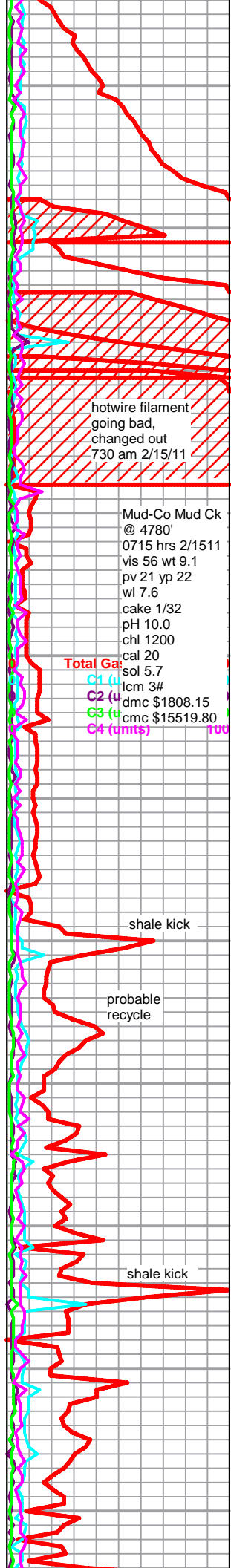
limestone, gray to cream, fossiliferous, grainy, poor overall porosity, some chalk, no shows

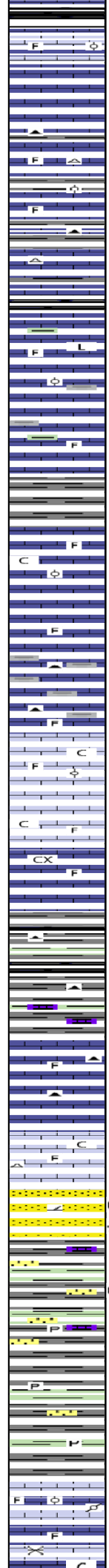
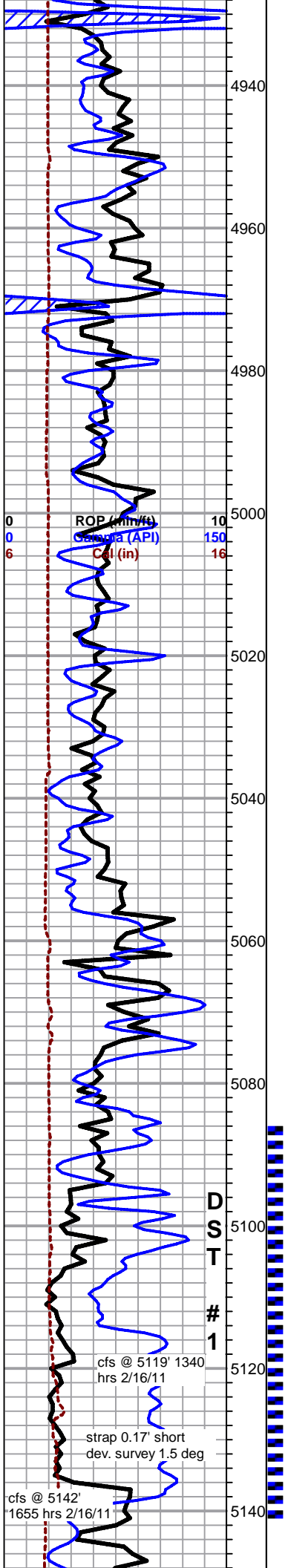
Cherokee 4889 -2066

limestone, gray to tan, microcrystalline, oolitic to fossiliferous, chalky, abundant bryozoans, poor visible porosity, now shows

limestone, dark gray, micro-cryptocrystalline, arenaceous to slightly fossiliferous, dense, with shale, dark gray to black, limey, dense, some silty, some carbonaceous

limestone, mixed light gray to tan and cream, fossiliferous to oolitic, chalky in part, no shows





shale, black carbonaceous

limestone as above, influx tan and gray cherts, some fossiliferous,

limestone as above, decreasing chert, influx black and gray shales, dirty, silty in part

limestone, mixed fossiliferous, oolitic, lithographic and arenaceous, some scattered shales

limestones as above, overall increase in chalkiness, some chalk in tray, some scattered shales

as above, influx brown cherts

limestone, mixed non-descript fossiliferous, mostly chalky and grainy, no shows

limestone, brown to gray, cryptocrystalline, dense fossiliferous

mixed gray, black and some green shales, dense and limey in part, some dark gray to black cherts

DST #1: 5086-5142', 5-90-45-92. --Recovered 20' mud w/few spots of oil--IHP 2428# -- IFP'S 67-34# --ISIP 102# -- FFP'S 57-31# -- FSIP 45# -- FHP 2407#. BHT 1200.

5080 sample, mixed chalky limestones, 5090 sample, grades to limestone, black to gray, dense, fossiliferous, abundant black and gray chert

5100 samp. limestone, light gray, some brown, fossiliferous, soft, chalky, poor visible porosity, no shows, some scattered light cherts

Morrow 5095 -2272

5110 sample: sandstone, quartz, stained dark brown to black, saturated, very fine grain, rounded to well rounded, well cemented, fair sorting, bleeding heavy free oil and gas, strong odor, no fluorescence

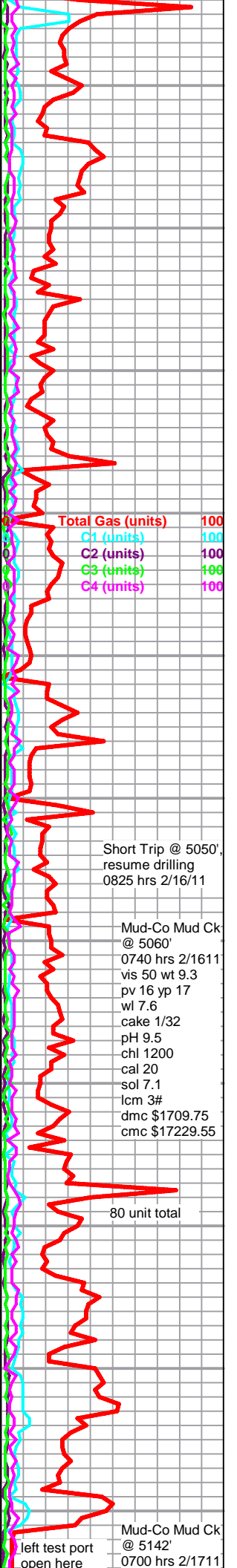
5119 sample: shale, gray and green, soft, samples wash heavy gray, with sand as above & sandstone, gray, very fine grained, fair to poor cemented, pyritic and glauconitic, poor sorted, silty, scattered stain, faint odor 30 min sample: flood dark gray shale, silty to micaceous, with dirty sands as in 5119 sample, scattered stain, no odor, heavy gray wash, abundant pyrite nodules, some dark brown limestone, vugs, show heavy oil in 60 min samp.

shale, gray, green, brown and black, abundant pyrite nodules, only trace sand, maybe some sand stringers, sand is as described from 5106-5119

Josserand #1-5 DST 1.pdf

Mississippian (Chester) 5136 -2313

limestone, light blue-gray mottled, microcrystalline, fossiliferous to pelletal and oolitic, some large clasts and secondary calcite crystals, chalky in part, poor visible porosity, no shows



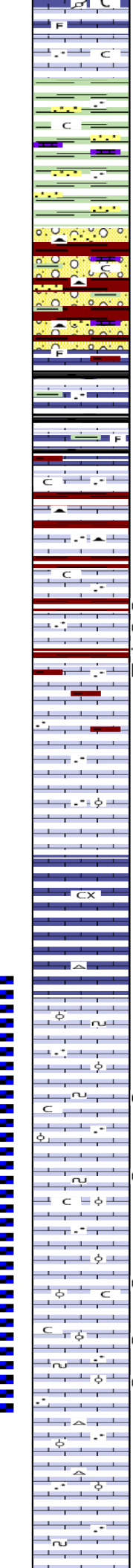
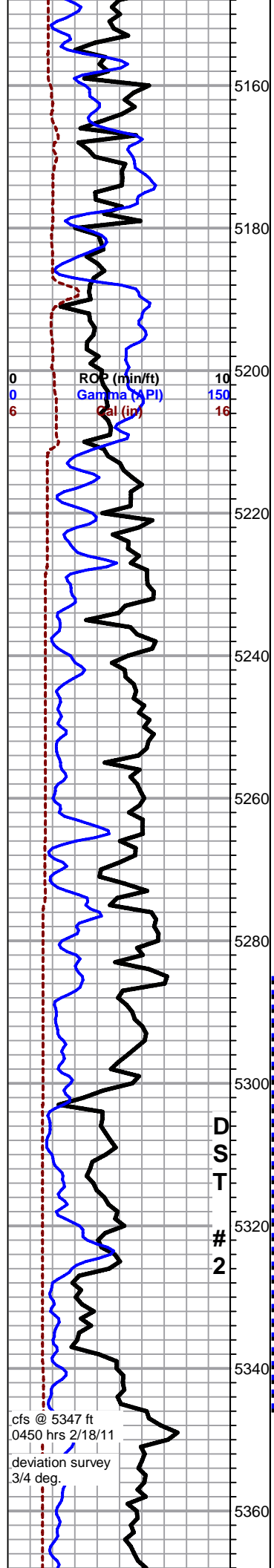
Short Trip @ 5050',
resume drilling
0825 hrs 2/16/11

Mud-Co Mud Ck
@ 5060'
0740 hrs 2/16/11
vis 50 wt 9.3
pv 16 yp 17
wl 7.6
cake 1/32
pH 9.5
chl 1200
cal 20
sol 7.1
lcm 3#
dmc \$1709.75
cmc \$17229.55

80 unit total

Mud-Co Mud Ck
@ 5142'
0700 hrs 2/17/11

left test port
open here



as above, some cream grainy to sandy limestone

shale, mostly green, soft and waxy to denser sandy, some sandstone, green, very fine grained, poorly sorted and silty, well cemented, dense, glauconitic, abundant chalk, no shows

5180 samples, as above, influx limestone, pale green, dense, cryptocrystalline, lithographic, samples wash milky, 5190 sample, green shales as in 5190, with increase in sand, some sand white, very fine grained, fairly dense, some scattered white sandy limestone

conglomerate, sticky red clay and shale, abundant mixed green shales, mixed sandstones, some mixed limestone, mixed dark cherts, black dense striated shale - samples wash brick red

mostly mixed limestones, decreasing red and green shale, increasing black shale, still washes red

St. Gen 5215 -2392

limestone, light gray to pale green, microcrystalline, sandy, chalky, fairly dense, flood of brick red shale with limestone, some green and maroon/purple shale, abundant orange chert, no shows

5240 and 50 sample, as above, some scattered limestone with spotty to fair brown to dead black staining, no odor, 2 specimen show heavy free oil, trace gas bubbles, poor fluorescence, good cut on stained specimens, light cut non-stained, all have halo

limstone a.a., shale and shows drop out

a.a., increasing chalk, few pieces sandy cream oolitic

limestone, light gray lithographic, dense cryptocrystalline, some scatter sandy ls a.a., some cream oolitic

a.a. some scatt mixed chert

St Louis 5287 -2464

limestone, light gray/green to cream and gray, sandy mature oolitic to very sandy limestone, appx 50/50, fairly chalky, glauconitic in part, no shows, poor fluorescence, some chalk

limestone as above, with limestone, white to cream, mature oolitic, chalky, few pieces black wormy stain, solution vugs between oolites (friable as well), fair show free oil in rock and tray, fair odor, poor fluorescence, bright milky white streaming cut, with: chert, white to gray translucent and gray/orange mottled oolitic cherts

Josserand #1-5 DST 2.pdf

mixed chalky oolitic, sandy oolitic and sandy limestone as above, few pieces dense oolitic with trace stain, slight show free oil, no odor, slow streaming cut when broken

St. Louis B 5326 -2503

5340 sample, (very upper B) limestone a.a. few pieces mature cream oolitic, very small oolites, slight stain, slight interoolite porosity, show free oil on break, fleeting odor in cup, fair odor on break, slow blue/white cut - grading to: mature to slightly flattened oolitic, large oolites, very chalky, no stain, fleeting odor in cup, few pieces with oil droplets when broken, no fluorescence

@ 5338', limestone, gray to cream, oolitic (smaller oolites), fairly dense, some sandy and glauconitic, poor visible porosity, found 1 stained specimen, free oil when broke, 1 non-stained, free oil when broke, some free oil in tray, no odor, no fluorescence

@ 5350 - limestone, mixed gray to white, oolitic, sandy oolitic and sandy, some chalky, glauconitic in part, found 2 small chalky mature oolitic pieces with brown stain and fair fluorescence, no oil, (from above?) otherwise no show, abundant translucent vitreous chert with brown specs

DST #2: 5285-5347', 5-90-75-120--Recovered 120 feet of very slight oil cut mud (3% oil). IHP 2568# -- IFP'S 89-58# --ISIP 1540# --

vis 54 wt 9.2
pv 20 yp 20
wl 6.8
cake 1/32
pH 10.5
chl 1450
cal 20
sol 7.1
lcm 3#
dmc \$196.65
cmc \$17426.20

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

50 unit total

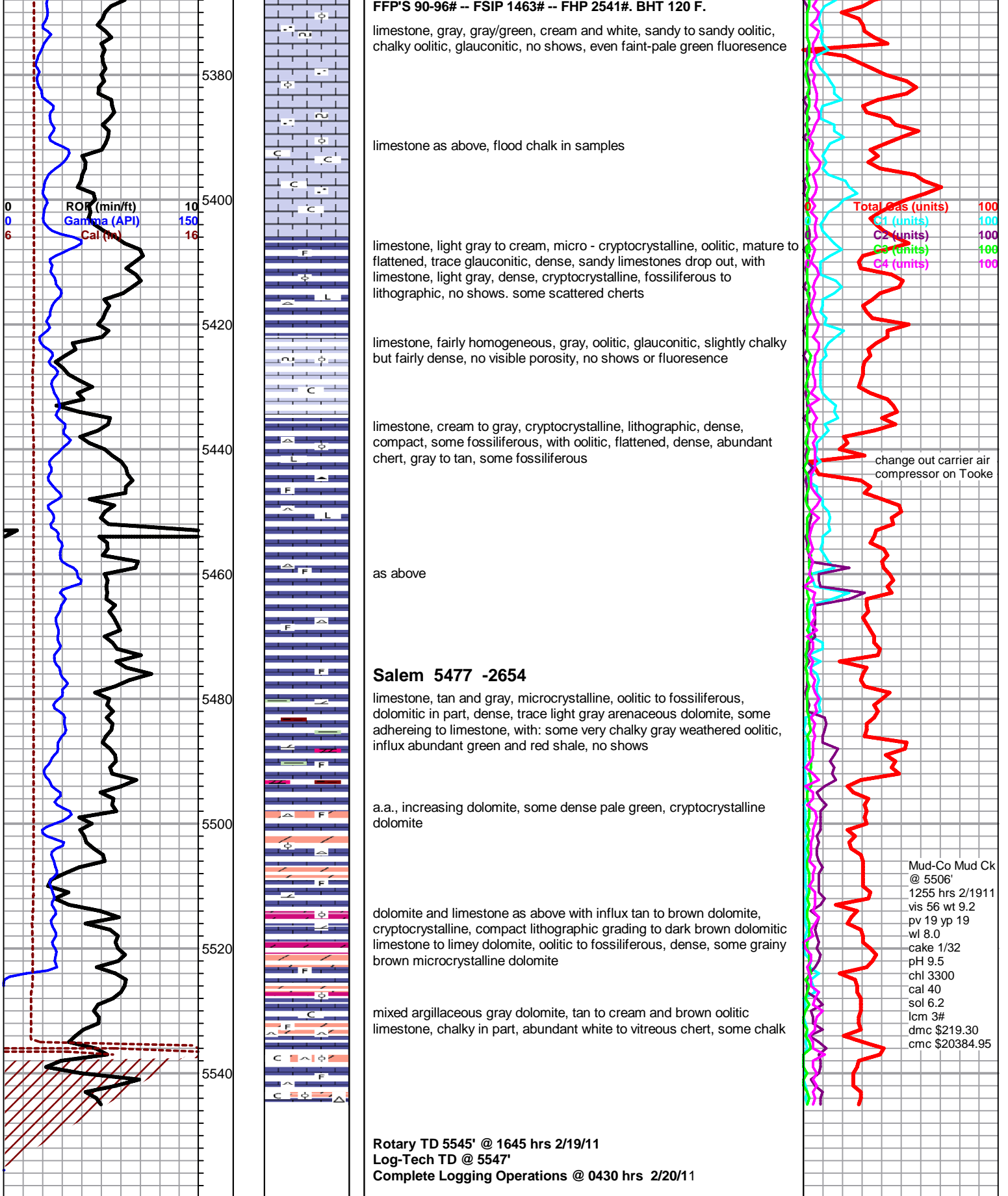
52 unit total

Mud-Co Mud Ck @ 5347'
1240 hrs 2/1811
vis 62 wt 9.3
pv 18 yp 21
wl 7.2
cake 1/32
pH 9.5
chl 1450
cal 20
sol 6.9
lcm 3#
dmc \$2739.45
cmc \$20165.65

recycling contaminatio n from DST

cfs @ 5347 ft
0450 hrs 2/18/11

deviation survey
3/4 deg.



limestone, gray, gray/green, cream and white, sandy to sandy oolitic, chalky oolitic, glauconitic, no shows, even faint-pale green fluorescence

limestone as above, flood chalk in samples

limestone, light gray to cream, micro - cryptocrystalline, oolitic, mature to flattened, trace glauconitic, dense, sandy limestones drop out, with limestone, light gray, dense, cryptocrystalline, fossiliferous to lithographic, no shows. some scattered cherts

limestone, fairly homogeneous, gray, oolitic, glauconitic, slightly chalky but fairly dense, no visible porosity, no shows or fluorescence

limestone, cream to gray, cryptocrystalline, lithographic, dense, compact, some fossiliferous, with oolitic, flattened, dense, abundant chert, gray to tan, some fossiliferous

as above

Salem 5477 -2654

limestone, tan and gray, microcrystalline, oolitic to fossiliferous, dolomitic in part, dense, trace light gray arenaceous dolomite, some adhering to limestone, with: some very chalky gray weathered oolitic, influx abundant green and red shale, no shows

a.a., increasing dolomite, some dense pale green, cryptocrystalline dolomite

dolomite and limestone as above with influx tan to brown dolomite, cryptocrystalline, compact lithographic grading to dark brown dolomitic limestone to limey dolomite, oolitic to fossiliferous, dense, some grainy brown microcrystalline dolomite

mixed argillaceous gray dolomite, tan to cream and brown oolitic limestone, chalky in part, abundant white to vitreous chert, some chalk

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

change out carrier air compressor on Tooke

Mud-Co Mud Ck @ 5506'
 1255 hrs 2/1911
 vis 56 wt 9.2
 pv 19 yp 19
 wl 8.0
 cake 1/32
 pH 9.5
 chl 3300
 cal 40
 sol 6.2
 lcm 3#
 dmc \$219.30
 cmc \$20384.95