

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: Gregory Love #1-1 (SW)
 Location: Sec. 1 - T28S - R30W
 Pool:
 State: Kansas
 API: 15-069-20370-0000
 Field: Renegade SE
 Country: USA

Scale 1:240 Imperial

Well Name: Gregory Love #1-1 (SW)
 Surface Location: Sec. 1 - T28S - R30W
 Bottom Location:
 API: 15-069-20370-0000
 License Number: 5316
 Spud Date: 4/19/2012 Time: 12:00 AM
 Region: Gray County
 Drilling Completed: 5/1/2012 Time: 7:15 AM
 Surface Coordinates: 660' FSL & 660' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2788.00ft
 K.B. Elevation: 2801.00ft
 Logged Interval: 2600.00ft To: 5309.00ft
 Total Depth: 5309.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 660' FSL
 E/W Co-ord: 660' 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: 4/19/2012 Time: 12:00 AM
 TD Date: 5/1/2012 Time: 7:15 AM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2801.00ft Ground Elevation: 2788.00ft
 K.B. to Ground: 13.00ft

NOTES

A Tooke Daq gas detection system owned and operated by Sterling Drilling was employed on this well. ROP and gas curve data were imported into this report. The gamma ray and caliper curves were imported from the electrical log data as well. The recorded drill time and sample tops were consistently 3 - 5 ft. high to log tops. The curves were not shifted to provide an exact match.

Due to success of drill stem tests and favorable electrical log analysis, it was determined that 5 1/2" production casing be set and cemented through the Lansing A and identified production be further tested through perforations and stimulation.

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

Respectfully submitted,
Keith Reavis

Falcon Exploration, Inc

daily drilling report

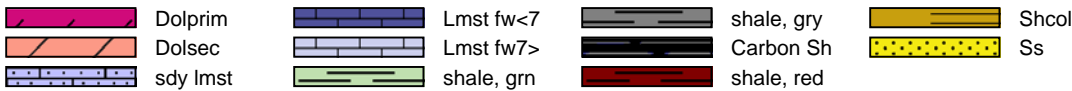
DATE	7:00 AM DEPTH	REMARKS
04/22/2012		Geologist Keith Reavis on location @ 2300 hrs, 2492 ft., drilling ahead
04/23/2012	2846	drilling ahead, Chase Group, Ft. Riley, Cottonwood, Neva, Red Eagle gas kick and structure warrants DST, short trip, displace, TOH
04/24/2012	3186	conduct and complete DST #1, successful test, TIH w/bit, resume drilling
04/25/2012	3500	drilling ahead, Stotler, gas kick warrants test, TOH for DST #2, conducting DST #2, complete DST, successful test, TIH w/bit, resume drilling, cut Tarkio, gas kicks warrant DST, TOH and in with tools for DST #3
04/26/2012	3572	complete DST #3, successful test, resume drilling, Bern, Topeka, Lecompton
04/27/2012	4167	drilling ahead, Heebner, Tornoto, Douglas, Lansing, decide to test Lansing A zone, short trip, TOH for DST #4, conducting DST #4
04/28/2012	4255	complete DST #4, successful test, resume drilling, LKC, Stark
04/29/2012	4679	drilling ahead, lower KC, Marmaton, Pawnee, Cherokee
04/30/2012	4995	drilling ahead, Cherokee, Morrow, Mississippian, St. Gen.
05/01/2012	5307	drilling ahead, Mississippian, St. Louis, TD @ 5309 ft., ofs, short trip TOH for logs, conduct logging operations, geologist off loc @ 2130 hrs

Falcon Exploration, Inc.

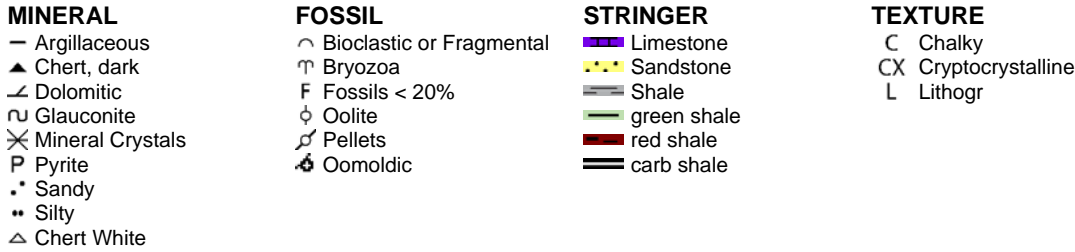
well comparison sheet

Formation	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Gregory Love #1-1				Falcon - Love 1-1				Harold Smith #1-12			
	660' FSL & 660' FWL				330' FSL & 2200' FEL				880' FNL & 1720' FWL			
Sec. 1 T28S R30W				Sec. 1 T28S R30W				Sec. 12 T28S R30W				
2801 KB					2808 KB		Structural Relationship		2808 KB		Structural Relationship	
Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Chase	2630	171	2640	161	2646	162	9	-1	2640	168	3	-7
Winfield	2710	91	2713	88	2718	90	1	-2	2721	87	4	1
Towanda	2756	45	2760	41	2762	46	-1	-5	2765	43	2	-2
Ft. Riley	2809	-8	2810	-9	2816	-8	0	-1	2817	-9	1	0
Cottonwood	3050	-249	3054	-253	3066	-258	9	5	3059	-251	2	-2
Neva	3129	-328	3132	-331	3142	-334	6	3	3148	-340	12	9
Foraker	3236	-435	3240	-439	3250	-442	7	3	3247	-439	4	0
Stotler	3469	-668	3472	-671	3488	-680	12	9	3483	-675	7	4
Tarkio	3545	-744	3545	-744	3562	-754	10	10	3558	-750	6	6
Topeka	3744	-943	3744	-943	3759	-951	8	8	3756	-948	5	5
Lecompton	3910	-1109	3916	-1115	3939	-1131	22	16	3939	-1131	22	16
Heebner	4102	-1301	4106	-1305	4118	-1310	9	5	4105	-1297	-4	-8
Lansing	4204	-1403	4208	-1407	4216	-1408	5	1	4204	-1396	-7	-11
lower G por	4395	-1594	4400	-1599	4399	-1591	-3	-8	4395	-1587	-7	-12
Stark	4539	-1738	4543	-1742	4549	-1741	3	-1	4540	-1732	-6	-10
Marmaton	4696	-1895	4701	-1900	4710	-1902	7	2	4700	-1892	-3	-8
Pawnee	4782	-1981	4788	-1987	4792	-1984	3	-3	4784	-1976	-5	-11
Cherokee	4832	-2031	4837	-2036	4845	-2037	6	1	4833	-2025	-6	-11
Morrow	5023	-2222	5028	-2227	5030	-2222	0	-5	5024	-2216	-6	-11
Miss St. Gen.	5065	-2264	5072	-2271	5055	-2247	-17	-24	5063	-2255	-9	-16
St. Lo B Por.	5169	-2368	5175	-2374	5159	-2351	-17	-23	5151	-2343	-25	-31
Salem	np				5328	-2520			np			
Total Depth	5309	-2508	5314	-2513	5632	-2824	316	311	5282	-2474	-34	-39

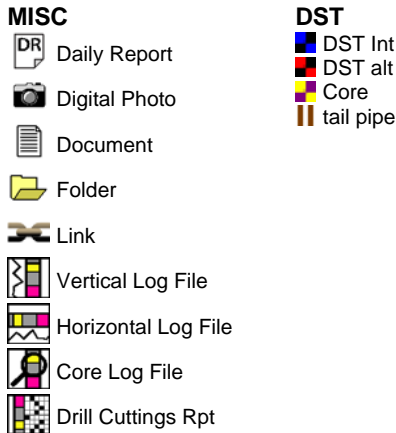
ROCK TYPES



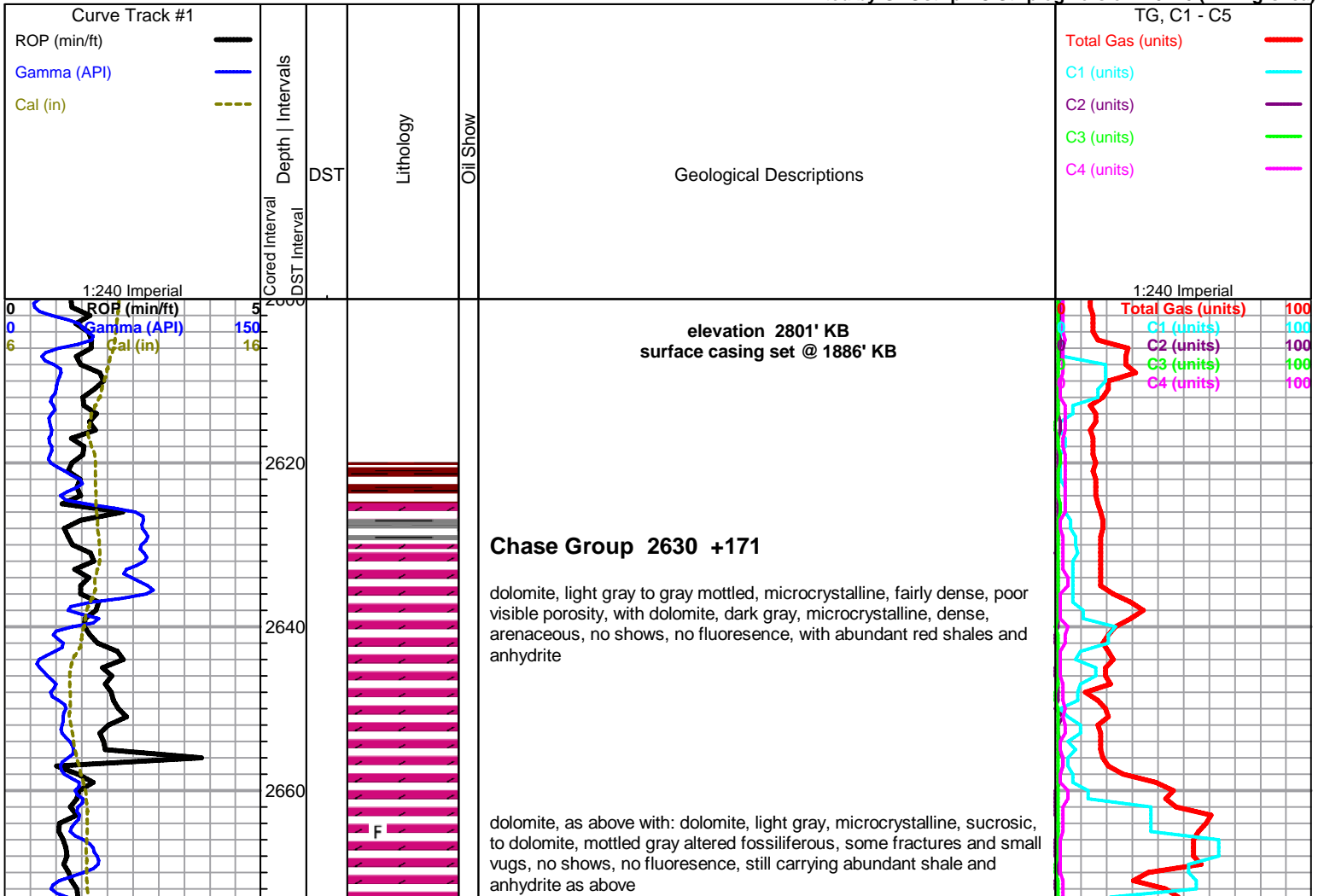
ACCESSORIES



OTHER SYMBOLS



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



2680
2700
2720
2740
2760
2780
2800
2820
2840
2860
2880



Winfield 2710 +91

dolomite, gray to dark gray, microcrystalline, mottled, fossiliferous, sub-sucrosic in part, very fine samples, soft/friable, no visible shows, fair to spotty light green fluorescence

Towanda 2756 +45

dolomite, light gray, some mottled, microcrystalline, crystalline to fossiliferous, poor very fine samples, some scattered intercrystalline porosity, no visible shows, no fluorescence, abundant shale and anhydrite

as above with influx dark gray dolomite, microcrystalline, dense, arenaceous, no visible shows or fluorescence

Fort Riley 2809 -8

dolomite, light gray, some mottled, some white, microcrystalline, sub-sucrosic to fossiliferous, poor visible porosity, poor fine samples, no visible shows or fluorescence, still carrying abundant shales and anhydrite

as above, flood shales

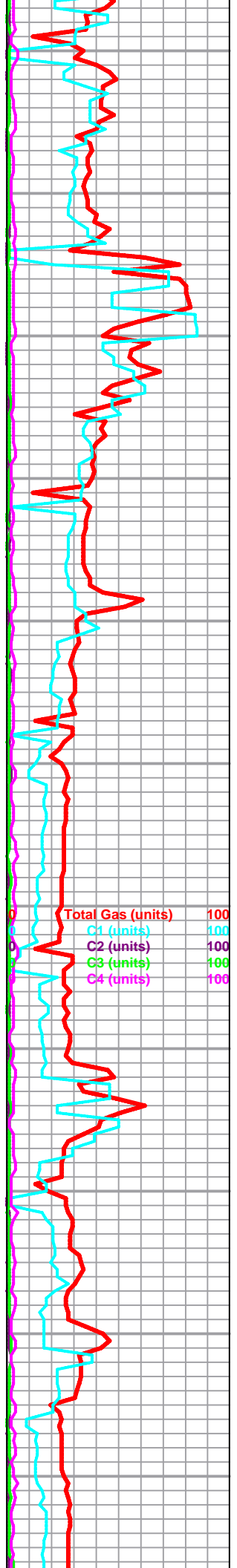
0
0
6

CP (min/ft)
Gamma (API)
Cal (in)

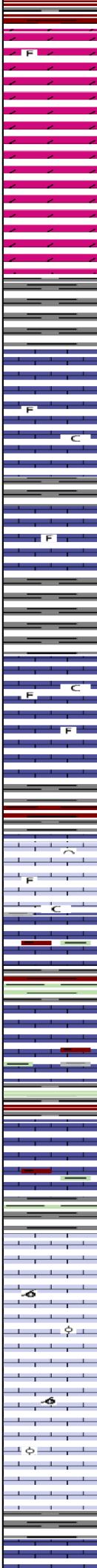
5
150
16

0

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



2900
2920
2940
2960
2980
3000
3020
3040
3060
3080
3100



dolomites as above, still poor samples, increasing shales and anhydrite

limestone, white to light gray, grainy, fossiliferous, chalky, poor visible porosity, very fine samples, no shows, some scattered bright bluish white mineral fluorescence

as above, flood gray silty shales, still very fine samples

mixed limestones, very fine samples, abundant red and gray shales and anhydrite

limestone, white to cream, very fine bioclastic to fossiliferous, some interclast porosity, poor samples, no shows, fair even green mineral fluorescence

poor samples, flood shales, red, gray and green, mixed gray to white limestones

Cottonwood 3050 -249

as above

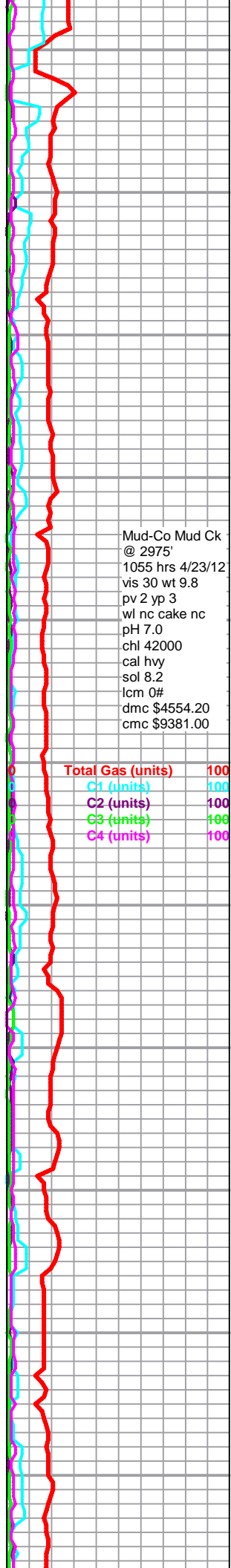
limestone, white to cream, oomoldic with oolitic, some good oomold porosity, very fine samples, no shows, even pale green/yellow mineral fluorescence

as above

0
0
6

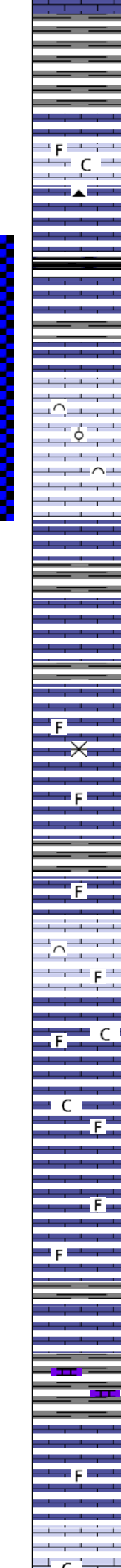
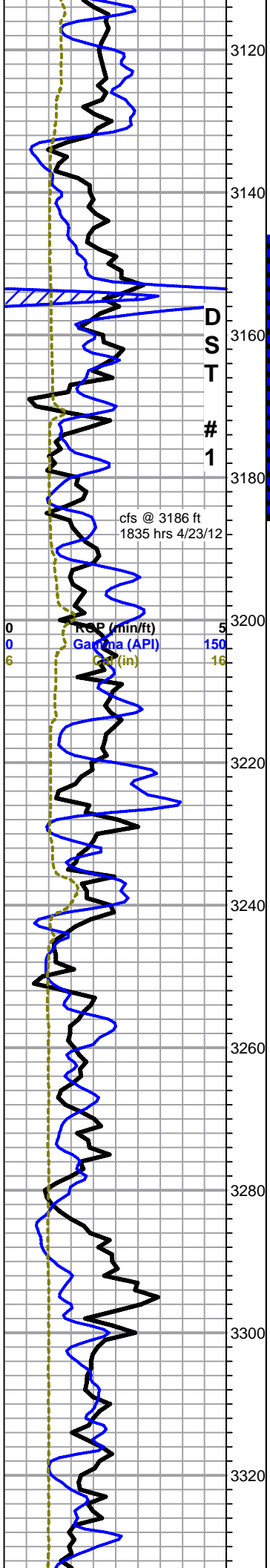
R.P. (min/ft)
Gamma (API)
C₂ (in)

5
150
16



Mud-Co Mud Ck
@ 2975'
1055 hrs 4/23/12
vis 30 wt 9.8
pv 2 yp 3
wl nc cake nc
pH 7.0
chl 42000
cal hvy
sol 8.2
lcm 0#
dmc \$4554.20
cmc \$9381.00

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



Neva 3129 -328

limestone, white, fossiliferous, chalky, poor visible porosity, some light gray frosted chert, no shows, some scattered light fluorescence - very fine small samples

mixed gray mottled limestones, dark gray limestones, arenaceous to argillaceous, mixed shales



Red Eagle

limestone, light gray to tan, bioclastic, trace fine oolitic, chalky in part, poor fine samples, trace interclast porosity, some sub-sucrosic soft limestone, no visible shows, some scattered faint fluorescence

DST #1: 3146-3186', 5-90-120-120. Weak blow 1st open, reaching BOB in 4 minutes, weak blow 2nd open, building, reaching BOB in 20 minutes. Recovered 150' mud, 60' WCM . IHP 1392# -- IFP'S 9-33# -- ISIP 1027# -- FFP'S 37-99# -- FSIP 688# -- FHP 1390#. BHT 95 deg F

poor samples, trip trash

limestone, light gray, microcrystalline, fossiliferous, some secondary calcite, poor visible porosity, no shows or fluorescence

Foraker 3236 -435

limestone, light gray to cream, micro-cryptocrystalline, fossiliferous to bioclastic, some lithographic, fairly dense, some interclast porosity, no shows, even light green mineral fluorescence

limestone, gray/tan, mottled, grainy fossiliferous, chalky, no shows or fluorescence

limestone, non-descript mixed fossiliferous, dense, no shows

limestone, dark gray, dense, to dark gray dense limey shale, soft, no shows

limestone, mixed gray, fossiliferous, no shows, some light scattered fluorescence

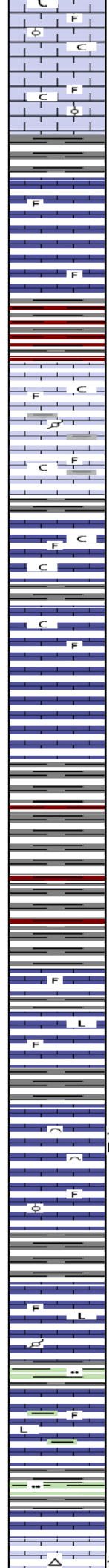
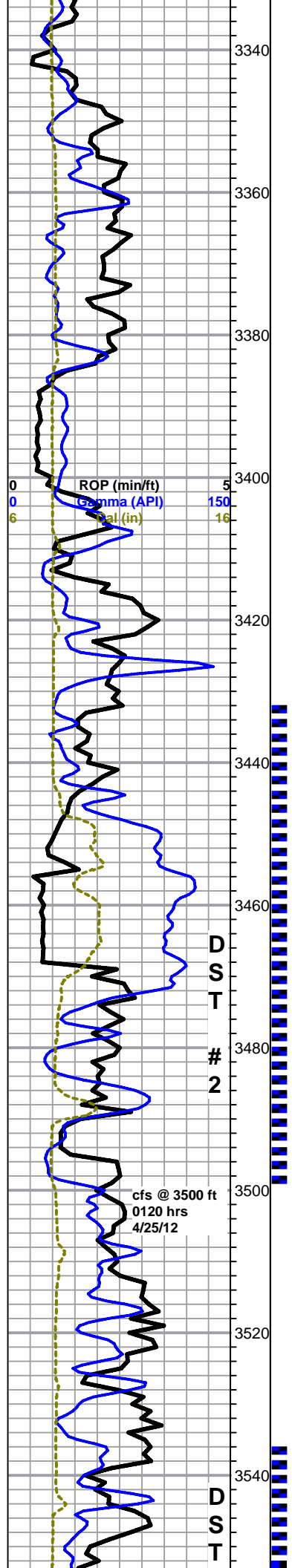
limestone, gray, mottled, very fossiliferous to oolitic, chalky, weathered, some weathered to chalk, poor visible porosity, no shows, some light scattered mineral fluorescence

Mud-Co Mud Ck @ 3186'
 1130 hrs 4/24/12
 vis 53 wt 8.5
 pv 14 yp 16
 wl 10.4 cake 1/32
 pH 11.5
 chl 1000
 cal 20
 sol 2.1
 lcm 2#
 dmc \$807.05
 cmc \$10188.05

83 unit total

displace with chemical mud prior to DST
 pipe strap 0.92' stb
 dev. survey 1 deg

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



scattered mineral fluorescence

limestone, cream, microcrystalline, fossiliferous, some large clasts, poor visible porosity, fairly dense, no shows, no fluorescence

shale, light gray, soft, to red, red wash in samples

limestone, light gray, pelletal to fossiliferous, weathered, abundant shale infill between clasts, abundant chalk, poor visible porosity, no shows, some fair green/white mineral fluorescence

limestone, cream, some light gray, microcrystalline, fossiliferous, dense, no shows, abundant chalk, scattered pale bluish/white mineral fluorescence, white chalky wash in samples

as above

soft gray mushy shales, some brick red, gray sample wash

DST #2: 3432-3500', 5-90-90-120. Recovered 150' mud. Gas gauge 2nd flow: 10 min/121 MCF, 20 min/156 MCF, 30 min/174 MCF, 40 min/186 MCF, 50 min/193 MCF, 60 min/202.5 MCF, 70 min/208 MCF, 80 min/211 MCF, 90 min/213.5 MCF. IHP 1584# -- IFP'S 22-43# -- ISIP 915# -- FFP'S 50-85# -- FSIP 894# -- FHP 1569#. BHT 111 deg F.

Stotler 3469 -668

limestone, mixed gray to cream, some mottled, pelletal to fossiliferous to gray and cream cryptocrystalline slightly fossiliferous to lithographic, dense, no shows or fluorescence

DST #2.jpg

limestone, cream, bioclastic, chalky in part, poor visible interclast porosity, some fractures, good show gas bubbles on break, good even green fluorescence

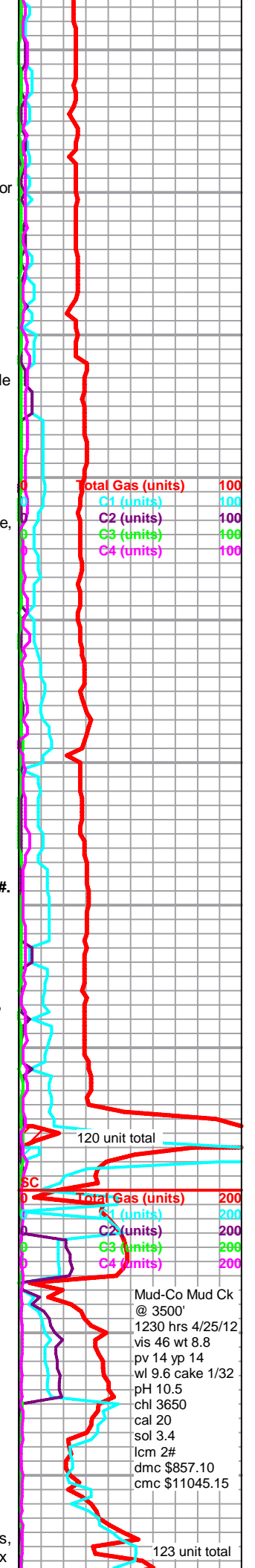
limestone, grades to brown/tan and gray mottled fossiliferous, some cream oolitic, chalky, no shows

limestone, gray dense fossiliferous to pelletal, cream to light gray cryptocrystalline lithographic to fossiliferous, dense, some scattered gray and cream cherts, no shows, some fair light mineral fluorescence

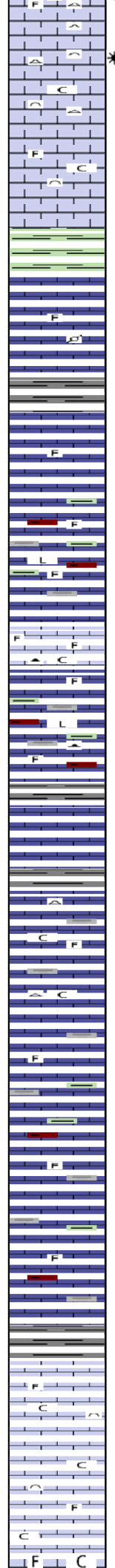
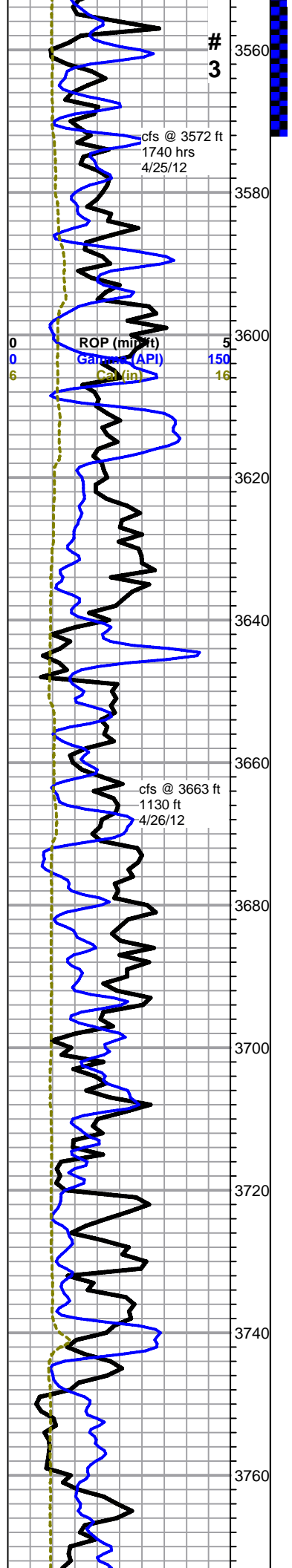
as above with pale gray green to gray limestone, cryptocrystalline, lithographic to fossiliferous, some green argillaceous limestone, green silty shales

Tarkio 3545 -744

limestone, light gray to tan, microcrystalline, fossiliferous to arenaceous, poor visible porosity, trace bubbles on break, with abundant chert (appx



Mud-Co Mud Ck @ 3500' 1230 hrs 4/25/12 vis 46 wt 8.8 pv 14 yp 14 wl 9.6 cake 1/32 pH 10.5 chl 3650 cal 20 sol 3.4 lcm 2# dmc \$857.10 cmc \$11045.15



25%), light gray, some fossiliferous, sharp, fresh, no fluorescence

grades to limestone, tan to gray, bioclastic, grainy, chalky, poor visible porosity, trace gas bubbles on break, marked decrease in chert as above, some scattered light fluorescence

DST #3.jpg

limestone as above, less grainy with: limestone, cream to gray, fossiliferous, grainy, chalky, no shows

soft green shale and some dark green dense shale

limestone, mixed fossiliferous with some mottled gray pelletal, no shows, some light scattered fluorescence

DST #3: 3536-3572', 5-90-70-123. Recovered 80' mud. Gas gauge: 30 min/1.4 MCF, 40 min/1.75 MCF 50 min/1.9 MCF, 60 min/2 MCF, 70 min/2.3 MCF. IHP 1629# -- IFP'S 13-14# -- ISIP 941# --FFP'S 21-43# -- FSIP 938# -- FHP 1619#. BHT 109 deg F

limestone, light gray to gray, some white, cryptocrystalline, fossiliferous, with limestone, light gray to white, cryptocrystalline, lithographic, no shows

as above with some grainy fossiliferous and mixed shale stringers

Bern

limestone, gray and tan, mottled fossiliferous, large clasts, poor visible porosity, cherty in part, trace gray chert, no shows, with influx heavily weathered chalky limestone as above in 30 min sample

grading to: limestones as above with shale stringers, and dense cream to gray cryptocrystalline limestone, fossiliferous to lithographic, no shows

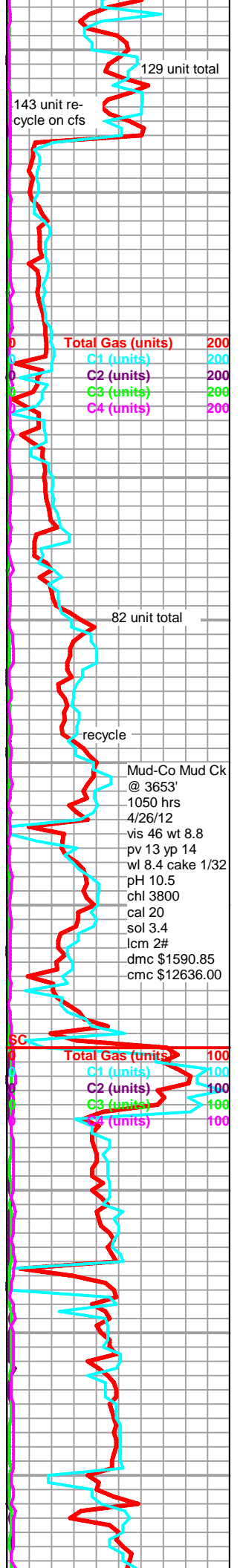
limestone, cream, microcrystalline, slightly fossiliferous, chalky but dense, some light gray cherts and soft gray shales

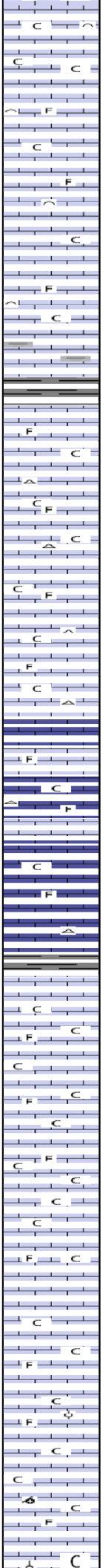
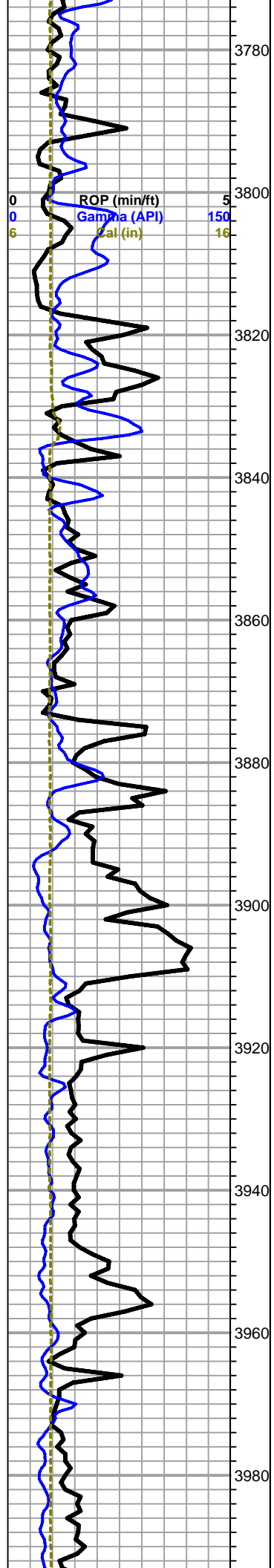
limestone, mixed cream to gray non-descript fossiliferous limestones, influx mixed gray to green and brick red shales, no shows

Topeka 3744 -943

limestone, cream, micro-cryptocrystalline, fossiliferous to bioclastic, very chalky, poor visible porosity, no shows or fluorescence, abundant chalk

as above, influx chalk, appx 40% in samples, heavy chalky wash





limestone, cream to gray, bioclastic to fossiliferous, grainy, chalky, some pinpoint and interclast porosity, no shows or fluorescence, abundant chalk

as above, flood gray shales

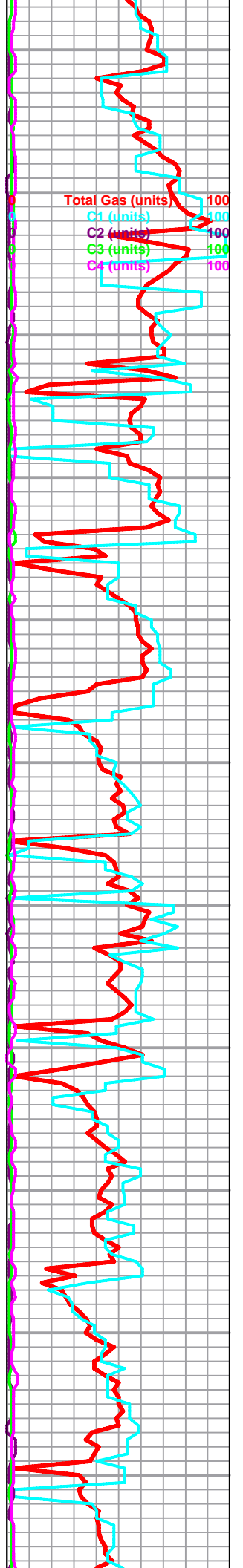
limestone, mixed non descript fossiliferous, some scattered porosity, chalky, some chert inclusions, abundant chalk, with chert, light gray, sharp, fresh, fossiliferous, no shows or fluorescence

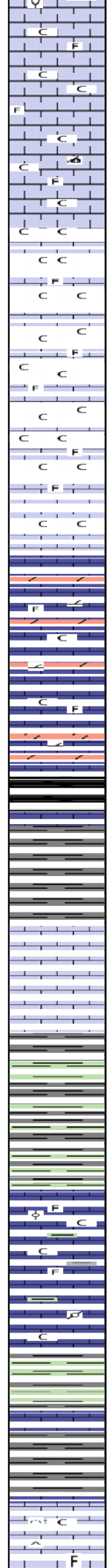
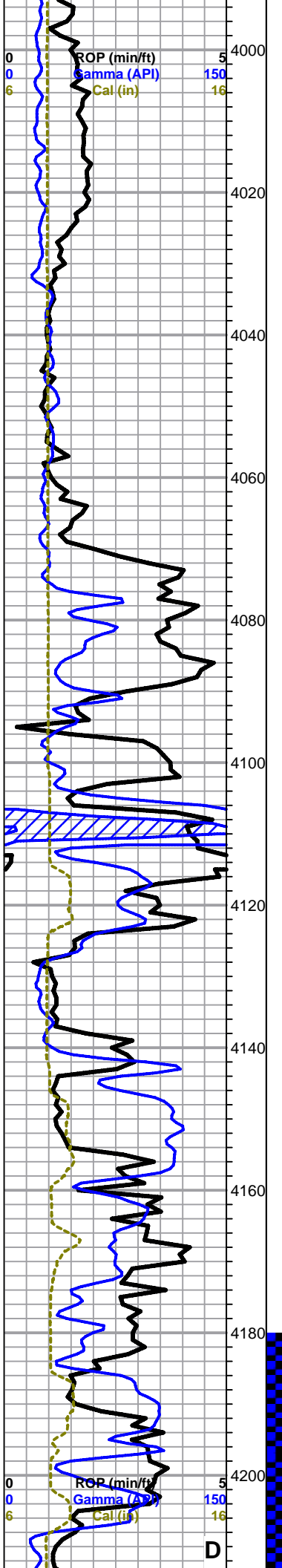
limestone, cream to gray, microcrystalline, fossiliferous, dense, no shows, some chalk, some scattered chert as above

Lecompton 3910 -1109

limestone, light gray to cream, microcrystalline, fossiliferous, some scattered lithographic, abundant chalk (appx 40%), heavy white chalky wash in samples, no shows, some light scattered mineral fluorescence

limestone and chalk as above, some scattered sub-oolitic/oomoldic, no shows





chalk

limestone, dolomitic, with dolomite, tan and gray, microcrystalline, slightly fossiliferous, sub-sucrosic, cherty, some secondary calcite/dol. xtals, some intercrystalline porosity, no shows, no fluorescence - still abundant chalk in samples

Heebner 4102 -1301
shale, black carbonaceous

limestone, light gray, cryptocrystalline, lithographic to fossiliferous, poor visible porosity, some white chert and gray fossiliferous chert, no shows, fair mineral fluorescence, moderate chalk

Douglas 4138 -1337

limestone, mixed cream to gray, fossiliferous, dense, with: limestone, cream to gray, pelletal to oolitic, chalky, abundant chalk, no shows - with fissile gray and green shales, some green fossiliferous shale

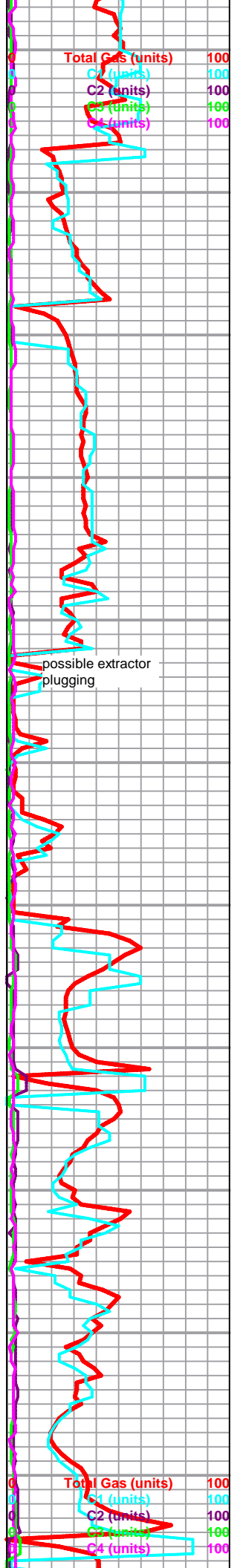
soft gray shales, heavy gray sample wash

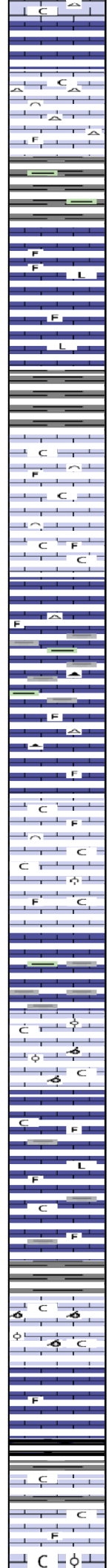
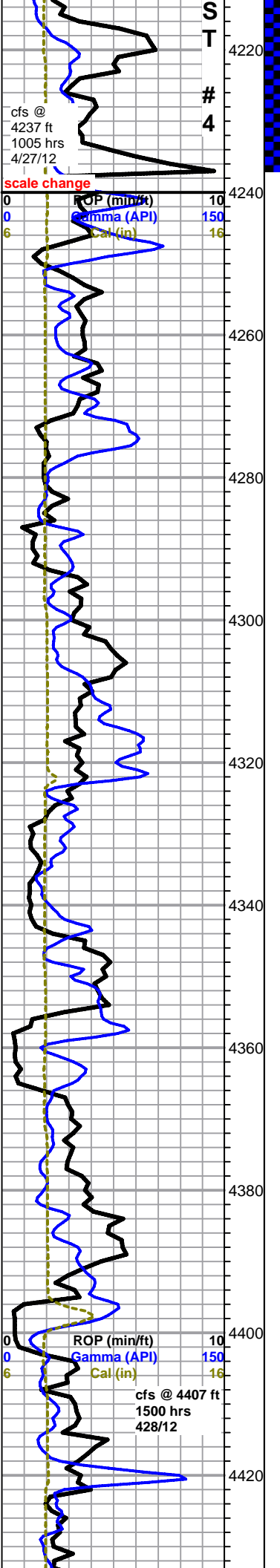
DST #4.jpg

shale as above

Lansing 4204 -1403

limestone, cream to light gray, microcrystalline to cryptocrystalline, fossiliferous to grainy chalky bioclastic, fairly dense, poor visible porosity, some secondary calcite, no shows, fairly even light green to





blue fluorescence, abundant light gray chert, fossiliferous, fresh, sharp, abundant chalk in samples

limestone and chalk as above, marked increase in chert, mixed gray and white fossiliferous, no shows

deviation survey 1 deg.

DST #4: 4180-4237', 5-90-60-120. Recovered 189' mud, 60' HMCW. GTS 2nd flow - Gas gauge: 10 min/42 MCF, 20 min/43.8 MCF, 30 min/42.0 MCF, 40 min/40.7 MCF, 50 min/39.1 MCF, 60 min/38.1 MCF. IHP 1999# -- IFP'S 35-44# -- ISIP 1213# --FFP'S 37-87# -- FSIP1173# -- FHP 1989#. BHT 120 deg F.

limestone, gray to cream, mostly cryptocrystalline, mixed chalky to dense fossiliferous with some compact dense lithographic, some scattered cherts, no shows

limestone, cream to gray, microcrystalline, fossiliferous to bioclastic, poor visible porosity, mostly chalky, no shows, abundant chalk in samples

limestone, light gray, chalky, grainy fossiliferous, with limestone, dark gray, microcrystalline, dense, fossiliferous, mixed cherts and shales

limestone, mixed fossiliferous, with some micro-oolitic/bioclastic, grainy, chalky, flood chalk in samples, no shows or fluorescence

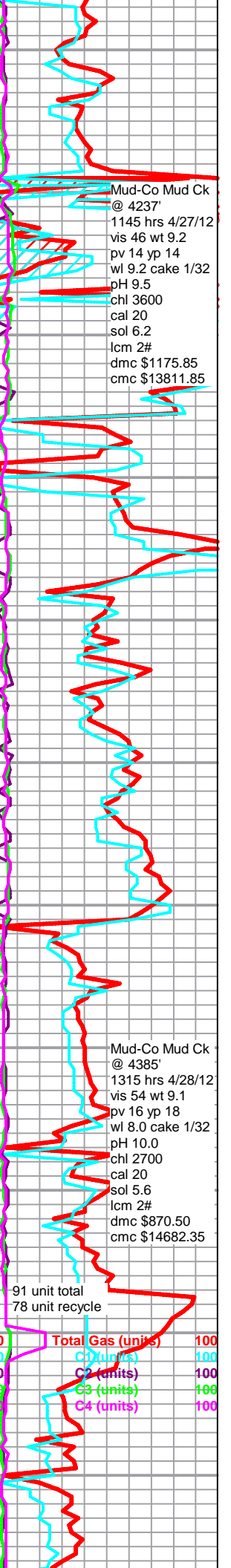
limestone, gray to cream, oomoldic to oolitic, some good oomold porosity, fairly even light green mineral fluorescence, no shows, abundant associated chalk

limestone, cream to light gray, crypto-microcrystalline, chalky, fossiliferous, with: limestone, dark gray, dense, fossiliferous, cherty, limestone, cream, cryptocrystalline, dense, lithographic and gray to light gray, microcrystalline, fossiliferous, arenaceous, no shows, abundant chalk, soft gray shales

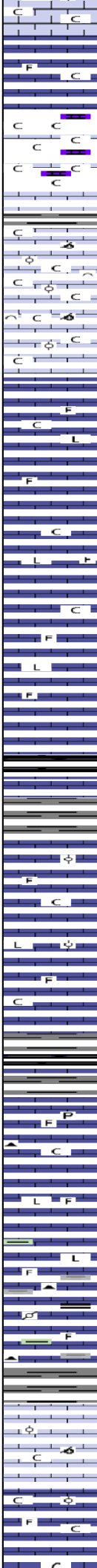
limestone, cream to gray, oomoldic, good porosity, some oolitic, some chalk in-fill with abundant chalk in samples, fair sour oily-brine odor, no show free oil or gas, few pieces with very faint spotty fluorescence

limestone, mixed non-descript chalky fossiliferous, some chalk, no shows, some scattered faint fluorescence

limestone, gray mottled, dense oolitic, with grainy very fossiliferous to bioclastic, some scattered interclast porosity, flood chalk, no shows or fluorescence



4440
4460
4480
4500
4520
4540
4560
4580
4600
4620
4640



limestone, cream to gray, microcrystalline, fossiliferous, fairly dense, some chalk, no shows

limestone, weathered to chalk, white and gray mottled, some limestone, cream oolitic to bioclastic, few pieces with some porosity, **fair sour oily/brine odor**, no show free oil or gas, no stain or sheen, no fluorescence

limestone, cream to gray, oolitic to oomoldic and sub-oomoldic and bioclastic, scattered fair oomold porosity, no shows, no fluorescence, appx 30-40% chalk in samples

limestone, mixed non-descript fossiliferous to lithographic, no shows, some chalk

as above

Stark Shale 4539 -1738
black carbonaceous shale

limestone, cream to gray fossiliferous, crypto-microcrystalline, chalky, limestone, light gray, oolitic, chalky, no visible porosity and darker gray cryptocrystalline dense lithographic, abundant chalk, no shows

shale, black carbonaceous

limestone, light gray, microcrystalline, fossiliferous, chalky to dense, with limestone, dark gray, cryptocrystalline, lithographic, dense, trace pyritic, some chalk, trace gray fossiliferous cherts, no shows

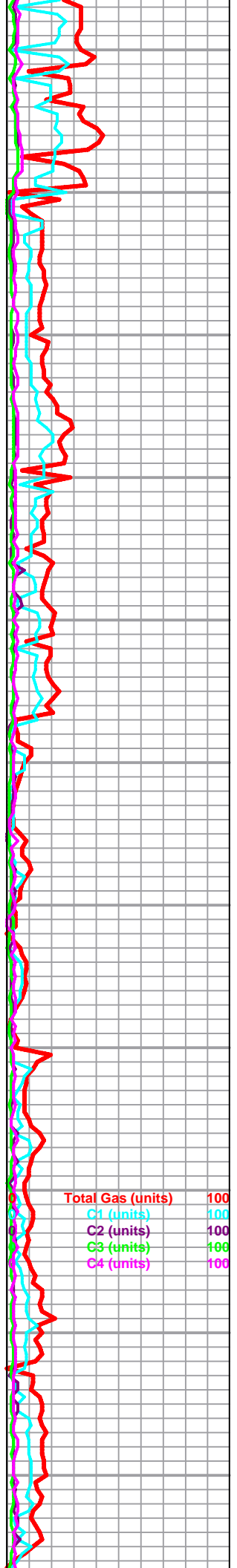
limestone, dark gray, some mottled, micro-cryptocrystalline, fossiliferous, cherty in part, some gray mottled pelletal to fossiliferous with large clasts, dark gray chert, abundant gray, green and black shales, no shows

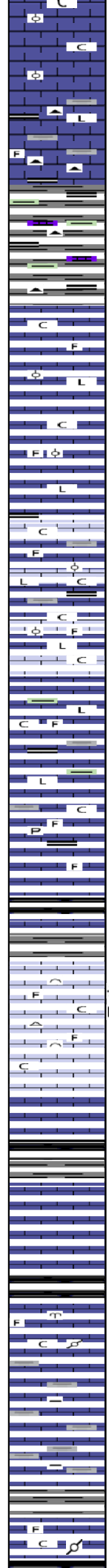
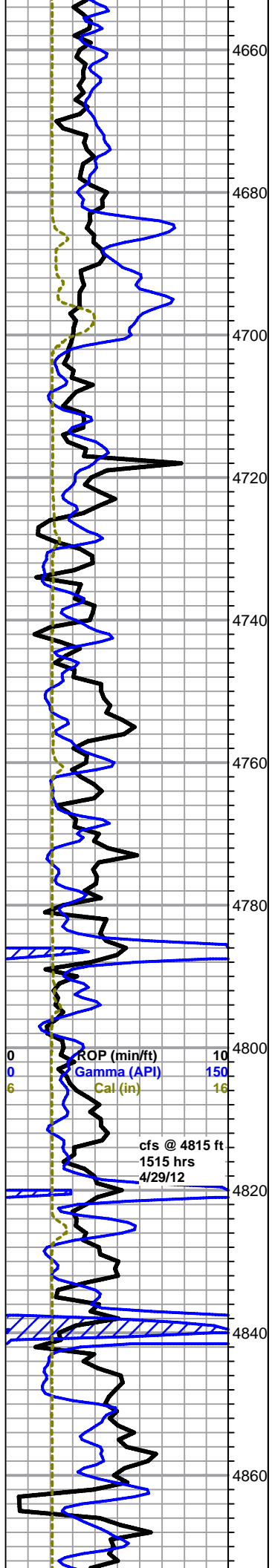
limestone, tan, cryptocrystalline, oolitic to oomoldic, some good oomold porosity, no shows, no fluorescence

grades to: limestone, tan to light brown, dense cryptocrystalline oolitic, weathered gray to cream chalky fossiliferous, abundant chalk, no shows

POP (min/ft) 10
Gamma (API) 150
Cal (in) 16

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





limestone, dark gray, microcrystalline, lithographic, cherty, with dark gray arenaceous, some lighter gray fossiliferous, dense, cherty, scattered brown cryptocrystalline lithographic, abundant shale, gray to black, fairly dense, limy, scattered gray and black cherts

shale, soft gray and green, some brick red, heavy gray/green wash, gray and gray green limy argillaceous shale, black limy dense shales, black cherts

Marmaton 4696 -1895

limestone, cream to gray, microcrystalline, fossiliferous to flattened oolitic, chalky to dense, with limestone, cream, cryptocrystalline, smooth compact lithographic, no shows, some scattered fair mineral fluorescence, some chalk

limestone, cream to gray and tan, oolitic and fossiliferous, with limestone, gray mottled pelletal, some weathered, limestone, cream, cryptocrystalline, smooth compact lithographic, flood chalk in samples and limestones weathered to chalk, some mixed shales and cherts, no shows, some scattered faint fluorescence

limestone as above, decreasing chalks

as above with limestone, dark gray to gray, dense fossiliferous, some large clasts, some pyrite, no show

Pawnee 4782 -1981

limestone, cream to white, bioclastic, dense but chalky, some pinpoint interclast porosity, some fair fluorescence, few pieces with good gas show and sheen on break, with: limestone, cream to gray, cryptocrystalline, fossiliferous dense, abundant chalk, some scattered gray to tan chert, faint odor in wet cup

shale, black carbonaceous

limestone, cream to gray, microcrystalline, fossiliferous to pelletal, chalky to dense, poor visible porosity, no shows, some scattered gray to tan fossiliferous cherts

Cherokee 4832 -2031

shale, black carbonaceous

limestone, cream to light gray, chalky, fossiliferous to pelletal, some large bryoz. frags, abundant chalk, trace chert, no shows or fluorescence

grading to limestone, dark gray, arenaceous to argillaceous, dark gray argillaceous to limy shales

limestone, mixed gray to brown oolitic to pelletal, mostly dense, with limestone, mixed gray to cream, fossiliferous, some mottled, with limestone, tan cryptocrystalline lithographic, abundant chalk, no shows

Mud-Co Mud Ck
@ 4702'
0830 hrs 4/29/12
vis 51 wt 9.2
pv 14 yp 15
wl 8.4 cake 1/32
pH 9.5
chl 2200
cal 20
sol 6.3
lcm 2#
dmc \$2096.95
cmc \$16779.30

shale kick

gas kick 73 unit total

shale kick recycle

Total Gas (units) 100

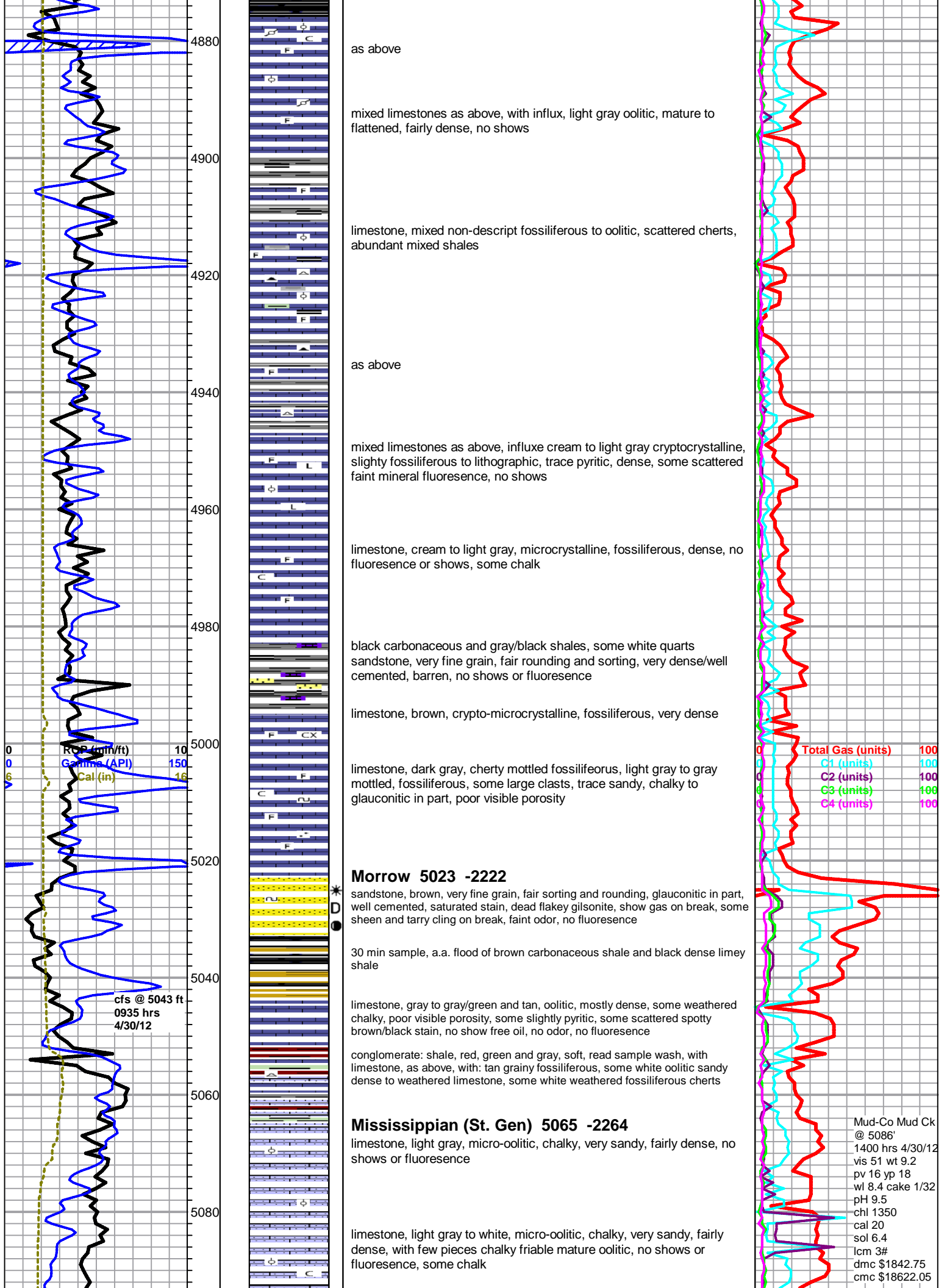
C1 (units) 100

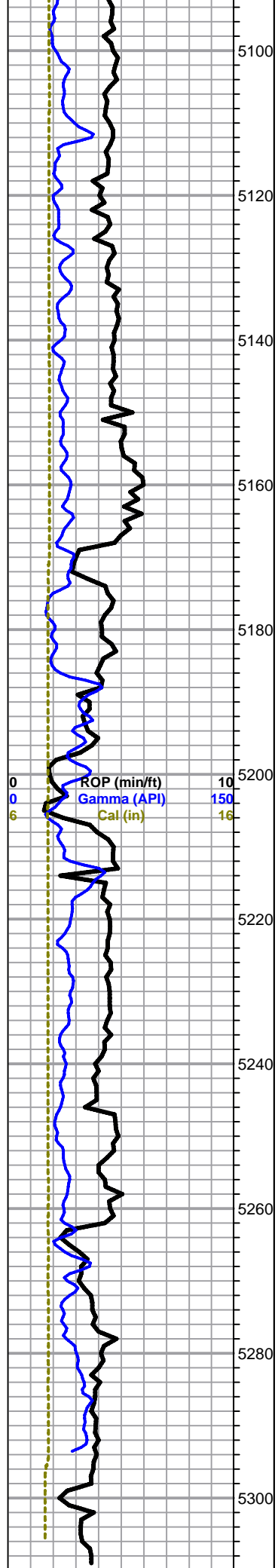
C2 (units) 100

C3 (units) 100

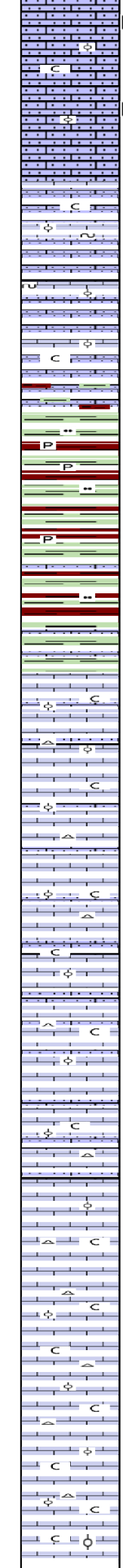
C4 (units) 100

shale kick

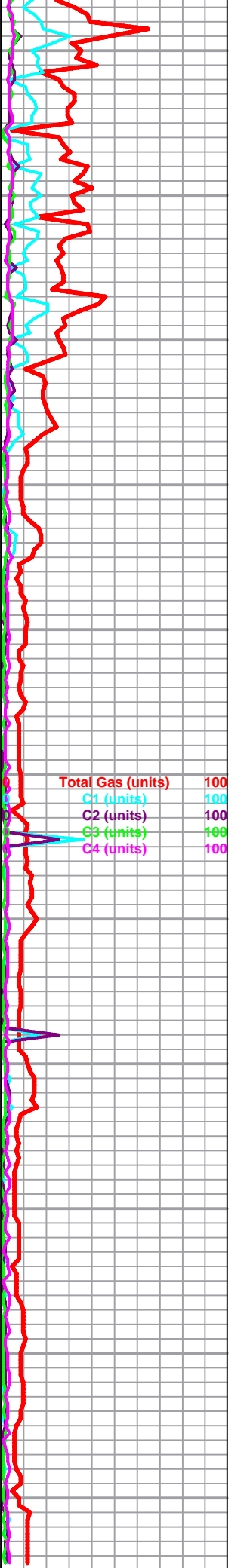




0 ROP (min/ft) 10
 0 Gamma (API) 150
 6 Cal (in) 16



D as above, with scattered specimens bearing spotty to saturated black to brown stain, no show free oil, no odor, no fluorescence
 D as above, decreasing show
 as above, no show, with influx large mature oolitic, scattered only, chalky, slightly glauconitic, some sandy, barren, no fluorescence, some chalk
 sandy micro-oolitic sandstones as above, no shows, only few scattered pieces mature oolitic as above, no shows, some chalk
 beginning 5160 sample, flood shale, variable green and gray/green, silty, some pyritic, with brick red to maroon, silty, some green/red mottled, some lavender/brown dense fossiliferous
 as above
 5190 sample, a.a., maybe only 30-40% limestone a.a (sluff?), small samples of limestone, no show, few pieces dense cryptocrystalline, tan, fossiliferous, faint fluorescence, no shows or odor
 shale falls out, limestone, chalky, slightly sandy fossiliferous to micro-oolitic limestone, fairly homogeneous, some gray cryptocrystalline dense, some chalk with chalky sample wash, no shows or fluorescence, 5210 sample, as above, somewhat sandier, few scattered specimens chalky mature oolitic, some chert inclusions scattered gray fossiliferous cherts, no shows or odor, some scattered faint mineral fluorescence
 5220 sample, no shows, mature chalky oolitic to sandy limestone, poor visible porosity, trace chert, no fluorescence
 limestone, white to cream, mature chalky oolitic, no visible porosity, with limestone, light gray, cryptocrystalline flattened oolitic, very dense, stringers of white to gray chalky sandy limestone, no shows or fluorescence, abundant chalk, some scattered gray frosted fossiliferous and tan oolitic chert
 as above
 limestone, white to cream, mature oolitic, very chalky, no visible porosity, no shows or fluorescence, decrease in gray flattened limestone, sandy limestone drops out, increase in chert
 as above, no shows
 as above



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

		Complete Logging Operations 2030 hrs 5/1/12	
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DST #2.jpg



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: GREGORYLOVE1-15WDST2

TIME ON: 03:40
 TIME OFF: 12:21

Company: FALCON EXPLORATION, INC. Lease & Well No. GREGORY LOVE #1-1 (SW)
 Contractor: STERLING DRILLING CO. RIG #5 Charge to: FALCON EXPLORATION, INC.
 Elevation: 2801 KB Formation: STOTLER Effective Pay: _____ Ft. Ticket No. T047
 Date: 4-25-12 Sec. 1 Twp. 28 S Range 30 W County GRAY State KANSAS
 Test Approved By: KEITH REAVIS Diamond Representative: TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 3432 ft. to 3500 ft. Total Depth 3500 ft.
 Packer Depth 3427 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3432 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3413 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 3497 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 53 Drill Collar Length 330 ft. I.D. 2 1/4 in.
 Weight 8.55 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 1,000 P.P.M. Drill Pipe Length 3069 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 36 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 INCH BLOW, BUILDING, REACHING BOB 1 MIN. (NOBB)
 2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (WSBB)

Recovered 3350 ft. of GAS IN PIPE
 Recovered 150 ft. of MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____
 Price Job _____
 Other Charges _____
 Insurance _____
 Total _____

TOOL SAMPLE: TRACE OIL, 100% MUD

Time Set Packer(s) 5:31 AM A.M. P.M. Time Started Off Bottom 10:36 AM A.M. P.M. Maximum Temperature 111 deg.

Initial Hydrostatic Pressure _____ (A) 1584 P.S.I.
 Initial Flow Period _____ Minutes 5 (B) 22 P.S.I. to (C) 43 P.S.I.
 Initial Closed In Period _____ Minutes 90 (D) 915 P.S.I.
 Final Flow Period _____ Minutes 90 (E) 50 P.S.I. to (F) 85 P.S.I.
 Final Closed In Period _____ Minutes 120 (G) 894 P.S.I.
 Final Hydrostatic Pressure _____ (H) 1569 P.S.I.

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



INITIAL FLOW

FINAL FLOW PSI

Time (Clock)	Drill Size	Gauge	CFD
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

Time (Clock)	Drill Size	Gauge	CFD
10	1/2 in.	11 in.	121,000
20	1/2 in.	16.5 in.	158,000
30	1/2 in.	19.5 in.	174,000
40	1/2 in.	21.5 in.	186,000
50	1/2 in.	23 in.	198,000
60	1/2 in.	24.5 in.	202,500
70	1/2 in.	25.5 in.	208,000
80	1/2 in.	26 in.	211,000
90	1/2 in.	26.5 in.	213,500
	in.	in.	

DST #3.jpg



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: GREGORYLOVE1-15WDST3

TIME ON: 20:29 4-25-12
 TIME OFF: 05:24 4-26-12

Company **FALCON EXPLORATION, INC.** Lease & Well No. **GREGORY LOVE #1-1 (SW)**
 Contractor **STERLING DRILLING CO. RIG #5** Charge to **FALCON EXPLORATION, INC.**
 Elevation **2801 KB** Formation **TARKIO** Effective Pay _____ Ft. Ticket No. **T048**
 Date **4-25-12** Sec. **1** Twp. **28 S** Range **30 W** County **GRAY** State **KANSAS**
 Test Approved By **KEITH REAVIS** Diamond Representative **TIMOTHY T. VENTERS**
 Formation Test No. **3** Interval Tested from **3536** ft. to **3572** ft. Total Depth **3572** ft.
 Packer Depth **3531** ft. Size **6 3/4** in. Packer depth _____ ft. Size **6 3/4** in.
 Packer Depth **3536** ft. Size **6 3/4** in. Packer depth _____ ft. Size **6 3/4** in.
 Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) **3517** ft. Recorder Number **8457** Cap. **10,000** P.S.I.
 Bottom Recorder Depth (Outside) **3509** 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 **46** Drill Collar Length **330** ft. I.D. **2 1/4** in.
 Weight **8.8** Water Loss **9.6** cc. Weight Pipe Length **0** ft. I.D. **2 7/8** in.
 Chlorides **3,050** P.P.M. Drill Pipe Length **3173** ft. I.D. **3 1/2** in.
 Jars: Make **STERLING** Serial Number **4** Test Tool Length **33** ft. Tool Size **3 1/2-IF** in.
 Did Well Flow? **NO** Reversed Out **NO** Anchor Length **36** 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: **GOOD 2 INCH BLOW, BUILDING, REACHING BOB 2 MIN. (NOBB)**
 2nd Open: **VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (NOBB)**
 Recovered **3425** ft. of **GAS IN PIPE**
 Recovered **80** ft. of **MUD**
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: _____

Price Job
Other Charges
Insurance
Total

TOOL SAMPLE: 100% MUD

Time Set Packer(s) **10:56 PM** A.M. P.M. Time Started Off Bottom **3:44 AM** A.M. P.M. Maximum Temperature **109 deg.**
 Initial Hydrostatic Pressure _____ (A) **1629** P.S.I.
 Initial Flow Period _____ Minutes **5** (B) **13** P.S.I. to (C) **14** P.S.I.
 Initial Closed In Period _____ Minutes **90** (D) **941** P.S.I.
 Final Flow Period _____ Minutes **70** (E) **21** P.S.I. to (F) **43** P.S.I.
 Final Closed In Period _____ Minutes **123** (G) **938** P.S.I.
 Final Hydrostatic Pressure _____ (H) **1619** P.S.I.

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



INITIAL FLOW

FINAL FLOW IN. H2O

Time (Clock)	Orifice Size	Gauge	CFD
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	

Time (Clock)	Orifice Size	Gauge	CFD
30	18 in.	7.5 in.	1,445
40	18 in.	11 in.	1,750
50	18 in.	13 in.	1,910
60	18 in.	15 in.	2,050
70	18 in.	19 in.	2,300
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	
	18 in.	18 in.	

DST #4.jpg



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: GREGORYLOVE1-15WD5T4

TIME ON: 15:02 4-27-12
 TIME OFF: 01:43 4-28-12

Company FALCON EXPLORATION, INC. Lease & Well No. GREGORY LOVE #1-1 (SW)
 Contractor STERLING DRILLING CO. RIG #5 Charge to FALCON EXPLORATION, INC.
 Elevation 2801 KB Formation LANSING Effective Pay _____ Ft. Ticket No. T049
 Date 4-27-12 Sec 1 Twp. 28 S Range 30 W County GRAY State KANSAS
 Test Approved By KEITH REAVIS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 4180 ft. to 4237 ft. Total Depth 4237 ft.
 Packer Depth 4175 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4180 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 4161 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 4234 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 45 Drill Collar Length 330 ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3,600 P.P.M. Drill Pipe Length 3817 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 25 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: GOOD 2 1/2 INCH BLOW, BUILDING, REACHING BOB 45 SEC. (NOBB)
 2nd Open: VERY STRONG BLOW, HITTING BOB INSTANTANEOUSLY. (NOBB)

Recovered 3910 ft. of GAS IN PIPE
 Recovered 189 ft. of MUD
 Recovered 80 ft. of HMCW, 58% WATER, 42% MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of CHLORIDES: 51,000 ppm Price Job _____
 Recovered _____ ft. of PH: 6.5 Other Charges _____
 Recovered _____ ft. of RW: .14 @ 59 deg. Insurance _____
 Remarks: _____

TOOL SAMPLE: TRACE OIL, 17% WATER, 83% MUD
 Total _____

Time Set Packer(s) <u>6:15 PM</u>	A.M. P.M.	Time Started Off Bottom <u>10:50 PM</u>	A.M. P.M.	Maximum Temperature <u>120 deg.</u>
Initial Hydrostatic Pressure.....	(A)	<u>1999</u> P.S.I.		
Initial Flow Period.....	Minutes	<u>5</u> (B)	<u>35</u> P.S.I. to (C)	<u>45</u> P.S.I.
Initial Closed In Period.....	Minutes	<u>90</u> (D)	<u>1213</u> P.S.I.	
Final Flow Period.....	Minutes	<u>60</u> (E)	<u>37</u> P.S.I. to (F)	<u>87</u> P.S.I.
Final Closed In Period.....	Minutes	<u>120</u> (G)	<u>1173</u> P.S.I.	
Final Hydrostatic Pressure.....	(H)	<u>1989</u> P.S.I.		

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



INITIAL FLOW				FINAL FLOW IN H2O			
Time (Clock)	Orifice Size	Gauge	CFD	Time (Clock)	Orifice Size	Gauge	CFD
	12 in.	45 in.	42,050		12 in.	49 in.	43,850
	12 in.	45 in.	42,050		12 in.	42 in.	40,700
	12 in.	39 in.	38,100		12 in.	37 in.	38,100