

OPERATOR

Company: Falcon Explortation, Inc.
 Address: 125 N. Market
 Suite 1252
 Wichita, KS 67202
 Contact Geologist: Brian Fisher
 Contact Phone Nbr: 316-262-1378
 Well Name: Yost #1-6 (NW)
 Location: Sec. 6 - T28S - R29W
 API: #15-069-20488-0000
 Pool:
 State: Kansas
 Field: Renegade SE
 Country: USA

Scale 1:240 Imperial

Well Name: Yost #1-6 (NW)
 Surface Location: Sec. 6 - T28S - R29W
 Bottom Location:
 API: #15-069-20488-0000
 License Number: 5316
 Spud Date: 11/13/2014 Time: 9:00 PM
 Region: Gray County
 Drilling Completed: 11/25/2014 Time: 12:30 PM
 Surface Coordinates: 1537' FNL & 660' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2772.00ft
 K.B. Elevation: 2782.00ft
 Logged Interval: 3270.00ft To: 5379.00ft
 Total Depth: 5379.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude:
 Latitude:
 N/S Co-ord: 1537' FNL
 E/W Co-ord: 660' FEL

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 _Logan Walker

CONTRACTOR

Contractor: Val Energy
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 11/13/2014 Time: 9:00 PM
 TD Date: 11/25/2014 Time: 12:30 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2782.00ft Ground Elevation: 2772.00ft
 K.B. to Ground: 10.00ft

NOTES

Due to positive DST's in the Stotler and St. Louis limestone, 5 1/2" production casing was set and cemented to test the aforementioned zones through perforations and stimulation.

A Bloodhound gas detection system operated by Bluestem Environmental was employed on this well. ROP and gas data were imported into this log. Gamma ray and caliper curves were imported from the electrical log suite.

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

Respectfully submitted
Keith Reavis and Logan Walker

Falcon Exploration daily drilling report

DATE	LOG ANCHOR	REMARKS
11/18/2014		Geologist Keith Reavis on location @ 1400 hrs, 2880 ft, drilling ahead Ft. Riley, joined by geologist Logan Walker, drilling, Cottonwood to Neva
11/19/2014	3544	drilling Foraker, Stotler, cfs Stotler, small gas kick, short trip, TOH for DST #1, conducting DST #1, Complete & successful test, TOH w/tool, TTH w/bit, resume drilling
11/20/2014	3580	resume drilling the Tarkio, cfs Tarkio, gas kick, TOH w/bit for DST #2, conducting DST #2, complete & successful test, TOH w/tool, TTH w/bit resume drilling
11/21/2014	4300	drilling ahead
11/22/2014	5008	drilling ahead the Cherokee, bit trip @5008', TOH w/ bit, got stuck 0700hrs added oil to hole to get unstuck, back to drilling 2345hrs, drilling ahead
11/23/2014	5070	drilling ahead, Morrow, Mississippian, St. Louis & porosity has show that warrants test, TOH w/bit, broke drive chain on drawworks, repairs, TTH w/tool tight going in
11/24/2014	5148	conduct and complete DST #3, successful test, TTH w/bit, drill St. Louis B, show warrants test, conduct DST #4
11/25/2014	5193	complete DST #4, successful test, out with tools, in w/bit, rathole ahead for TD, TD @ 1230 hrs, 5379 ft. conduct logging operations,
11/26/2014	5379	complete logging operations, geologist off location 0100 hrs

Falcon Exploration, Inc well comparison sheet

DRILLING WELL					COMPARISON WELL			
Yost #1-6 (NW) 1537' FNL & 660' FWL Sec 6-T28S-R29W					Carl Love #1-1 660' FNL & 660' FWL Sec 11-T28S-R30W			
2782 KB					2791 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Chase	2625	157	2626	156	2637	154	3	2
Winfield	2704	78	2708	74	2714	77	1	-3
Towanda	2753	29	2754	28	2767	24	5	4
Fort Riley	2798	-16	2806	-24	2814	-23	7	-1
Cottonwood	3062	-280	3063	-281	3071	-280	0	-1
Neva	3134	-352	3127	-345	3142	-351	-1	6
Foraker	3236	-454	3236	-454	3249	-458	4	4
Stotler	3476	-694	3476	-694	3488	-697	3	3
Tarkio	3550	-768	3548	-766	3561	-770	2	4
Topeka	3750	-968	3750	-968	3759	-968	0	0
LeCompton	3926	-1144	3930	-1148	3942	-1151	7	3
Heebner	4118	-1336	4120	-1338	4130	-1339	3	1

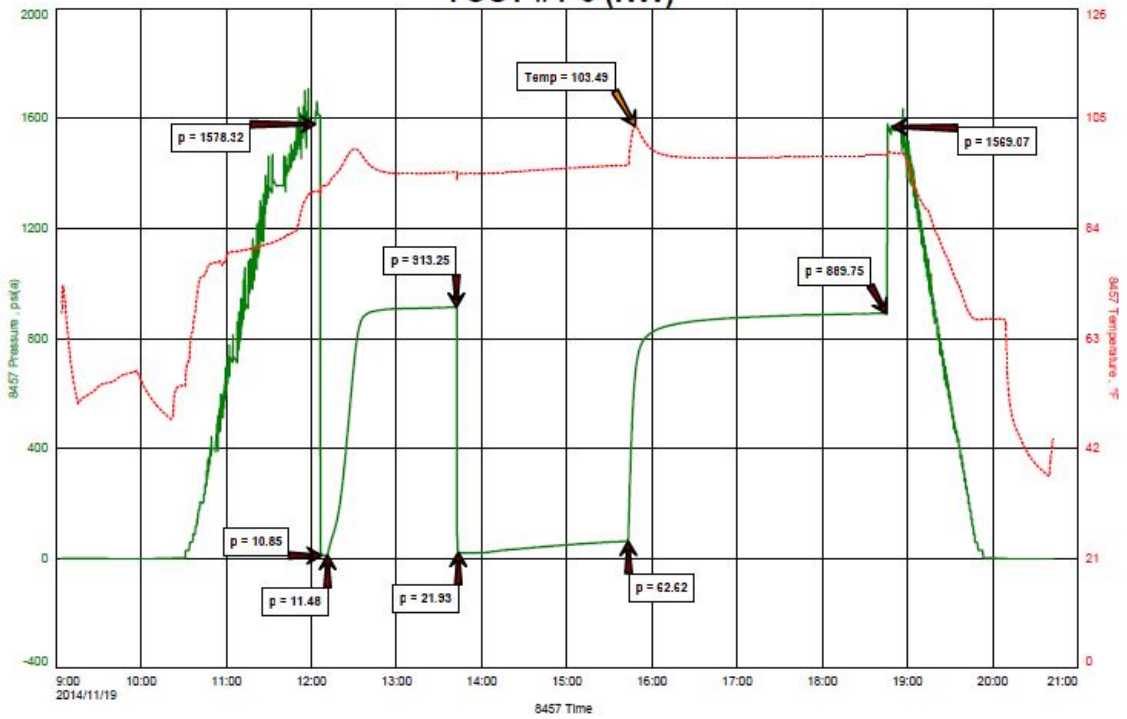
Toronto	4137	-1355	4137	-1355	4148	-1357	2	2
Douglas	4160	-1378	4160	-1378	4170	-1379	1	1
Lansing	4214	-1432	4213	-1431	4224	-1433	1	2
Stark	4539	-1757	4541	-1759	4555	-1764	7	5
Base KC	4680	-1898	4684	-1902	4696	-1905	7	3
Marmaton	4700	-1918	4702	-1920	4716	-1925	7	5
Pawnee	4779	-1997	4794	-2012	4795	-2004	7	-8
Cherokee	4831	-2049	4833	-2051	4842	-2051	2	0
Morrow Shale	5010	-2228	5010	-2228	5025	-2234	6	6
Miss St. Gen	5046	-2264	5040	-2258	5070	-2279	15	21
St. Louis A	5133	-2351	5137	-2355	5159	-2368	17	13
St. Louis B	5175	-2393	5178	-2396	5201	-2410	17	14
Total Depth	5379	-2597	5384	-2602	5300	-2509	-88	-93

DST #1

FALCON EXPLORATION, INC.
DST #1, STOTLER, 3440-3544
Start Test Date: 2014/11/19
Final Test Date: 2014/11/19

YOST #1-6 (NW)
Formation: DST #1, STOTLER, 3440-3544
Pool: WILDCAT
Job Number: T418

YOST #1-6 (NW)

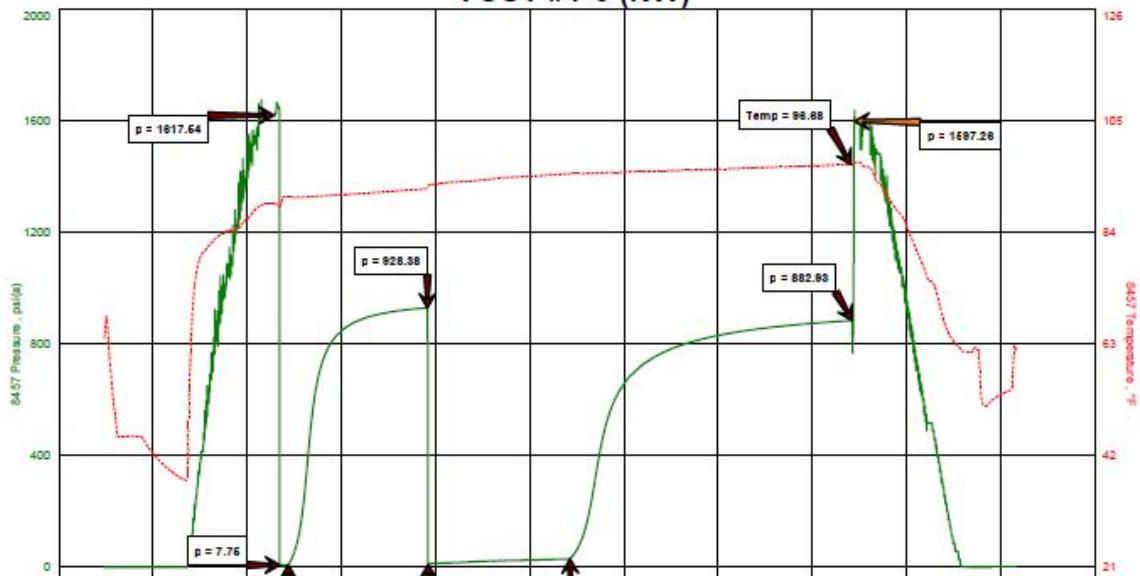


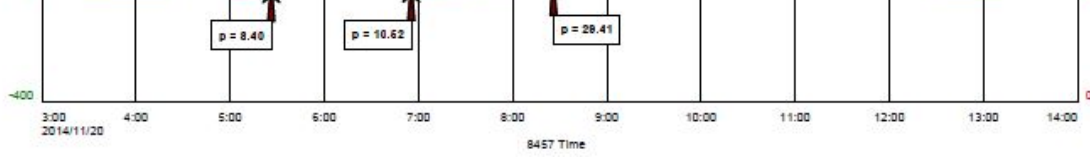
DST #2

FALCON EXPLORATION, INC.
DST #2, TARKIO, 3540-3580
Start Test Date: 2014/11/20
Final Test Date: 2014/11/20

YOST #1-6 (NW)
Formation: DST #2, TARKIO, 3540-3580
Pool: WILDCAT
Job Number: T419

YOST #1-6 (NW)



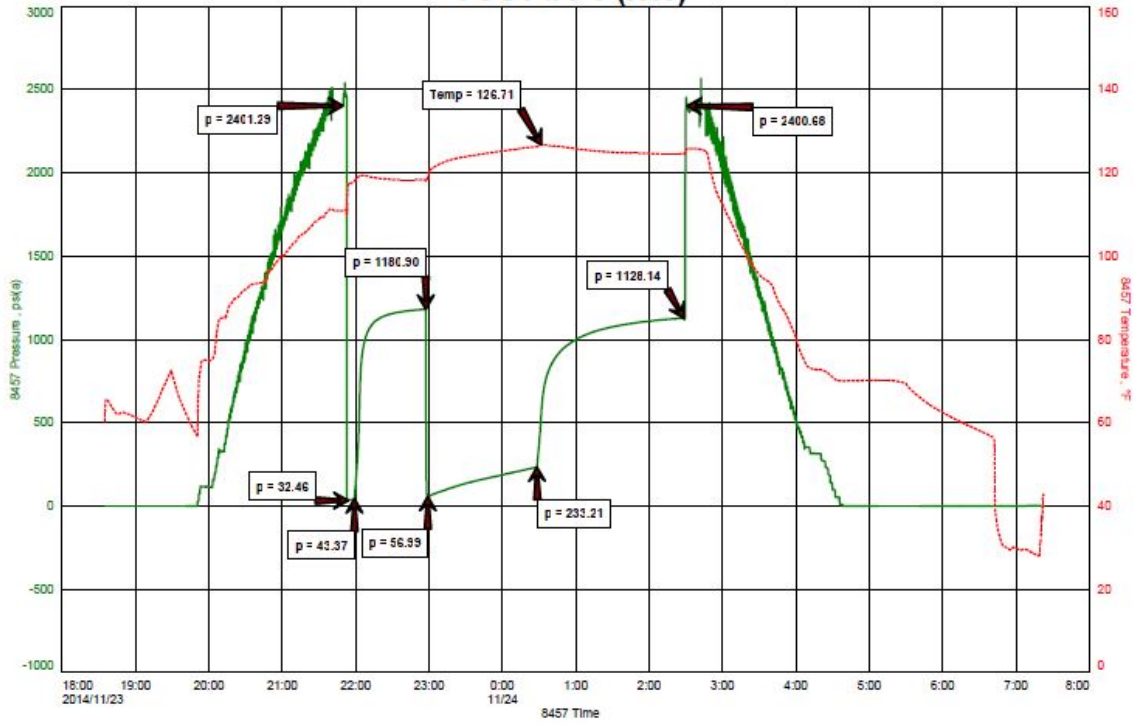


DST #3

FALCON EXPLORATION, INC.
 DST #3, ST. LOUIS "A", 5128-5148
 Start Test Date: 2014/11/23
 Final Test Date: 2014/11/24

YOST #1-6 (NW)
 Formation: DST #3, ST. LOUIS "A", 5128-5148
 Pool: WILDCAT
 Job Number: T420

YOST #1-6 (NW)

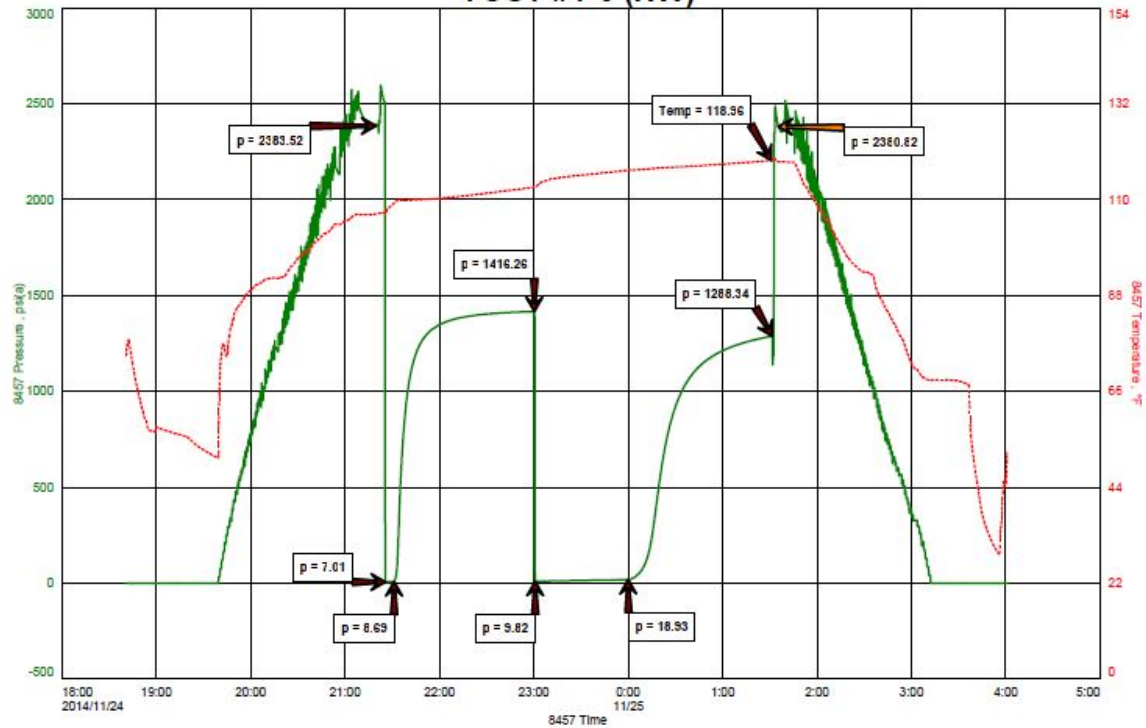


DST #4

FALCON EXPLORATION, INC.
 DST #4, ST. LOUIS "B", 5171-5193
 Start Test Date: 2014/11/24
 Final Test Date: 2014/11/25

YOST #1-6 (NW)
 Formation: DST #4, ST. LOUIS "B", 5171-5193
 Pool: WILDCAT
 Job Number: T421

YOST #1-6 (NW)



DIAMOND TESTING
 P. O. Box 157
 HOISINGTON, KANSAS 67544

GAS VOLUME REPORT

Company FALCON EXPLORATION, INC. Lease & Well No. YOST #1-6 (NW)
 Date 11-19-14 Sec. 5 Twp. 28 S Rge. 29 W Location _____ County GRAY State KS
 Drilling Contractor VAL ENERGY, INC. RIG #2 Formation STOTLER DST No. 1
 Remarks: GAS TO SURFACE 10 MIN. INTO FINAL FLOW PERIOD.

INITIAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
20	1/4 in.	3 in.	15,700
30	1/4 in.	5 in.	20,700
40	1/4 in.	9 in.	29,900
50	1/4 in.	10 in.	30,800
60	1/4 in.	14 in.	37,600
70	1/4 in.	17 in.	42,400
80	1/4 in.	21 in.	48,700
90	1/4 in.	24 in.	53,200
100	1/4 in.	26 in.	56,300
110	1/4 in.	28 in.	59,000
*120	1/4	30	61,900

ROCK TYPES

sdy lmst
 Lmst fw>7
 shale, gry
 shale, red
 Lmst fw<7
 shale, grn
 Carbon Sh

ACCESSORIES

MINERAL
 - Argillaceous
 ▲ Chert, dark
 ∞ Glaucinite
 P Pyrite
 △ Chert White

FOSSIL
 ∩ Bioclastic or Fragmental
 F Fossils < 20%
 ⊕ Oolite
 ⚡ Pellets
 ⚡ Oomoldic

STRINGER
 Dolomite

TEXTURE
 C Chalky
 CX Cryptocrystalline
 L Lithogr

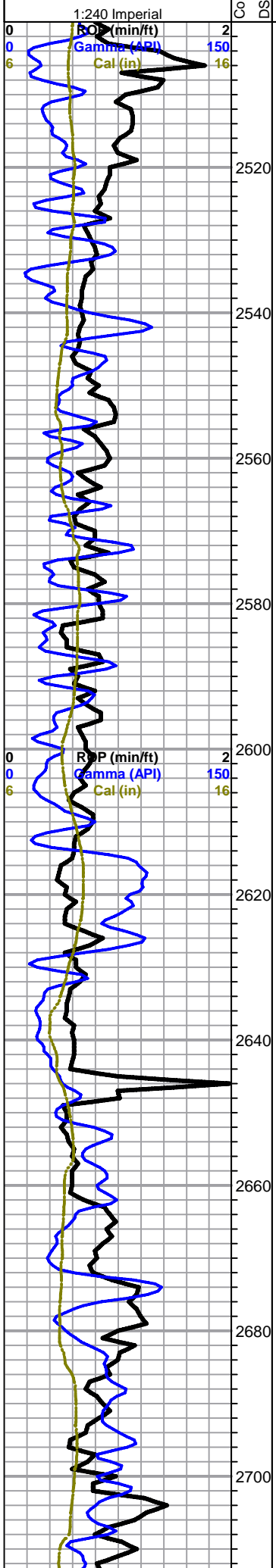
OTHER SYMBOLS

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

Oil Show
 ● Good Show
 ● Fair Show
 ● Poor Show
 ○ Spotted or Trace
 ○ Questionable Stn
 D Dead Oil Stn
 ■ Fluorescence
 * Gas

DST
 DST Int
 DST alt
 Core
 tail pipe

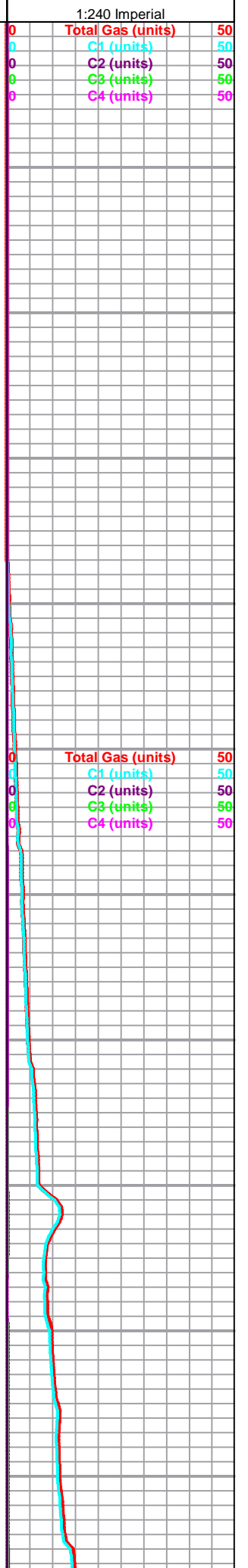
Curve Track #1			Geological Descriptions			TG, C1 - C5			
ROP (min/ft)		Depth Intervals DST Lithology Oil Show				Total Gas (units)			
Gamma (API)						C1 (units)			
Cal (in)						C2 (units)			
			C3 (units)						
			C4 (units)						



Falcon Exploration, Inc.
Yost #1-6 NW
1537' FNL & 660' FEL
Sec. 6 - T28S - R29W
Elevation 2772' KB
Surface Pipe 8 5/8" set @ 1842' KB

Chase Group 2625 +157

Winfield 2704 +78



2720
2740
2760
2780
2800
2820
2840
2860
2880
2900
2920

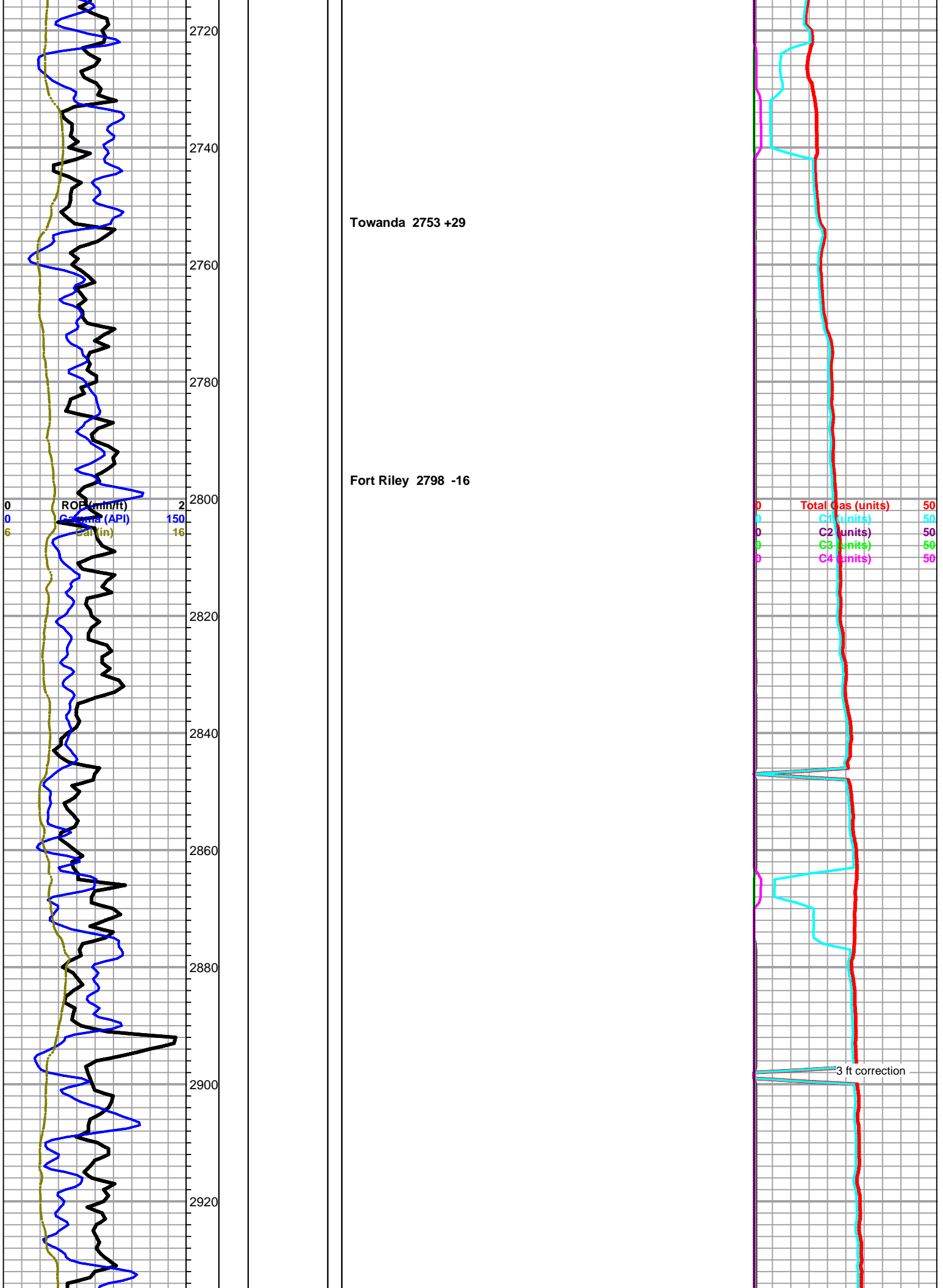
Towanda 2753 +29

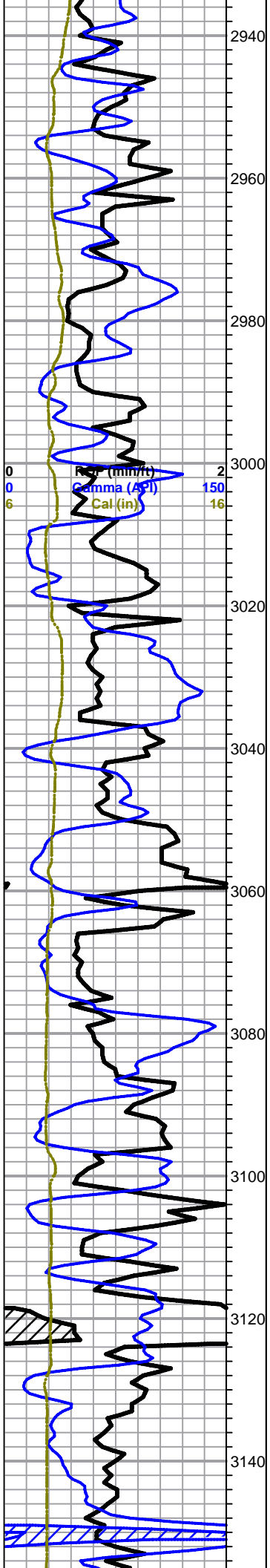
Fort Riley 2798 -16

0 ROF (min/ft) 2
0 Gamma (API) 150
6 Cal (in) 16

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

3 ft correction

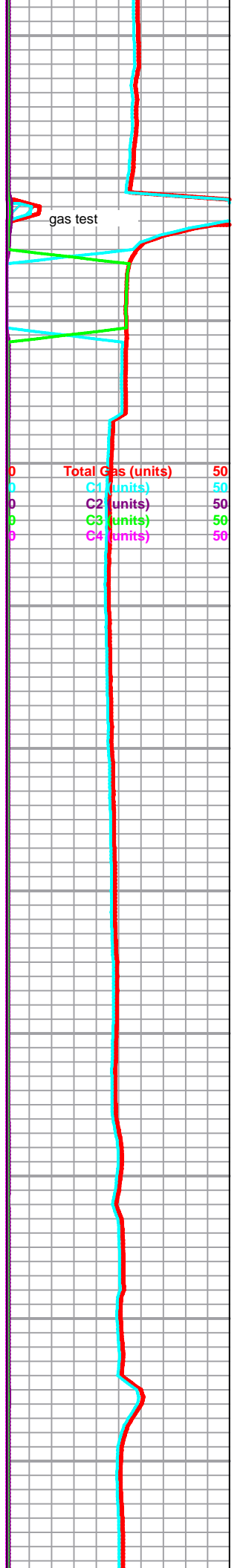




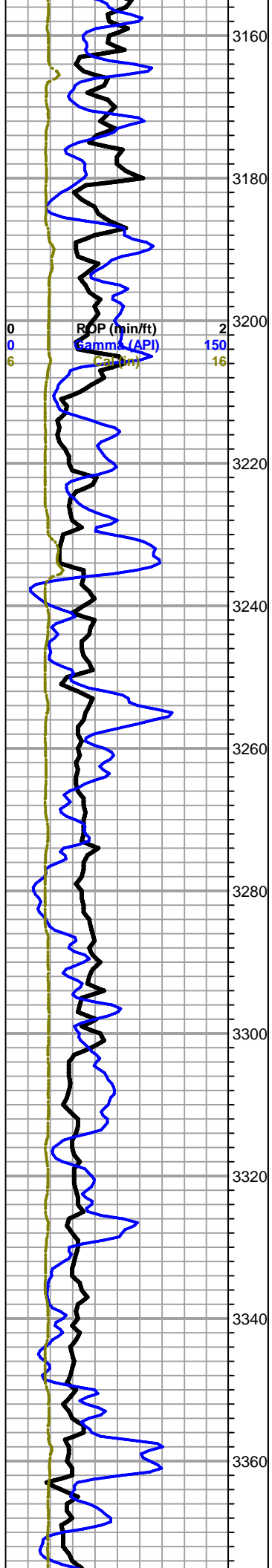
0 RSP (min/ft) 2
 0 Gamma (API) 150
 6 Cal (in) 16

Cottonwood 3062 -280

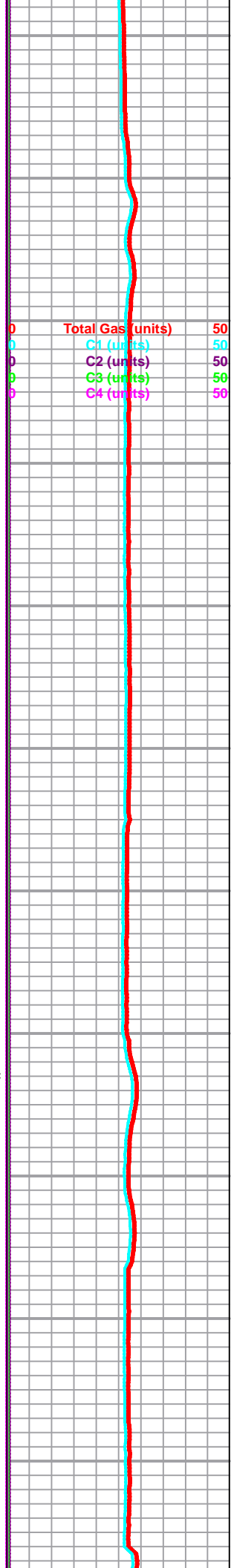
Neva 3134 -352



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



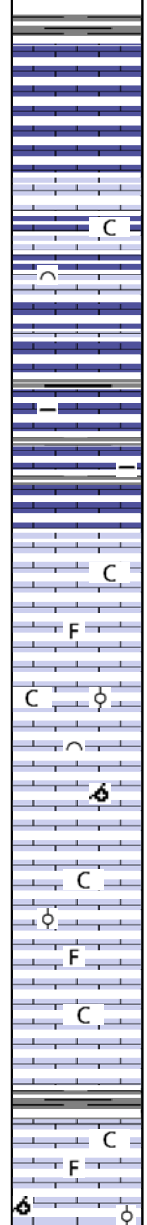
ROP (min/ft) 2
 Gamma (API) 150
 Gamma (API) 16



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

Foraker 3236 -454

20 ft wet and dry samples were ordered at 3200', crew did not start until 3270

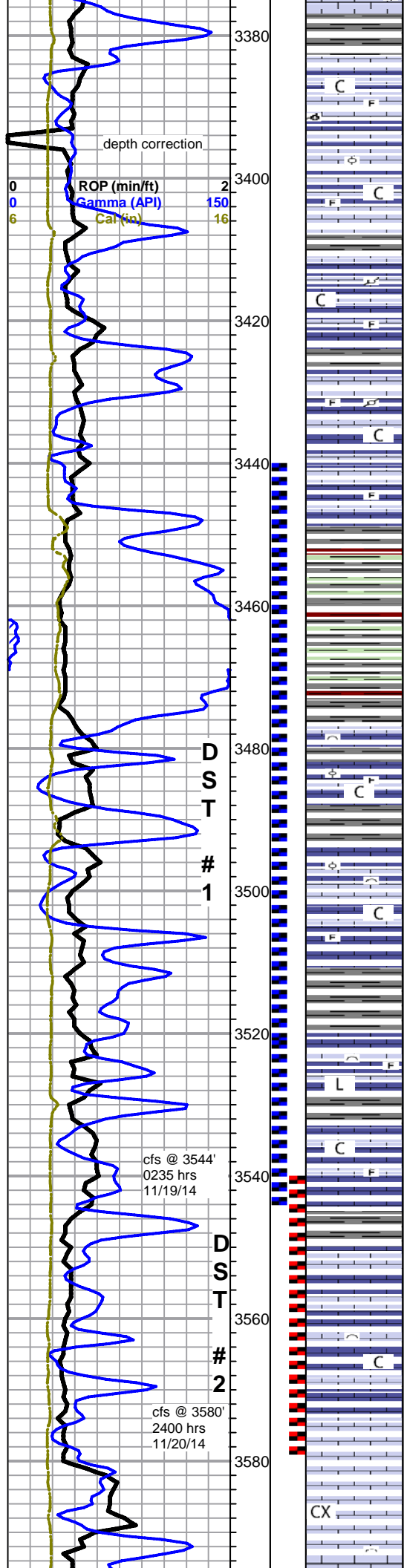


limestone, light gray to white, fossiliferous to bioclastic, poor visible porosity, abundant chalk, no shows

limestone to limey shale (beginning 3350 sample) dark gray to black, microcrystalline, dense to brittle, argillaceous/arenaceous, no visible porosity or shows

limestone, cream to light gray, microcrystalline, fossiliferous to bioclastic with scattered oolitic and oomoldic, some fair oomold porosity, pale yellow fluorescence, no shows, abundant chalk

as above, increasing chalk



limestone, cream to light gray, fossiliferous, some oomoldic and oolitic, influx limestone, cryptocrystalline, fossiliferous, fairly dense, abundant chalk, no shows, some pale fluorescence

limestone as above, with limestone, light gray to light brown mottled, fossiliferous, some slightly pelletal, chalky, no shows

as above

starting in 3500 sample, influx shales, soft mushy light green to gray shale, with brick red, grayish/red wash in samples

Stotler 3476 -694

limestone, cream to gray, mixed bioclastic to fossiliferous, some pelletal, abundant chalk, poor visible porosity, some small pieces white micro-oolitic, chalky/friable, no shows, scattered fluorescence

as above

DST #1 3440-3544 ft - 5-90-120-180 - rec 65 ft mud, 1st flow BOB 2 min, 2nd flow BOB immed. gas flow @ 20 min 15,700 cfd, gas flow @ 120 min 61,900 cfd (see gas chart in headers) IFP 11-11#, FFP 22-63#, ISIP 913#, FSIP 890#, HSH 1578-1569#, BHT 103 deg F

limestones as above, with influx limestones, gray/brown mottled, chalky fossiliferous, soft with limestone: variable gray to cream, cryptocrystalline, fossiliferous to lithographic, dense, no shows

Tarkio 3550 -768

Limestone, white to light gray, bioclastic, fossiliferous, oolitic to oomoldic, white fossiliferous chert, chalky, soft, poor visible porosity, friable, some fluorescence, no shows

DST #2 3540-3580 ft. - 5-90-90-180, rec 50 ft mud, 1st flow 1/4" bldg to 3 1/2", 2nd flow 1" bldg to BOB 70 min, IFP 8-8#, FFP 11-29 #, ISIP 928#, FSIP 883#, HSH 1618-1597#, BHT 97 deg

Limestone, white to cream to light gray, cryptocrystalline, bioclastic, fossiliferous, sub oolitic, white chert, soft, surface etching, poor visible porosity, friable, some fluorescence, no shows

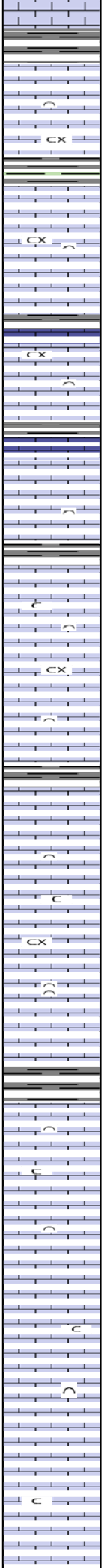
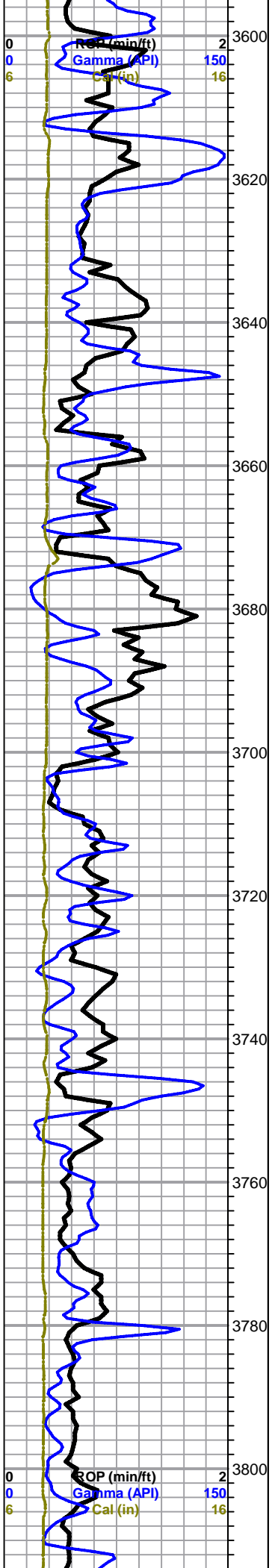
0	Total Gas (units)	50
0	C1 (units)	50
0	C2 (units)	50
0	C3 (units)	50
0	C4 (units)	50

Mud-Co Mud chk @ 3544 ft.
0955 hrs. 11/19/14
Vis. 50 Wt. 8.9
PV 15 YP 14
WL 8.0
Cake 1/32,
pH 10.5
CHL 3700 ppm
Ca 20 ppm
Sol 6.9 LCM 1#
DMC \$4473.95
CMC \$12494.15

-YOST1-6NWDST1all.pdf
-YOST1-6NWDST1Gast...

-YOST1-6NWDST2all.pdf

Mud-Co Mud chk @ 3580 ft.
1010 hrs. 11/20/14
Vis. 45 Wt. 8.8
PV 13 YP 14
WL 8.8
Cake 1/32,
pH 10.5
CHL 2300 ppm
Ca 20 ppm
Sol 3.5 LCM 1#
DMC \$1448.07



Limestone, same as above

Limestone, white, cryptocrystalline, bioclastic, fossiliferous, white chert, soft to dense, weahered, poor visible porosity, no shows

Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, chalky, soft to dense, weahered, surface etching, friable, no shows

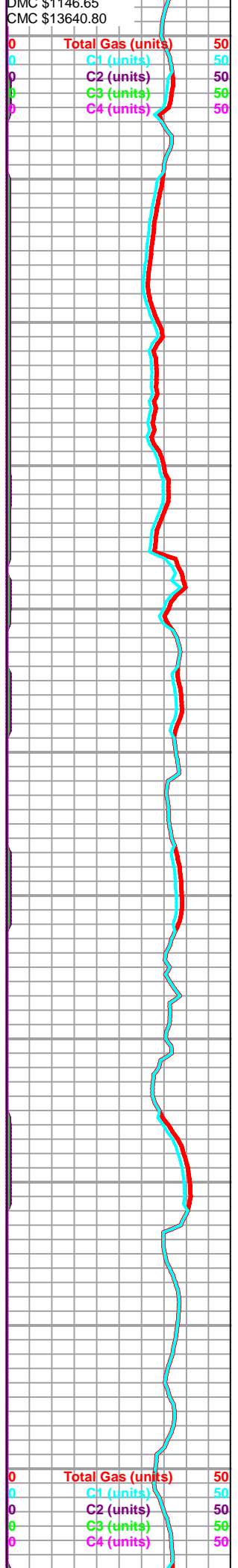
Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

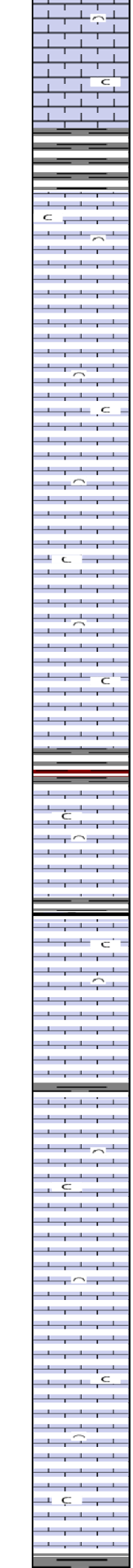
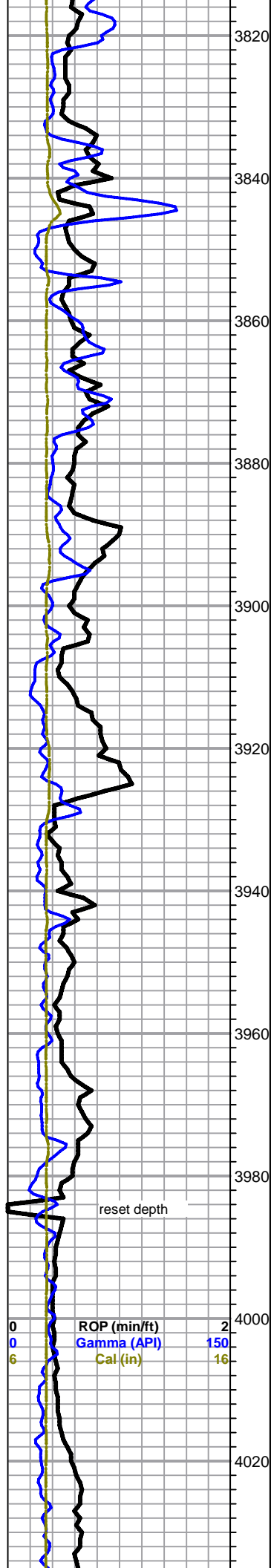
Topeka 3752 -968

Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, white fossiliferous chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

Limestone, same as above

Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, white chert. abundant chalky. soft to dense. weahered. surface etching.





friable, no shows

Limestone, white to cream, cryptocrystalline, bioclastic, fossiliferous, pyritic, white chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

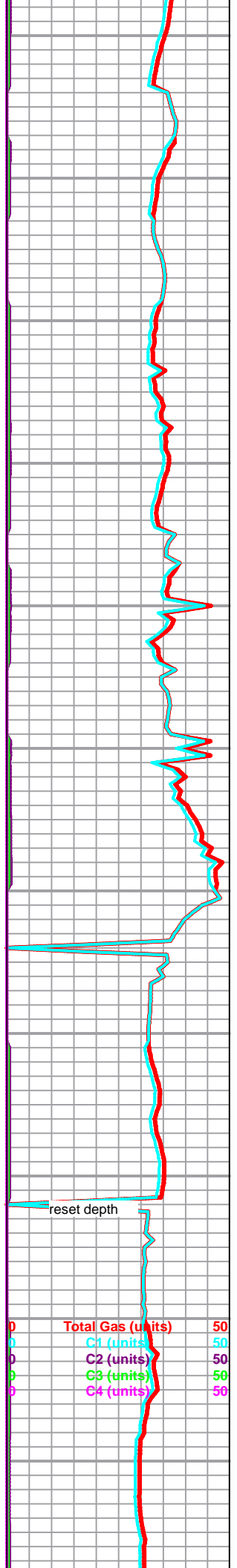
Limestone, same as above

LeCompton 3926 -1144

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white fossiliferous chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

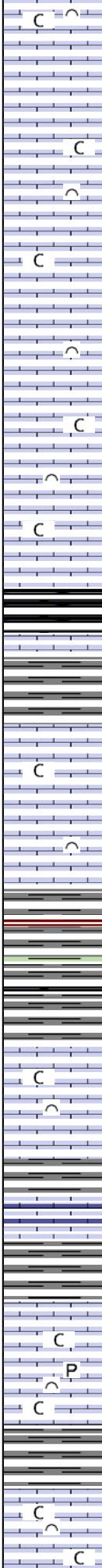
Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white chert, abundant chalky, soft to dense, weahered, surface etching, friable, no shows



white chert, abundant chalky, soft to dense, weathers, surface etching, friable, no shows

4040
4060
4080
4100
4120
4140
4160
4180
4200
4220
4240



Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white chert, abundant chalky, soft to dense, weathers, surface etching, friable, no shows

Heebner 4118 -1336

Shale, Black carbonaceous

Toronto 4137 -1355

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, sharp white chert, abundant chalky, soft to dense, weathers, no shows

Douglas 4160 -1378

Shale, gray wash

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white chert, abundant chalky, soft to dense, weathers, surface etching, friable, no shows, spotty bright green mineral fluorescence

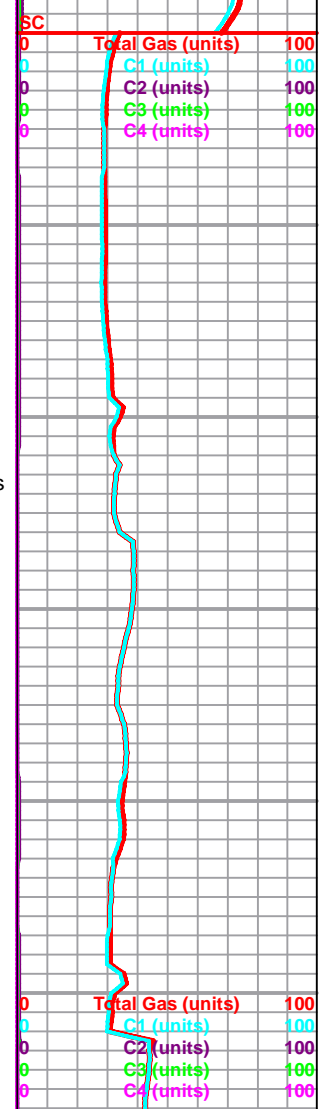
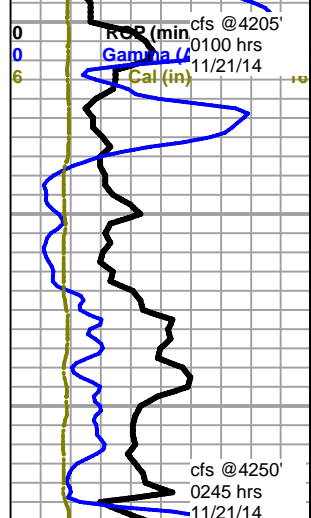
Brown Lime 4200 -1418

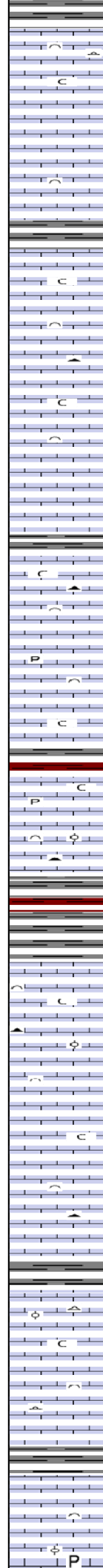
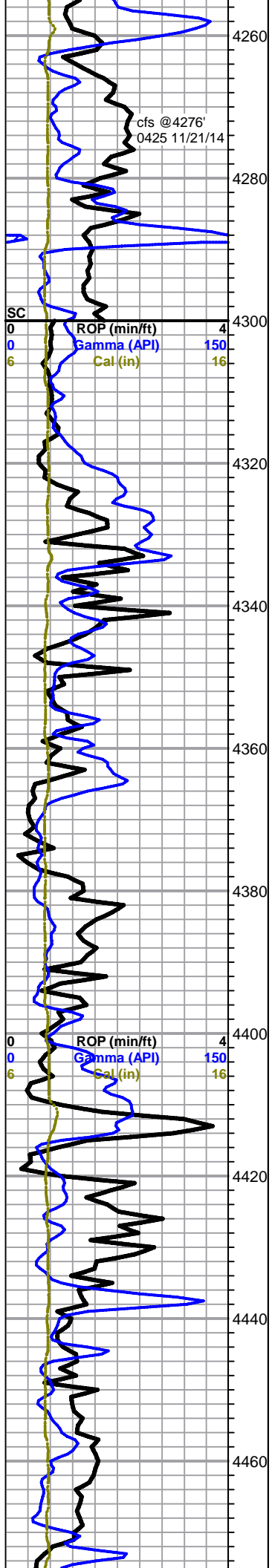
Limestone, cream to tan, microcrystalline, bioclastic, fossiliferous, weathered, soft to dense, no shows

Lansing 4214 -1432

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, pyritic, weathered, soft to dense, no shows, flooded with chalk, spotty fair green mineral fluorescence, trace white chert

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white to brown chert, weathered, flooded with chalk, soft to dense, no shows, spotty fair green mineral fluorescence, trace white chert





Limestone, white to cream to light gray, microcrystalline, sub bioclastic, fossiliferous, white chert, sub weathered, soft to dense, no fluorescence, no shows

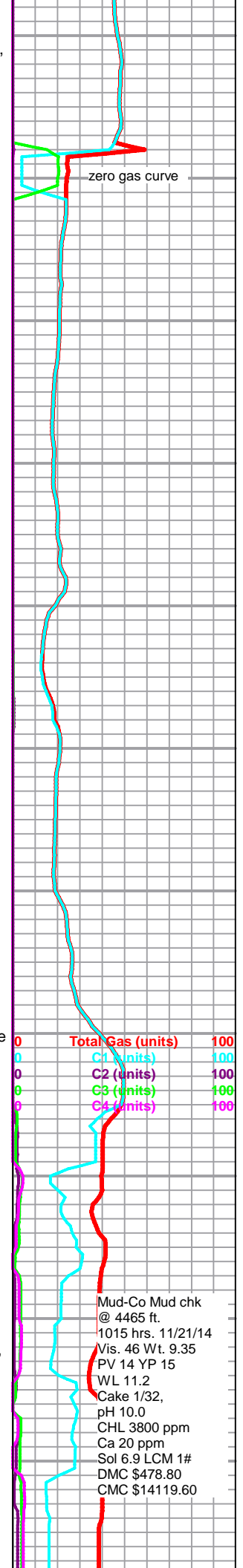
Limestone, white to cream to tan, bioclastic, fossiliferous, opaque to brown chert, weathered, sub chalky, soft to dense, sub friable, no fluorescence, no shows

Limestone, white to cream, microcrystalline, fossiliferous, pyritic, brown chert, friable, weathered, soft to dense, abundant chalky, spotty fair green mineral fluorescence, no shows

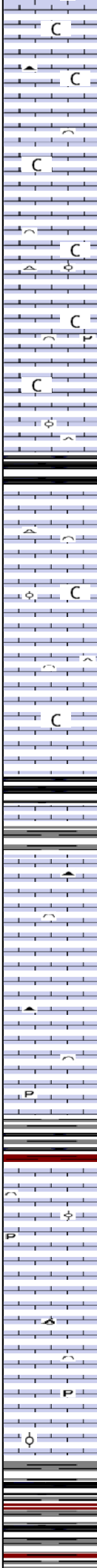
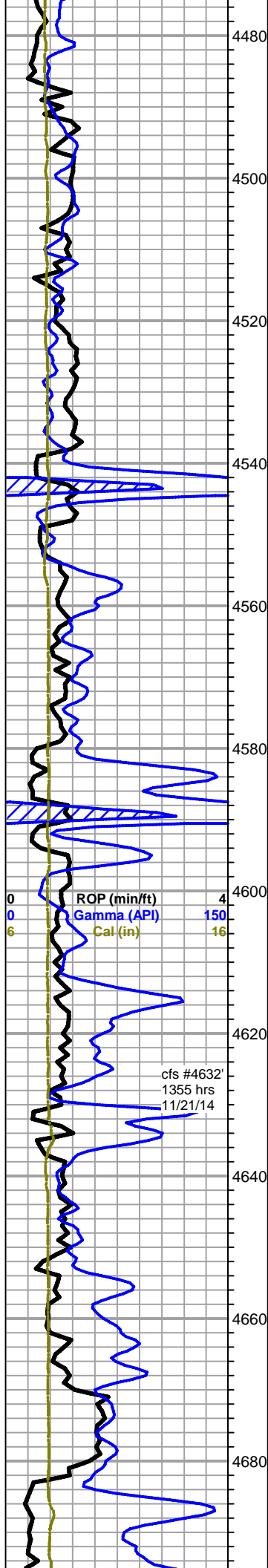
Limestone, white to cream, microcrystalline, fossiliferous, pyritic, brown chert, brown oolitic chert, sub oolitic, friable, weathered, poor visible porosity, soft to dense, chalky, spotty fair green mineral fluorescence, no shows

Limestone, white to cream, microcrystalline, fossiliferous, pyritic, opaque to gray fossiliferous chert, oolitic, friable, weathered, poor visible porosity, pin hole vugs, soft to dense, chalky, spotty green mineral fluorescence, no shows

Limestone, white, microcrystalline, fossiliferous, white fossiliferous chert, sub oolitic, friable, weathered, poor visible porosity, soft to dense, abundant chalky, spotty green mineral fluorescence, no shows



Mud-Co Mud chk @ 4465 ft. 1015 hrs. 11/21/14 Vis. 46 Wt. 9.35 PV 14 YP 15 WL 11.2 Cake 1/32, pH 10.0 CHL 3800 ppm Ca 20 ppm Sol 6.9 LCM 1# DMC \$478.80 CMC \$14119.60



Limestone, white to cream, microcrystalline, fossiliferous, pyritic, opaque to brown to gray fossiliferous chert, oolitic, friable, weathered, poor visible porosity, soft to dense, chalky, spotty green mineral fluorescence, no shows

Limestone, white to cream, microcrystalline, fossiliferous, pyritic, white to tan chert, oolitic, friable, weathered, poor visible porosity, soft to dense, abundant chalky, spotty green mineral fluorescence, no shows

Stark 4539 -1757

Shale, black carbonaceous

Limestone, white to cream, microcrystalline, fossiliferous, white fossiliferous chert, sub oolitic, friable, weathered, poor visible porosity, soft to dense, chalky, spotty green mineral fluorescence, no shows

Shale, black carbonaceous

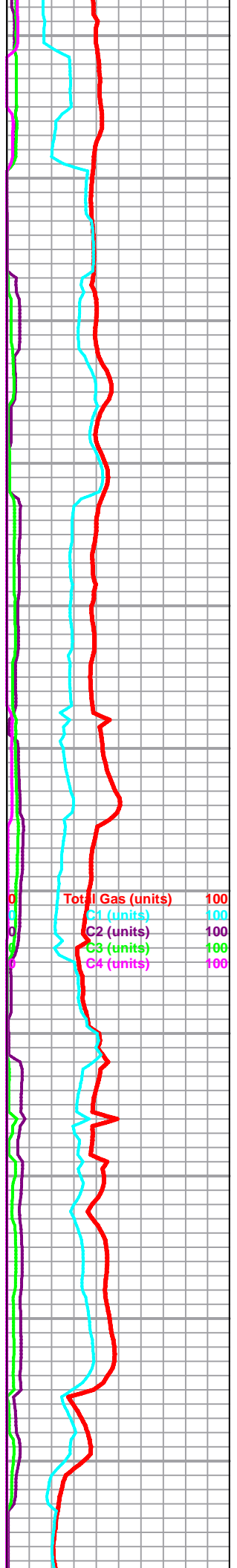
Limestone, white, bioclastic, fossiliferous, gray fossiliferous chert, weathered, soft, friable, no fluorescence no shows

Limestone, white, bioclastic, fossiliferous, gray fossiliferous chert, glauconite, pyritic, weathered, soft, friable, no fluorescence no shows

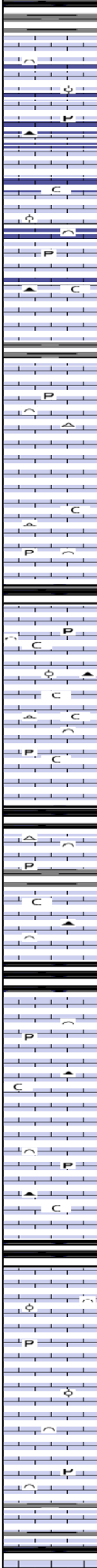
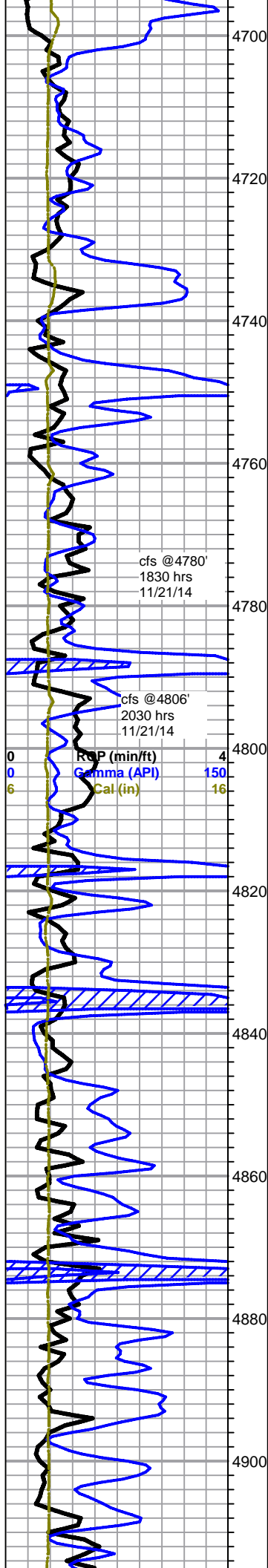
Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, pyritic, oolitic to oomoldic, white chert, sharp, soft to dense, spotty green mineral fluorescence, no shows

Base KC 4680 -1898

shale, gray wash, black carbonaceous, red, silty



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



Marmaton 4700 -1918

Limestone, white to cream, microcrystalline, sub bioclastic, fossiliferous, oolitic, pyritic, brown chert, sharp, soft to dense, spotty green mineral fluorescence, no shows

Limestone, same as above, chalky

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, pyritic, white chert, sharp, soft to dense, spotty dull green mineral fluorescence, no shows

Shale, black carbonaceous

Pawnee 4779 -1997

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white to gray chert, brown oolitic chert, pyritic, sharp, abundant chalky, soft, friable, spotty bright green mineral fluorescence, spotty gas bubbles

Limestone, white to cream, microcrystalline, sub bioclastic, fossiliferous, pyritic, white to gray chert, weathered, chalky, soft to dense, spotty green mineral fluorescence, no shows

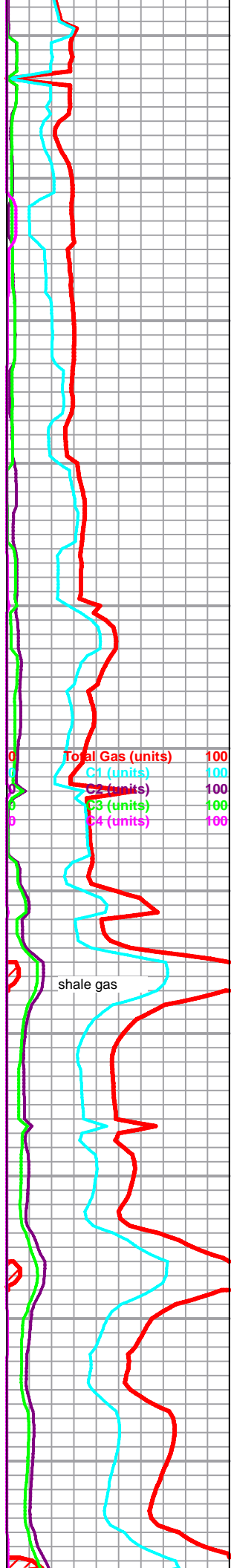
Shale, black carbonaceous

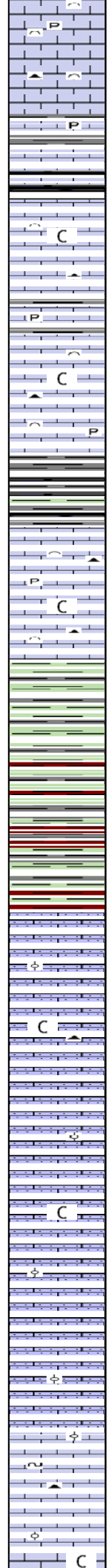
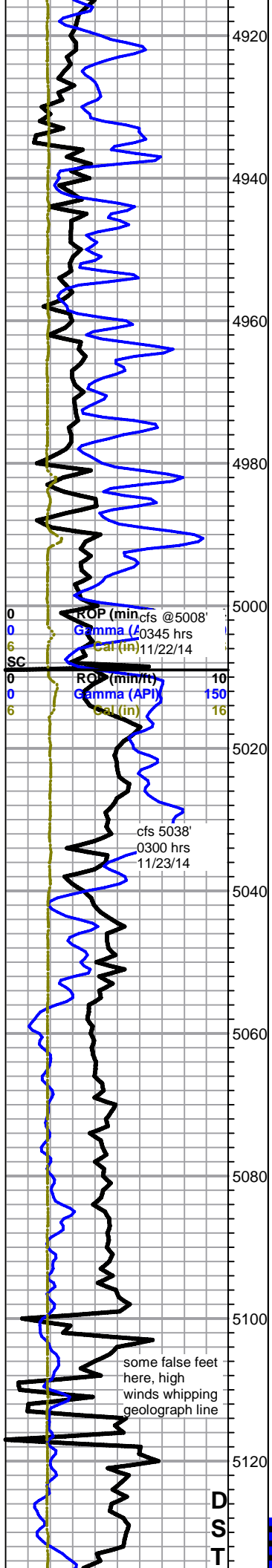
Cherokee 4831 -2049

Shale, black Carbonaceous

Limestone, white to cream to light gray, microcrystalline, bioclastic, fossiliferous, opaque to gray chert, pyritic, weathered, surface etching, chalky, spotty green mineral fluorescence, no shows

Limestone, cream, microcrystalline, bioclastic, fossiliferous, oolitic, pyritic, weathered, soft to dense, spotty green mineral fluorescence, no shows





Limestone, whie to cream, microcrystalline, bioclastic, fossiliferous, brown fossiliferous chert, pyritic, weathered, soft to dense, friable, spotty green mineral fluorescence, no shows

Limestone, whie to cream light gray, microcrystalline, sub bioclastic, fossiliferous, brown to opaque chert, pyritic, sub chalky, weathered, soft to dense, no shows

Limestone, whie to cream light gray, microcrystalline, sub bioclastic, fossiliferous, brown to gray chert, pyritic, sub chalky, weathered, soft to dense, no shows

Morrow 5010 -2271

grn shale, w/trace silty sand, vfg

transition into maroon shale, pale green mushy shale, pale green siltstones, brecciated pale green and maroon mottled limestone, some sandy/argill., abun chalk

Miss St. Gen 5046 -2264

Limestone to sandy limestone, white to cream to light gray, microcrystalline, fossilifeous, oolitic, orange chert, soft to dense, sub chalky, no shows

Limestone to sandy limestone, white, microcrystalline, fossilifeous, fine oolitic, soft to dense, no shows

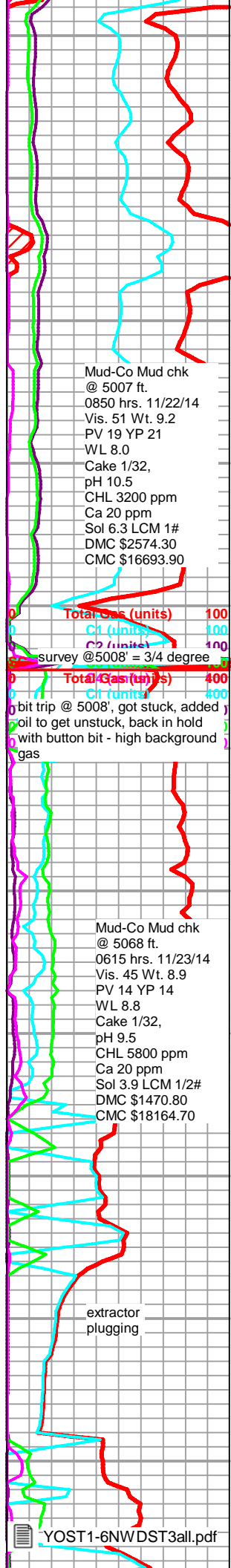
Limestone to sandy limestone, white, microcrystalline, fossilifeous, fine oolitic, soft to dense, no shows

DST #3 - 5128-5148 ft, 5-60-90-120, 1st flow BOB 1 min, 2nd flow GTS 18 min TSTM, rec 4400 ft GIP & 695 ft GMCO (17% gas 81% oil 29% mud, gravity 25) IFP 32-43#, FFP 57-233#, ISIP 1181#, FSIP 1128#, HSH 24-1-2401#, BHT 127 deg F

Limestone, same as above, grading to: fine to medium, round to flatten oolitic, pyritic, gluaconite, opaque/orange chert, sub chalky, poor porosity, no show

St. Louis A 5133 -2351

Limestone, same as above, grading to: fine to medium, mature to fairly



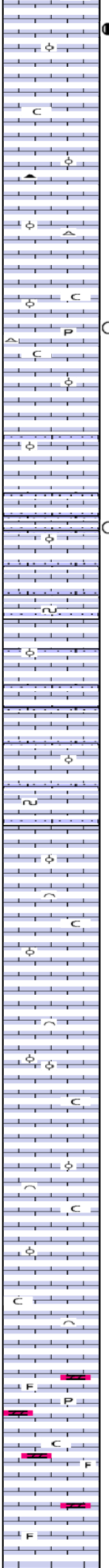
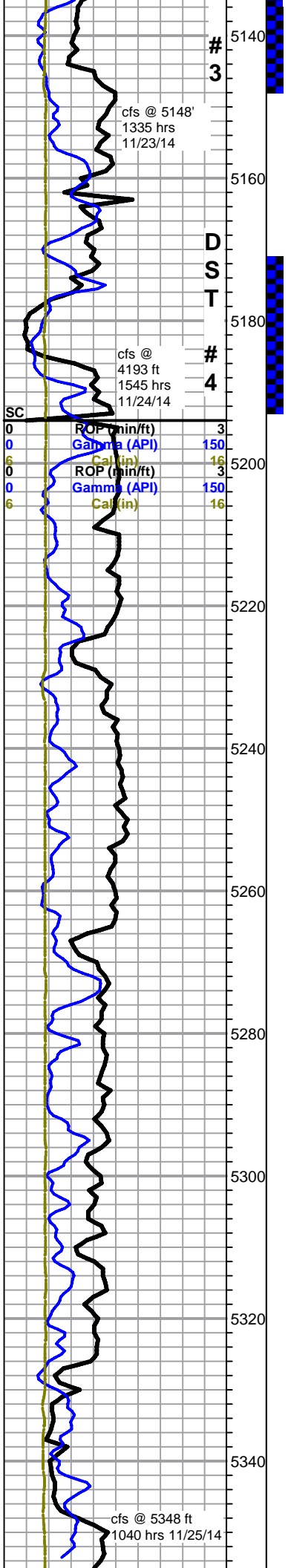
Mud-Co Mud chk @ 5007 ft. 0850 hrs. 11/22/14
 Vis. 51 Wt. 9.2
 PV 19 YP 21
 WL 8.0
 Cake 1/32,
 pH 10.5
 CHL 3200 ppm
 Ca 20 ppm
 Sol 6.3 LCM 1#
 DMC \$2574.30
 CMC \$16693.90

Total Gas (units) 100
 C1 (units) 100
 C2 (units) 100
 survey @5008' = 3/4 degree

Total Gas (units) 400
 C1 (units) 400
 C2 (units) 400
 bit trip @ 5008', got stuck, added
 oil to get unstuck, back in hold
 with button bit - high background
 gas

Mud-Co Mud chk @ 5068 ft. 0615 hrs. 11/23/14
 Vis. 45 Wt. 8.9
 PV 14 YP 14
 WL 8.8
 Cake 1/32,
 pH 9.5
 CHL 5800 ppm
 Ca 20 ppm
 Sol 3.9 LCM 1/2#
 DMC \$1470.80
 CMC \$18164.70

extractor plugging



mature oolitic, well to fair sorted ooids, white fossiliferous chert, abundant chalk, poor visible porosity, some inter-oolite staining and scattered fair inter-oolite porosity and framework, free bleeding oil in tray, free oil on break, good odor, fair to poor fluorescence, excellent bright white cut

limestones, mixed gray to cream, dense flattened oolitic to compact fossiliferous, some grainy, abundant chert, rose, gray, smokey gray, translucent gray and white, some with black speckled inclusions, some fossiliferous and slightly spiculitic, no shows

St Louis B 5175 -2393

limestone, white to cream, oolitic, large, mature, rounded to oblong, some friable clusters with no real visible cement, good inter-oolite porosity and staining, slight show oil on break, with abundant loose oolites in bottom of tray, abundant well cemented oolitic specimens, same oolites, well cemented, faint odor in cup, poor fluorescence, slow milky cut on stained samples, abundant chalk in samples

back in hole after DST #4 with PDC bit - note scale change

poor samples, trip trash

limestone, cream to gray, flattened oolitic, chalky, with limestone, variable gray, micro-oolitic, sandy, glauconitic, weathered white to light gray grainy oolitic-bioclastic mix, chalky, trace glauconitic, marked decrease in cherts from above, 5240 sample, trace tan fine oolitic, well rounded and sorted, interoolite stain and no show free oil when broken, no other shows noted

DST #4 - 5171-5193 ft, 5-90-60-90, rec. slo&wcm, IFP 8-9#, FFP 10-19#, ISIP 1416#, FSIP 1238#, HSH 2384-2381#, BHT 119 deg F

as above

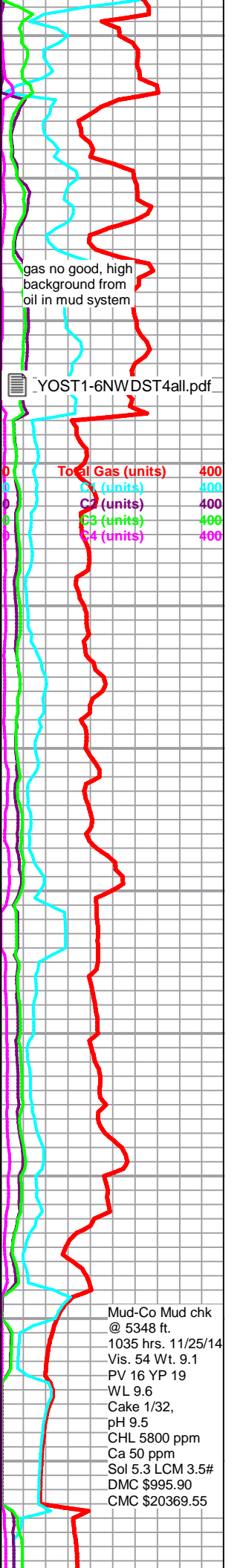
sandy facies from above dropping out, grading to mostly white to gray mottled limestone, variable oolitic to flattened oolitic-bioclastic mix, weathered? and chalky, poor visible porosity, no shows, trace tan fine oolitic in 5290 sample (see above), well rounded and sorted, interoolite stain and no show free oil when broken, no other shows noted

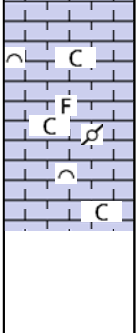
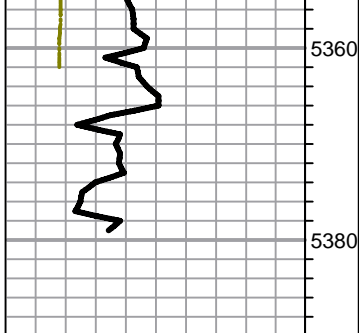
grades to limestone, light gray to cream and white, flattened oolitic to bioclast-fossiliferous, grainy, some layered, chalky in part but fairly dense, no visible porosity, with scattered dense cemented mature oolitic, no shows

as above

limestone as above, influx limestone, light gray to grayish white, fossiliferous, chalky, distinct arenaceous texture, trace pyritic, scattered very fine crystalline dolomite, tan, dense, no porosity, good green mineral fluorescence

5360-70 samples, as above





cfs 30 min - limestone, white to tan and light gray, slight mottling, chalky bioclastic to fossiliferous, arenaceous facies and dolomite dropst out, abundant chalk, heavy white wash, 60 min sample, a.a. with flood white to tan mottled, pelletal/bioclastic mix, very chalky, abundant chalk as in 30 min sample, no shows

Rotary TD 5379 ft, 1230 hrs, 11/25/14
Pioneer Log TD 5384 ft
complete logging operations 0020 hrs - 11/26/14

