

Scale 1:240 Imperial

Well Name: Gayle Fry #1-2 (NE)
Surface Location: 660' FNL_660' FEL
Bottom Location:
API: 15-069-20484-00-00
License Number: 5316
Spud Date: 9/17/2014 Time: 3:00 PM
Region: Gray County
Drilling Completed: 9/29/2014 Time: 2:30 AM
Surface Coordinates:
Bottom Hole Coordinates:
Ground Elevation: 2790.00ft
K.B. Elevation: 2800.00ft
Logged Interval: 2600.00ft To: 5440.00ft
Total Depth: 5440.00ft
Formation: Stotler/Miss
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Falcon Exploration, Inc
Address: 125 N. Market STE 1252
Wichita, KS 67202
Contact Geologist: Brian Fisher
Contact Phone Nbr: 316-262-1378
Well Name: Gayle Fry #1-2 (NE)
Location: 660' FNL_660' FEL
Pool: API: 15-069-20484-00-00
State: KS Field: Wildcat
Country: USA

LOGGED BY



Company: Shelby Resources, LLC
Address: 445 UNION BLVD. Suite 208
LAKEWOOD, CO. 80228
Phone Nbr: 203-671-6034
Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Falcon Exploration, Inc Gayle Fry #1-2 (NE) was drilled to a total depth of 5440', bottoming in the Mississippian Salem .
4 DST's were conducted in the Stotler, Lansing Kansas-City, and Mississippian St. Louis zones. The DST reports can be found at the bottom of this log.
Due to the DST results, sample shows, gas kicks, and log analysis it was determined to set 4 1/2" production casing and further test the well through perforations. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.
Respectfully Submitted,
Jeremy Schwartz
Geologist

CONTRACTOR

Contractor: Val Drilling
Rig #: 2
Rig Type: mud rotary
Spud Date: 9/17/2014 Time: 3:00 PM
TD Date: 9/29/2014 Time: 2:30 AM
Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2800.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 2790.00ft

Falcon Exploration, Inc

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
09/21/2014	2750'	Geologist Jeremy Schwartz on location @ ~0800hrs, 2800 ft., drlg ahead, Rig down for repairs and extractor motor replacement from 1945hrs - 2030hrs, drlg ahead, replacement motor bad, rig down from 2045hrs - 2115hrs to replace extractor motor with new motor, Resume DRLG,
09/22/2014	3585'	DRLG ahead, CFS @ 3505', Resume DRLG , CFS @ 3517', Resume DRLG CFS @ 3585', Resume DRLG, CFS @ 3670', Resume DRLG, CFS @ 3855, Short Trip, Drop Survey, Strap Out for DST #1 in the Stotler, Successful test,
09/23/2014	3855'	Resume DRLG, CFS @ 4135', Resume DRLG, CFS @ 4236', Short Trip, Drop Survey, OOH for DST #2 in the LKC A-B, Successful Test,
09/24/2014	4236'	Resume DRLG, Rig down for repairs, Resume DRLG, CFS @ 4366', Short Trip, OOH for DST #3 in Lansing "G",
09/25/2014	4366'	Successful Test, Resume DRLG ahead, CFS @ 4590', Resume DRLG
09/26/2014	4990'	CFS @ 4810', Resume DRLG, CFS @ 4990', CTCH 1 hour, Drop Survey, Strap out for Bit Trip, Back in with Button Bit, Resume DRLG ahead, CFS @ 5033', Resume DRLG, CFS @ 5053', Resume DRLG,
09/27/2014	5158'	CFS @ 5158', Resume DRLG, CFS @ 5180', Short Trip, OOH for DST #4 in the St. Louis upper "B" porosity, Successful Test, Resume DRLG
09/28/2014	5220'	DRLG ahead, CFS @ 5215', Resume DRLG, CFS @ 5230', Resume DRLG, CFS @ 5390', Resume DRLG ahead to TD of 5440', TD reached @ 0230hrs, CTCH 1hour, Short Trip, Drop Survey, OOH to conduct Logging Operations, Loggers on location @ 0900hrs, Logging Operations complete @ 1500hrs, Geologist Jeremy Schwartz released @ 1815hrs


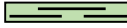





Falcon Exploration, Inc

well comparison sheet

	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Gayle Fry #1-2 (NE)				Andee Fry #1-2				Gregory Love #1-1			
	660' FNL & 660' FEL				200'FSL & 2360'FWL				660'FSL & 660'FWL			
Sec. 2-T28S-R30W				Sec. 2-T28S-R30W				Sec. 1-T28S-R30W				
2800 KB				2811 KB		Structural Relationship		2801 KB		Structural Relationship		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Chase Group	2654	146	2628	172	2650	161	-15	11	2640	161	-15	11
Winfield	2725	75	2708	92	2720	91	-16	1	2713	88	-13	4
Towanda	2768	32	2755	45	2770	41	-9	4	2760	41	-9	4
Fort Riley	2813	-13	2807	-7	2818	-7	-6	0	2810	-9	-4	2
Cottonwood Por.	3052	-252	3054	-254	3066	-255	3	1	3054	-253	1	-1
Stotler	3480	-680	3480	-680	3489	-678	-2	-2	3472	-671	-9	-9
Tarkio	3553	-753	3552	-752	3562	-751	-2	-1	3545	-744	-9	-8
Topeka	3740	-940	3750	-950	3758	-947	7	-3	3744	-943	3	-7
Heebner	4100	-1300	4102	-1302	4118	-1307	7	5	4106	-1305	5	3
Lansing	4202	-1402	4204	-1404	4220	-1409	7	5	4208	-1407	5	3
Stark	4539	-1739	4542	-1742	4556	-1745	6	3	4543	-1742	3	0
Marmaton	4692	-1892	4696	-1896	4710	-1899	7	3	4701	-1900	8	4
Pawnee	4782	-1982	4790	-1990	4804	-1993	11	3	4788	-1987	5	-3
Cherokee	4825	-2025	4830	-2030	4849	-2038	13	8	4837	-2036	11	6

Morrow	5012	-2212	5026	-2226	5039	-2228	16	2	5028	-2227	15	1
Miss St. Gen	5068	-2268	5084	-2284	5104	-2293	25	9	5072	-2271	3	-13
St. Louis "B" Por	5174	-2374	5178	-2378	5218	-2407	33	29	5175	-2374	0	-4
Salem	5352	-2552	5352	-2552	5376	-2565	13	13	NP	NP	NP	NP
RTD	5440	-2640	5352	-2552	5450	-2639	-1	87	5309	-2508	-132	-44
LTD		2800	5443	-2643	5456	-2645	5445	2	5314	-2513	5313	-130

ROCK TYPES

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

ACCESSORIES

MINERAL

- △ Chert White
- ▲ Chert, dark

FOSSIL

- ∩ Bioclastic or Fragmental
- F Fossils < 20%
- Oolites

STRINGER










- ~ Chert
- Limestone
- Sandstone
- ▬ Shale
- ▬ green shale
- ▬ red shale

TEXTURE

- C Chalky

OTHER SYMBOLS

MISC

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

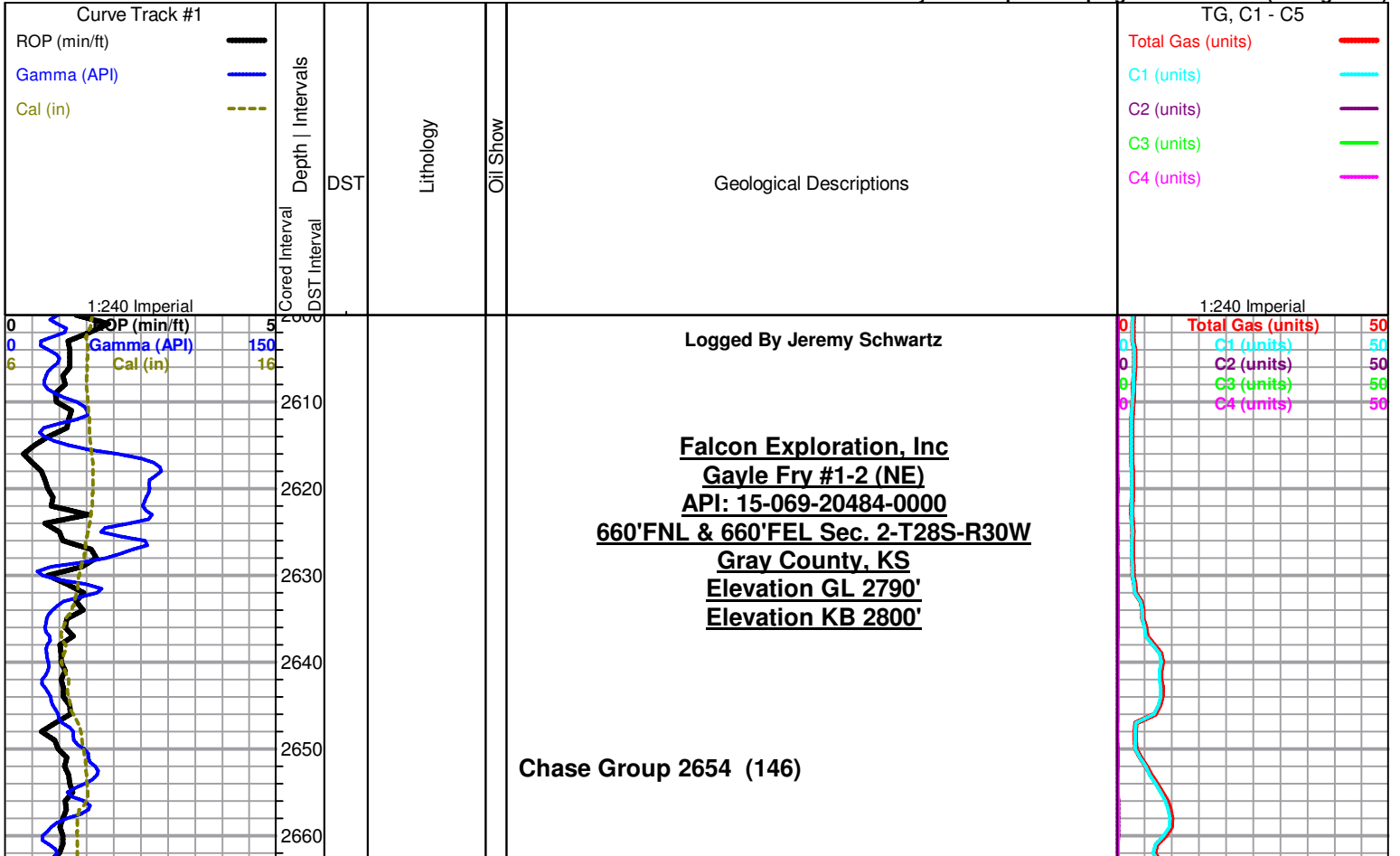
Oil Show

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

DST

- DST Int
- DST alt

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2670
2680
2690
2700
2710
2720
2730
2740
2750
2760
2770
2780
2790
2800
2810
2820
2830
2840
2850
2860
2870
2880

Winfield 2725 (75)

Towanda 2768 (32)

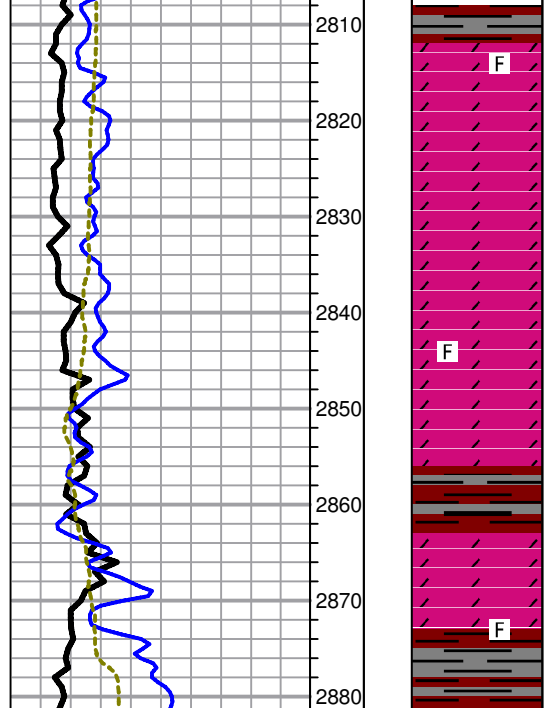
Fort Riley 2813 (-13)

Dolomite, cream to gray with some scattered light gray and white, micro-xln, some sub-sucrosic, some scattered slightly fossiliferous, poorly developed with poor visible porosity, very fine crushed up sample with abundant red and gray shale and anhydrite, no show or odor

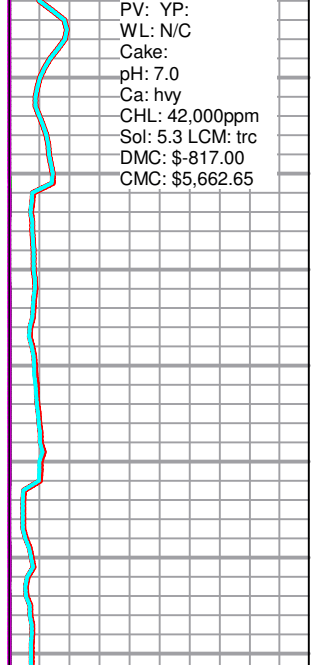
Dolomite as above, some scattered sucrosic, few very scattered chips with several small vugs, barren, abundant shale and anhydrite, very fine poor sample, no show or odor

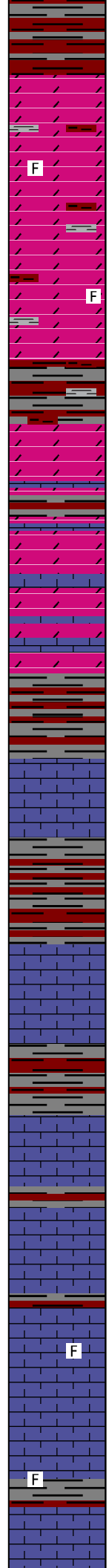
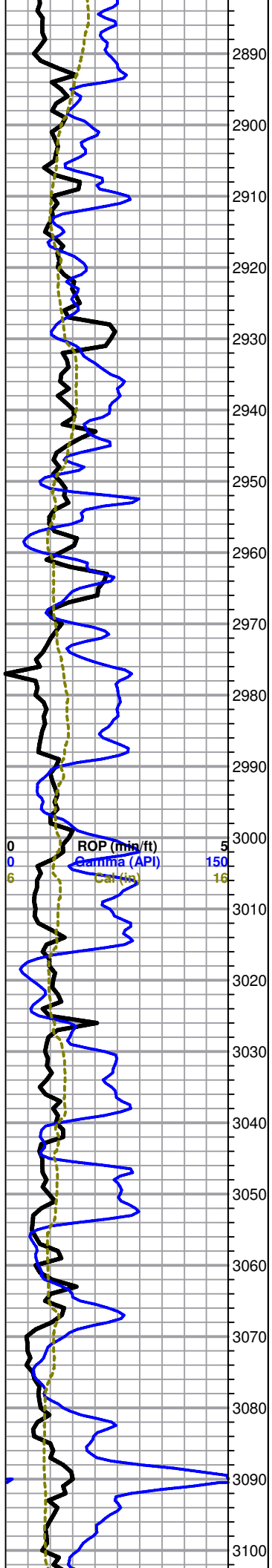
As above, still very fine poor sample with abundant shale and anhydrite, no show or odor

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



Total Gas (units) 50
Mud-Co Mud chk 50
2824' 50
9/21//14 50
Vis: 32 Wt: 9.4 50
PV: YP:
WL: N/C
Cake:
pH: 7.0
Ca: hvy
CHL: 42,000ppm
Sol: 5.3 LCM: trc
DMC: \$-817.00
CMC: \$5,662.65





Dolomite, abundant red and gray shale, and some scattered anhydrite as above, poor sample, no show or odor

Begin 20' Wet and Dry Samples

Dolomite, cream to gray with some very scattered white, micro-xln, mostly dense, some sub-sucrosic, poor visible porosity, also with abundant red and gray shale, samples still poor, no show or odor

Dolomite and shale as above, poor sample, no show or odor

Mostly dolomite and shale as above, with some scattered LS, cream to gray, micro-xln, some fossiliferous, poor visible porosity, poor sample, no show or odor

As above, no show or odor

As above, with influx of cream to gray LS with some very scattered white, some fossiliferous, poor visible porosity, no show or odor

As above

Mostly cream to white LS with some gray, micro-crypto xln, poor visible porosity, still abundant shales but appear to be slightly dropping out with influx of LS, sample quality still poor but cleaning up some, no show or odor

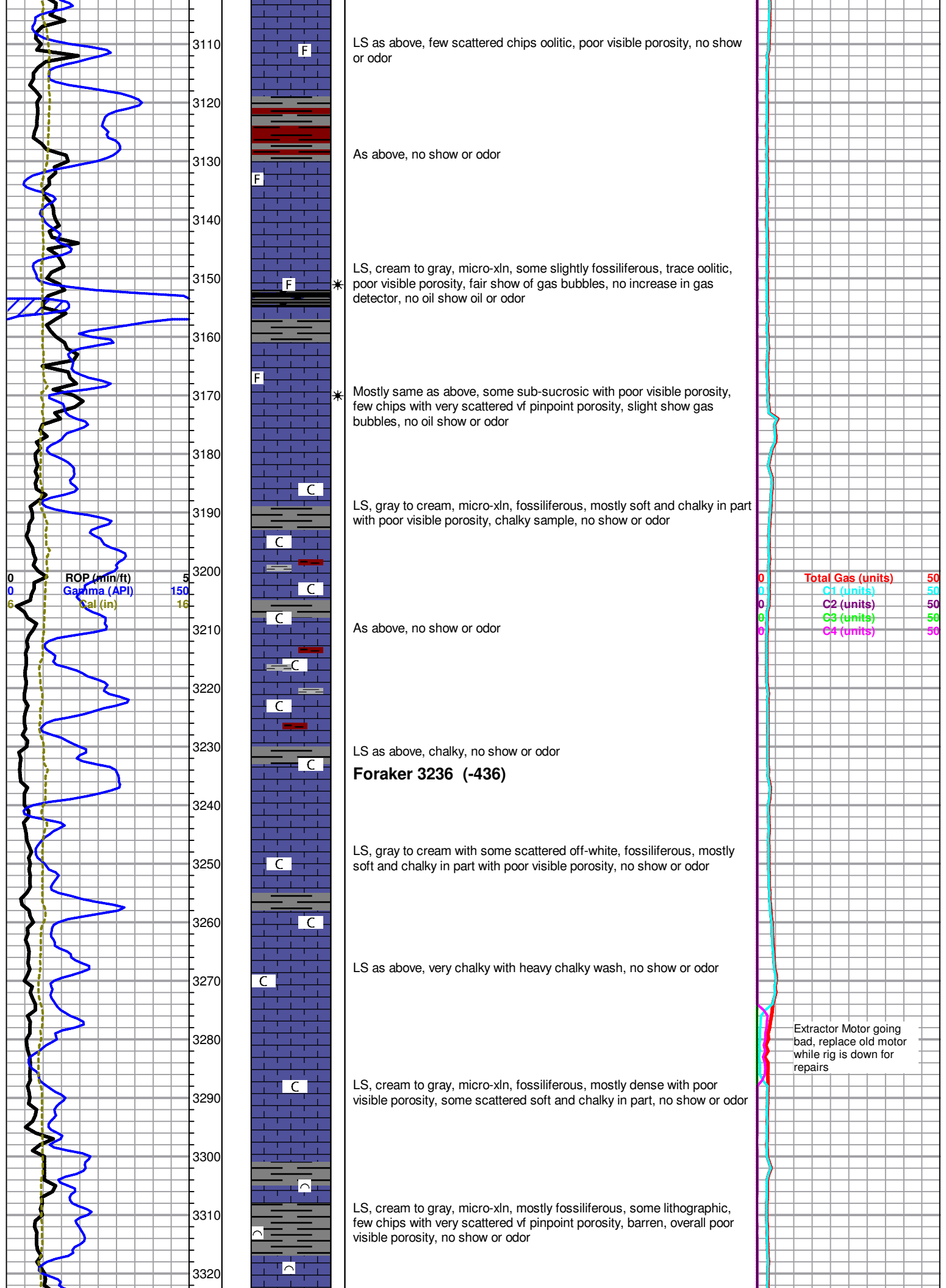
Cottonwood Porosity 3052 (-252)

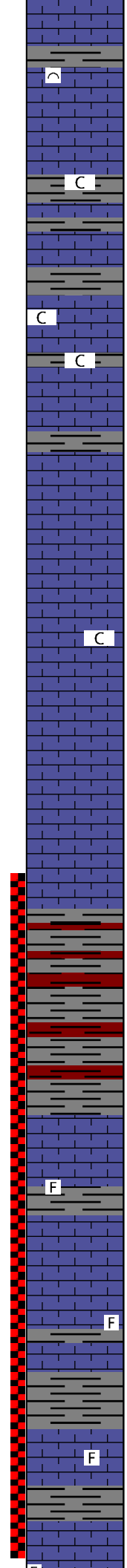
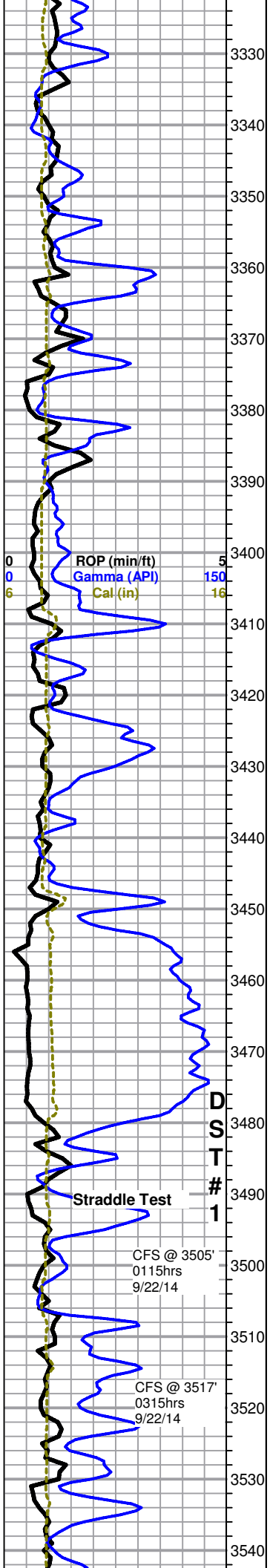
Mostly LS as above, no show or odor

LS, cream to white, micro-xln with some scattered crypto-xln, mostly lithographic, some scattered slightly fossiliferous, poor visible porosity, no show or odor

As above, few LS chips with very scattered vf pinpoint porosity, overall poor visible porosity, no show or odor

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





LS as above, with some scattered white to off-white, poor visible porosity, no show or odor

LS, cream to off-white with some scattered gray, micro-xln, mostly lithographic with poor visible porosity, some scattered soft and chalky in part, no show or odor

LS as above, chalky, no show or odor

LS, cream, micro-xln, oolitic to sub-oolitic with some lithographic, poor visible porosity, no show or odor

LS, cream to off-white, micro-xln, mostly lithographic, oolitic to sub-oolitic appears to be dropping out, slightly chalky, no show or odor

LS, cream to off-white with some light gray, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered slightly fossiliferous, no show or odor

Root Shale 3450 (-650)

Gray and red shale, mostly soft and waxy, some blocky and dense, also with some LS as above, no show or odor

DST #1 (3443-3538) 5-90-60-90

1st Open weak blow built to 8.5", No BB, 2nd Open very strong blow BOB instantly, No BB. IHP: 1656# -- IFP: 10-13# ISIP: 530#
FFP: 11-24# -- FSIP: 388# -- FHP: 1654# BHT: 105
Recovered 45'M

Stotler 3480 (-680)

GAYLEFRY1-2NEDST1.jpg

3505' 30" LS, cream to off-white with some scattered light gray, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered slightly fossiliferous, no fluorescence, no show or odor

3505' 60"

LS, cream to off-white with some gray, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered slightly fossiliferous, no fluorescence, no show or odor

3517' 30" LS, gray to cream, micro-xln, some lithographic, some fossiliferous, hard and dense with poor visible porosity, no fluorescence, no show or odor

3517' 60" Mostly same as above, upon break chips show ppor inter-xln porosity, some scattered soft and chalky in part, no fluorescence, no show or odor

LS, gray with some cream, micro-xln, some mottled, lithographic and dense with poor visible porosity, some scattered slightly fossiliferous, no

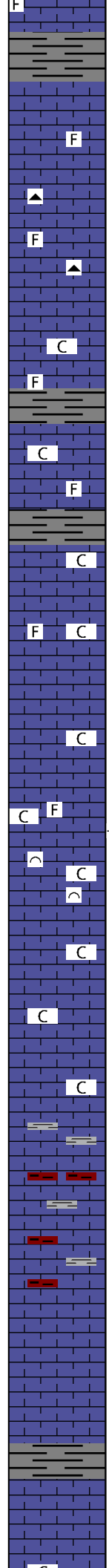
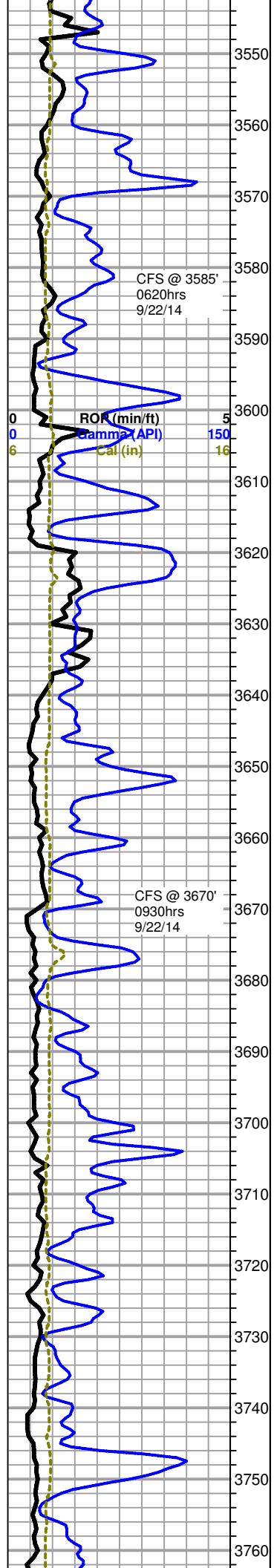
0	Total Gas (units)	50
0	C1 (units)	50
0	C2 (units)	50
0	C3 (units)	50
0	C4 (units)	50

DST #1

Straddle Test

CFS @ 3505'
0115hrs
9/22/14

CFS @ 3517'
0315hrs
9/22/14



show or odor

Tarkio 3553 (-753)

LS, cream with some gray, micro-crypto xln, mostly lithographic and dense with poor visible porosity, some scattered fossiliferous, no show or odor

3585' 30" LS, cream with some scattered gray, micro-crypto xln, mostly lithographic and dense with poor visible porosity, some scattered fossiliferous, also with some scattered soft and chalky in part, trace tan chert, fresh and sharp, no show or odor

3585' 60" Mostly same as above, no fluorescence, no show or odor

LS, cream to light gray, micro-xln, some fossiliferous and dense with poor visible porosity, some lithographic and soft and chalky in part, no show or odor

Mostly same as above, no show or odor

LS, cream to off-white with some scattered gray, micro-xln, mostly lithographic, slight influx of soft and chalky in part, some very scattered slightly fossiliferous, overall poor visible porosity, no show or odor

Bern 3640 (-840)

3670' 30" LS, gray to cream, micro-xln, mostly soft and chalky, some scattered fossiliferous, hard and dense with poor visible porosity, chalky sample, trace brown chert, slight show gas bubbles in tray, very slight fleeting sheen on water when sample first poured into tray, no fluorescence, no oil shows or odor

3670' 60" LS, gray to cream, micro-xln, fossiliferous with large clasts, some gray mottled, mix of hard and dense and soft and chalky, fairly chalky sample, no fluorescence, show or odor

LS, cream with some scattered light gray, micro-xln, modtly lithographic and dense with poor visible porosity, some soft and chalky, slightly chalky sample, no show or odor

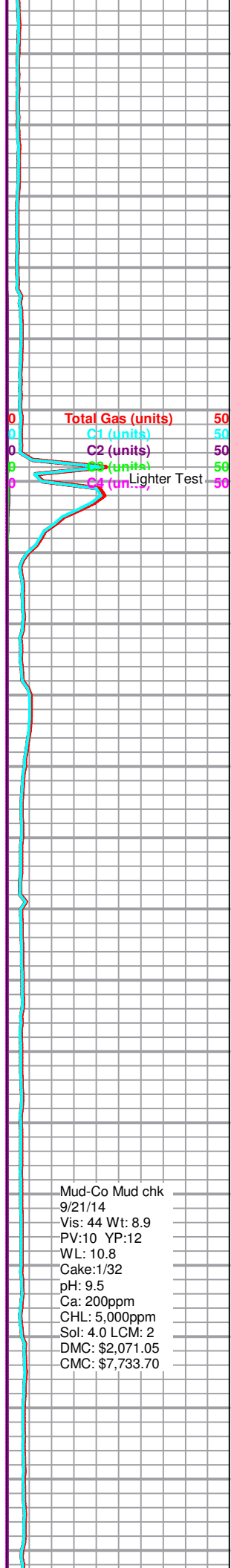
LS as above, slightly less chalky, no show or odor

LS, cream, micro-xln, lithographic and dense with poor visible porosity, no show or odor

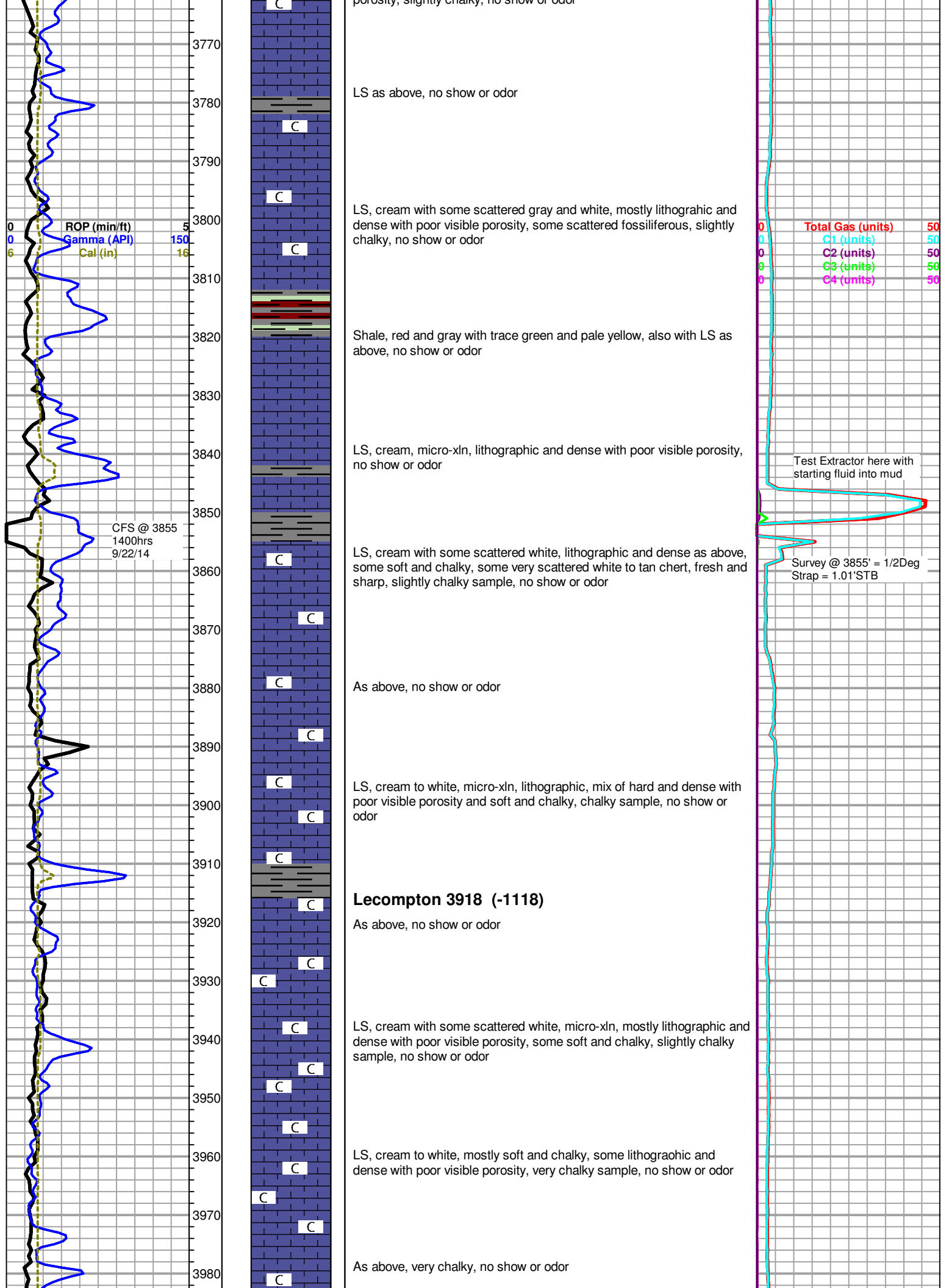
Topeka 3740 (-940)

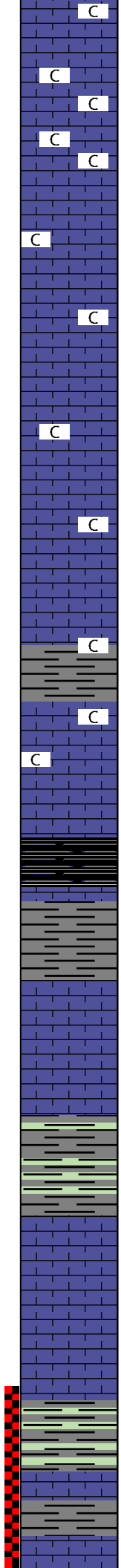
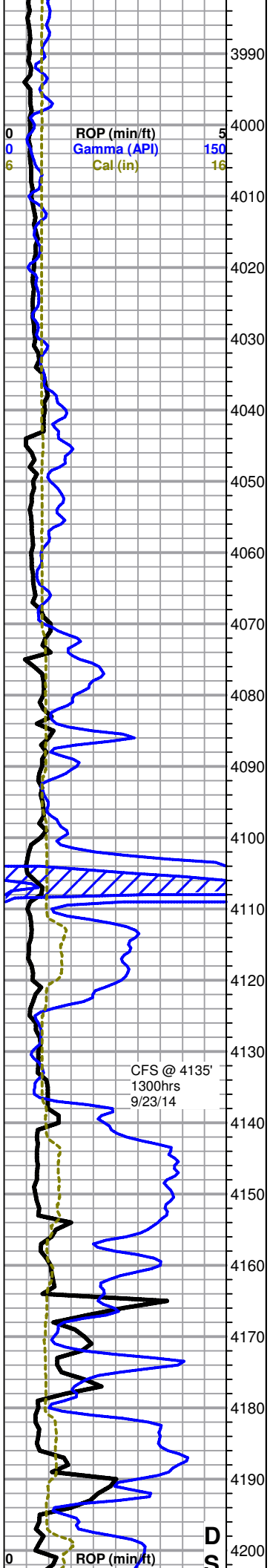
LS as above, no show or odor

LS, cream to white, micro-xln, lithographic and dense with poor visible porosity, slightly chalky, no show or odor



Mud-Co Mud chk
 9/21/14
 Vis: 44 Wt: 8.9
 PV:10 YP:12
 WL: 10.8
 Cake:1/32
 pH: 9.5
 Ca: 200ppm
 CHL: 5,000ppm
 Sol: 4.0 LCM: 2
 DMC: \$2,071.05
 CMC: \$7,733.70





As above, very chalky, no show or odor

LS, cream to gray with some very scattered white, lithographic and dense with some soft and chalky, slightly less chalky, no show or odor

As above, still fairly chalky, no show or odor

Shale, gray to dark gray, blocky and dense

LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, some chalk, slightly chalky sample, no show or odor

Heebner 4100 (-1300)

Shale, black carbonaceous

Toronto 4121 (-1321)

4135' 30" LS, cream to gray, micro-xln, some lithographic, some fossiliferous, poor visible porosity, no show or odor

4135' 60" As above, no show or odor

LS, cream to gray, micro-xln, fossiliferous, some lithographic, mostly dense with poor visible porosity, no show or odor

LS as above, no shows or odor

Shale, mostly gray with some green

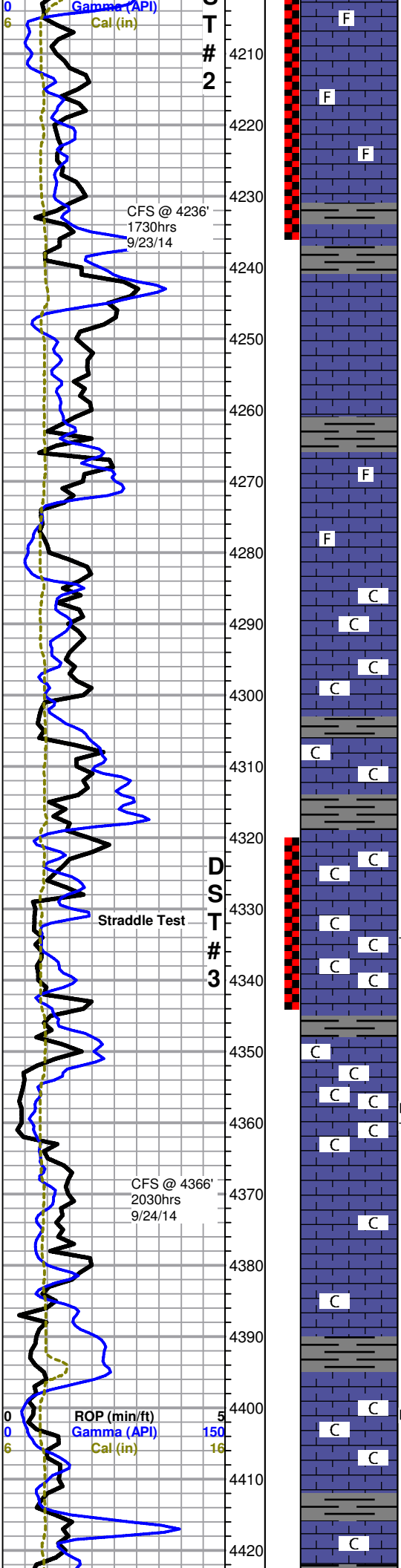
DST #2 (4177-4236) 5-90-60-90
1st Open weak blow built to 7", No BB, 2nd Open Very strong blow BOB Instantly, No BB, IHP: 2059# -- IFP: 11-11# ISIP: 1199# --
FFP: 19-26# -- FSIP: 1199# -- FHP: 2058#
BHT: 113 -- Recovered 1190' GIP, 50'M

Lansing 4202 (-1402)

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
4088'
9/23/14
Vis: 45 Wt: 9.3
PV:14 YP:15
WL: 10.4
Cake:1/32
pH: 11.0
Ca: 20ppm
CHL: 3,100ppm
Sol: 7.0 LCM: 1
DMC: \$2,185.35
CMC: \$9,919.05

0	Total Gas (units)	50
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GAYLEFRY1-2NEDST2.jpg

LS, cream to gray with some white, micro-xln, mostly lithographic, some scattered fossiliferous and some sub-sucrosic, mostly dense with poor visible porosity, some scattered soft and chalky in part, trace white to tan chert, no fluorescence, shows or odor

4236' 30" LS, cream to light gray with some scattered white, mostly micro-xln with some scattered crypto-xln, some fossiliferous, some lithographic, few scattered chips with slight secondary calcite development on edges, mostly dense with poor visible porosity, some soft and chalky in part, with some very scattered tan to light brown chert, no fluorescence, show or odor

4236' 60" Mostly same as above, also with abundant gray shale, no fluor, show, or odor

LS, light gray, micro-crypto xln, lithographic and dense with poor visible porosity, no show or odor

LS, light gray to cream, micro-xln, mostly lithographic and dense with poor visible porosity, few scattered chips with very scattered vf pinpoint porosity on edge only, some scattered fossiliferous, dense with poor visible porosity, no show or odor

LS, cream, micro-xln, lithographic, mostly soft and chalky, some dense with poor visible porosity, few very scattered very small chips with slight edge pinpoint porosity and one to two small vugs, barren, very chalky with heavy chalky wash, no odor

LS, gray to cream, micro-xln, some fossiliferous and dense with poor visible porosity, some lithographic and chalky, few very scattered chips with very scattered vf pinpoint porosity on edge only, chalky, fair fleeting odor in cup, no oil show or fluorescence

DST #3 (4320-4343) 5-90-45-90
1st Open good blow BOB 1.5", Weak Surface BB, 2nd Open good blow BOB 2", No BB, IHP: 2125# -- IFP: 129-308#
ISIP: 1237# -- FFP: 330-1068# -- FSIP: 1225# -- FHP: 2125#
BHT: 117 -- Recovered 320' WCM, 220' SMCW, 1510'WTR

GAYLEFRY1-2NEDST3.jpg

~4330' LS, mostly cream with some scattered gray, micro-xln, mostly soft and chalky, some lithographic and dense with poor visible porosity, slight show free gas bubbles in tray, occasional sheen on bubbles, chalky with heavy chalky wash, fair odor, no fluorescence or oil show

4366' 30" mostly same as above, very chalky, fair show gas bubbles, very scattered dull yellow fluorescence, heavy chalky wash, poor fleeting odor, no oil show

4366' 60" Mostly same as above, with some scattered oolitic to oomoldic with dull to bright yellow fluorescence, very chalky with heavy chalky wash, fair fleeting odor in cup, no oil show

LS, cream with some light gray to gray, mostly lithographic, some soft and chalky, some scattered slightly fossiliferous, trace sub-oomoldic, barren, slightly chalky, no show or odor

LS, cream, micro-crypto xln, mostly lithographic and dense with poor visible porosity, some scattered soft and chalky in part, slightly chalky, no show or odor

LS, cream, micro-crypto xln, mix of lithographic and dense with poor visible porosity and soft and chalky, chalky sample, fair fleeting odor, some very scattered dull yellow fluorescence, no oil show

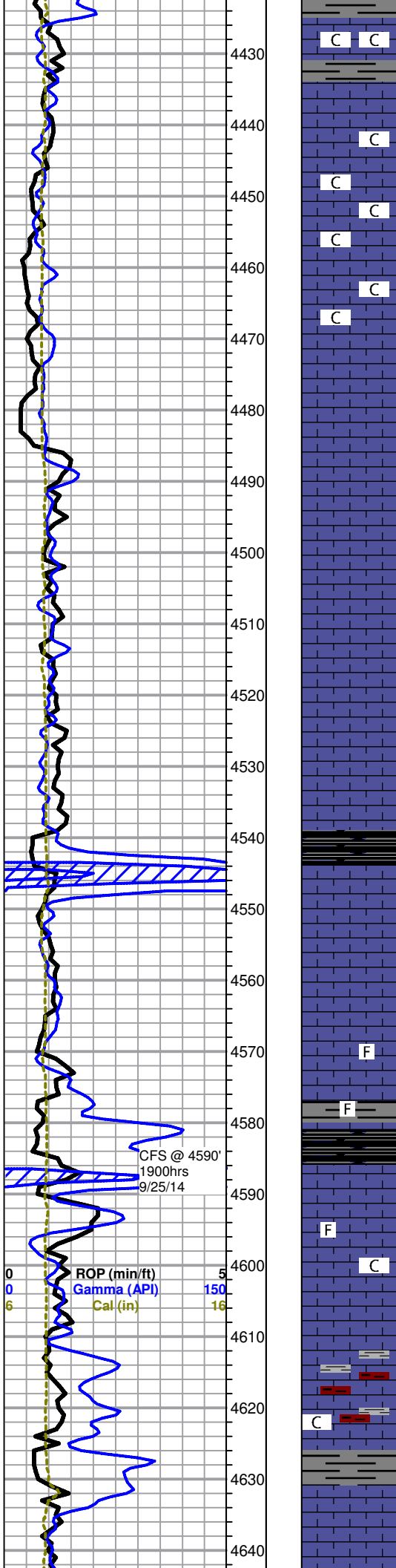
C1 (units) 50
 C2 (units) 50
 C3 (units) 50
 C4 (units) 50

Survey @ 4236' = 1/4Deg

Mud-Co Mud chk
 4236'
 9/24/14
 Vis: 46 Wt: 9.35
 PV:13 YP:14
 WL: 9.6
 Cake:1/32
 pH: 9.6
 Ca: 20ppm
 CHL: 4,200ppm
 Sol: 6.9 LCM: 2
 DMC: \$2,586.75
 CMC: \$12,505.80

Mud-Co Mud chk
 4367'
 9/25/14
 Vis: 46 Wt: 9.2
 PV:14 YP:15
 WL: 8.8
 Cake:1/32
 pH: 11.0
 Ca: 20ppm
 CHL: 2,200ppm
 Sol: 6.3 LCM: 1
 DMC: \$2,020.40
 CMC: \$14,526.20

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



LS as above, trace dull yellow fluorescence, chalky with heavy chalky wash, poor fleeting odor, no oil show

LS, cream. micro-xln, mostly lithographic with poor visible porosity, some soft and chalky, also with some scattered sub-oolitic to sub-oomoldic, few chips oomoldic, dense with poor visible porosity, upon break VSFO (2-3 brown droplets), no visible stain in matrix, scattered dull yellow fluorescence, fair show tiny gas bubbles in tray (not visibly bleeding out of rocks), chalky with heavy chalky wash, fair fleeting odor in cup

LS, cream, micro-xln, sub-oomoldic to oomoldic, mostly dense with poor visible oomold porosity, some very scattered with very scattered inter-oomold porosity but mostly poor visible porosity overall, upon break chips show poor visible inter-xln porosity and no oil show or stain in matrix, no oil cut with lighter fluid, some scattered dull yellow fluorescence, poor odor in cup

LS, cream to light gray with some gray, micro-crypto xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, no show or odor

Stark Shale 4539 (-1739)

Shale, black carbonaceous

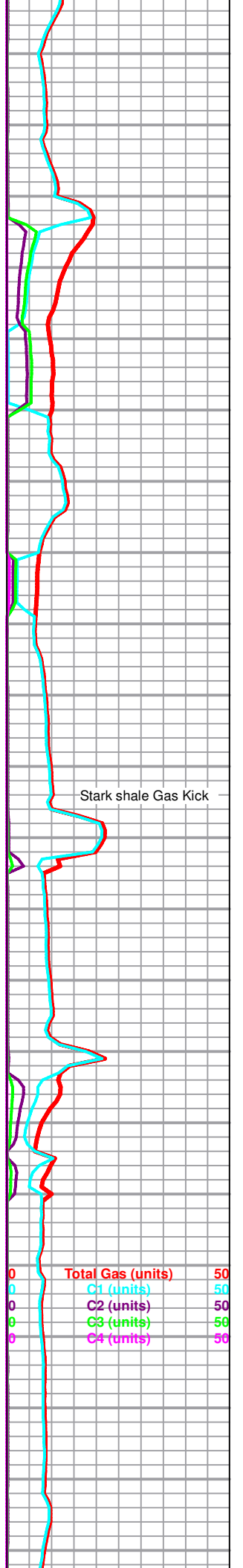
LS, cream, crypto-xln, lithographic and dense with poor visible porosity, no show or odor

4590' 30" LS, cream to light gray, micro-crypto xln, some sub-oomoldic to oomoldic with poor to fair visible oomold porosity, dense and barren, some scattered lithographic as well as some scattered fossiliferous, dense with poor visible porosity, no show or odor

4590' 60" mostly same as above, with some scattered dull yellow fluorescence on oomoldic chips, no cut, no show or odor

LS, cream to light gray, micro-crypto xln, lithographic, some dense, some soft and chalky in part, poor visible porosity, slightly chalky sample, no show or odor

LS, cream to light gray with some gray, micro-xln, lithographic and dense with poor visible porosity, some scattered soft and chalky in part, no show or odor

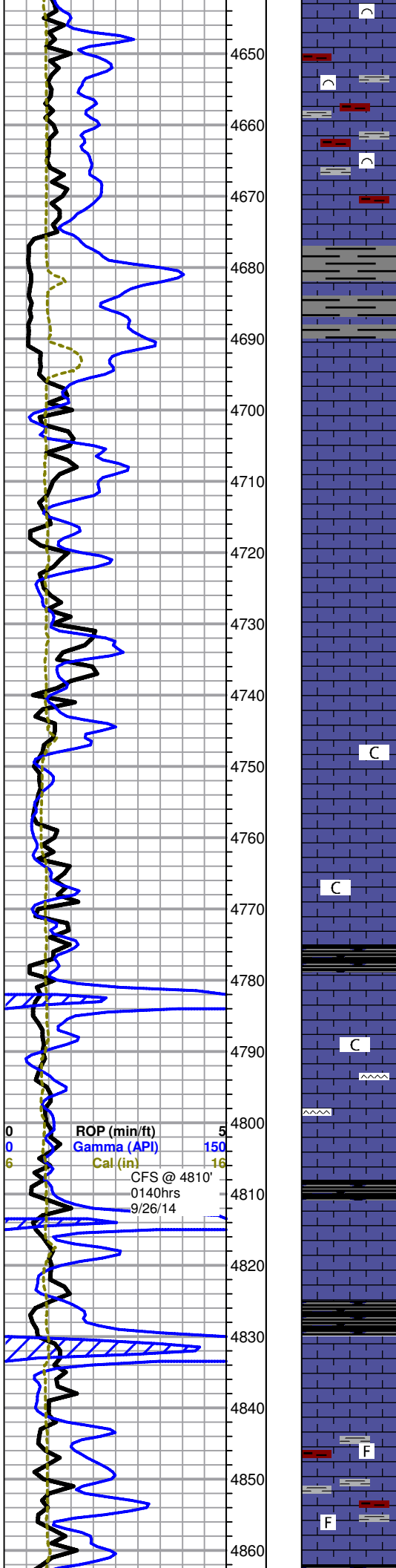


Stark shale Gas Kick

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

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

CFS @ 4590'
 1900hrs
 9/25/14



LS, mostly same as above, also with some gray, some mottled, some slightly fossiliferous, some with large clasts, dense with poor visible porosity, no show or odor

B/KC 4676 (-1876)

Shale, gray, some soft and waxy, some blocky and dense

Marmaton 4692 (-1892)

LS, cream, micro-crypto xln, lithographic with poor visible porosity, no show or odor

LS as above, also with some gray, micro-xln, with scattered large clasts, no show or odor

LS, cream to gray, micro-xln, some mottled, some with large clasts, dense with poor visible porosity, some scattered lithographic with poor visible porosity, no show or odor

LS, cream, micro-crypto xln, lithographic, some hard and dense, some soft and chalky, poor visible porosity, slightly chalky sample, no show or odor

LS as above, no show or odor

Pawnee 4782 (-1982)

4810' 30" LS, cream, micro-crypto xln, mostly lithographic and dense with poor visible porosity, some scattered soft and chalky in part, also with some very scattered brown to opaque chert, no show or odor

4810' 60" mostly same as above, fairly chalky, with slight show gas bubbles in tray, some very scattered dull yellow fluorescence, no visible oil show, poor fleeting odor

Cherokee Shale 4825 (-2025)

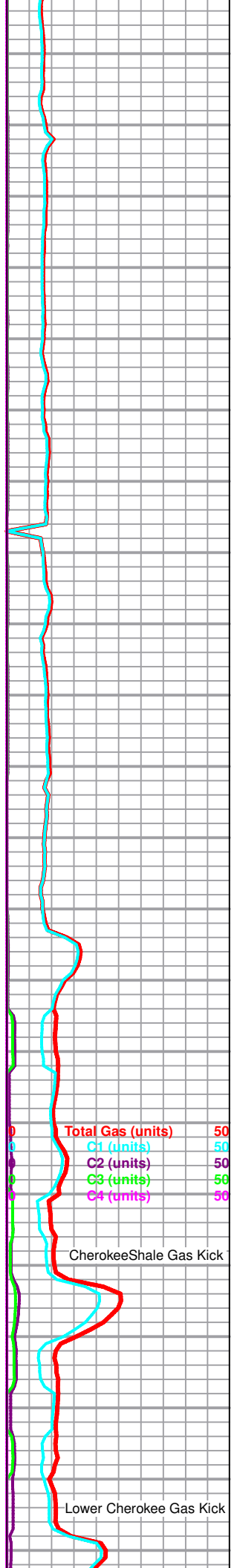
Shale, black carbonaceous

LS, cream, micro-xln, lithographic, some dense, some soft and chalky in part, poor visible porosity, no show or odor

LS as above, also with some scattered gray, micro-xln, slightly fossiliferous, dense with poor visible porosity, no show or odor

Second Cherokee Shale 4861 (-2061)

Shale, black carbonaceous

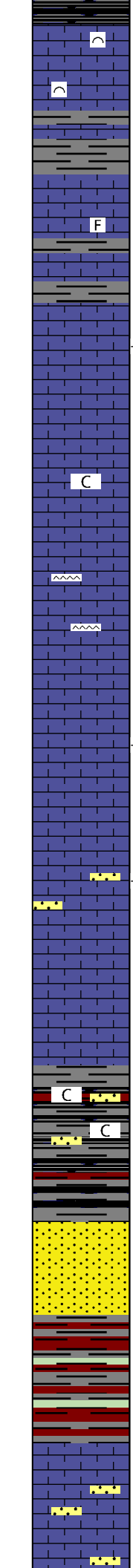
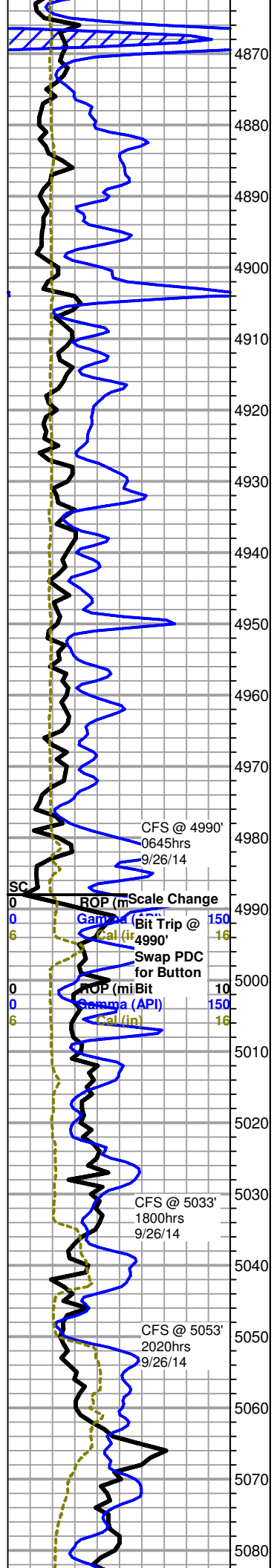


Total Gas (units) 50
 C1 (units) 50
 C2 (units) 50
 C3 (units) 50
 C4 (units) 50

CherokeeShale Gas Kick

Lower Cherokee Gas Kick

ROP (min/ft) 5
 Gamma (API) 150
 Cal (in) 16
 CFS @ 4810'
 0140hrs
 9/26/14



Shale, black carbonaceous

LS, cream to gray, micro-xln, some lithographic, some fossiliferous, dense with poor visible porosity, no show or odor

LS, gray to cream, micro-xln, lithographic and dense with poor visible porosity, trace slightly fossiliferous, no show or odor

LS as above, few chips gray, lithographic and dense with poor visible porosity, upon break chips have slight show gas bubbles, poor visible inter-xln porosity, no fluorescence, poor fleeting odor in cup

LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered soft and chalky in part, overall poor visible porosity, no show or odor

LS, cream to light gray, micro-xln, lithographic with poor visible porosity, some very scattered white to opaque chert, no show or odor

4990' 30" LS, cream, micro-xln, lithographic and dense with poor visible porosity, few very scattered chips give up one to two gas bubbles upon break, no fluorescence or oil show, poor fleeting odor

4990' 60" LS as above, few chips release one to two gas bubbles upon break, also with some very scattered sand clusters, clear to white, fairly well sorted, sub rounded, friable, barren, no fluorescence or oil show, poor odor in cup

Begin 10' Wet and Dry Samples

LS, gray to brown, micro-crypto xln, some fossiliferous, dense with poor visible porosity, also with shale, gray to dark gray and black with trace red, no show or odor

Morrow Shale 5012 (-2212)

Shale, mostly gray to dark gray with some black, also with trace SS, clear to white, fairly well sorted, sub-roundend to sub-angular, few clusters with shale inclusions, friable, barren, chalky, no show or odor

5033' 30" Mostly same as above, also carrying abundant LS, very chalky, no show or odor

5033' 60" As above, no show or odor

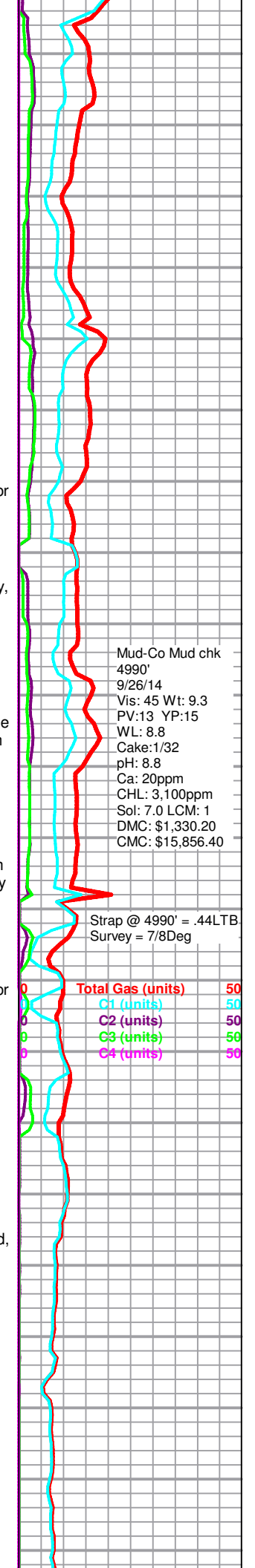
5053' 30" SS, white to gray-green, vf-grained, well sorted, sub-rounded, some fairly well cemented, some friable, barren, also with abundant quartz ss grains in bottom of tray, sub-rounded as above, no fluorescence or odor

Chester 5047 (-2247)

5053' 60" SS as above, also with some very scattered clear, fine grained, fairly well sorted, sub-rounded to sub-angular, very friable, barren, also with abundant red and gray shale, with trace green, red wash, no fluorescence or odor

Mississippian St. Gen 5068 (-2278)

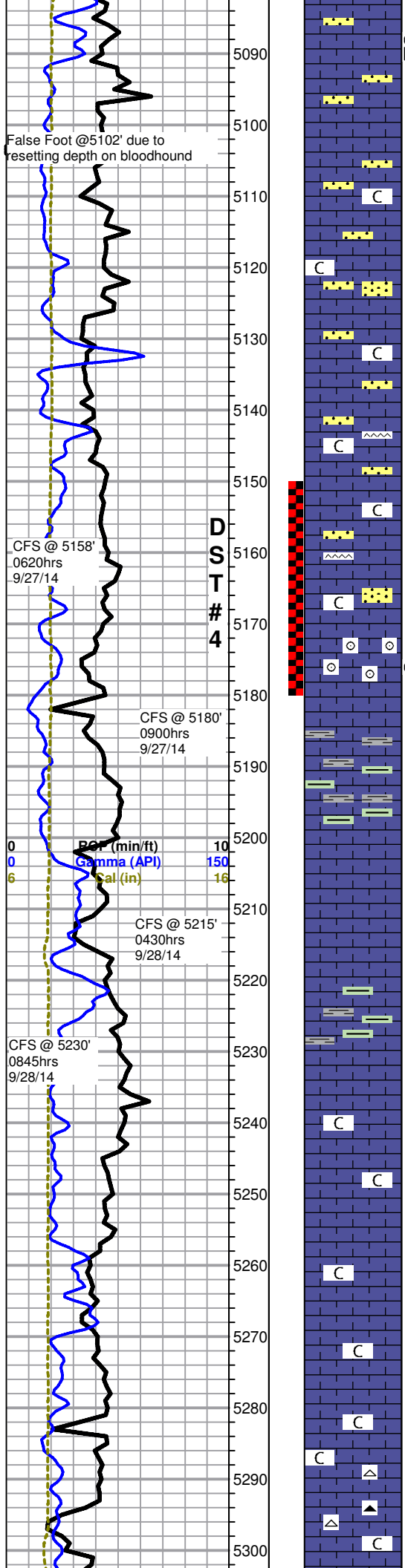
LS, light gray to cream, micro-xln, very sandy, some oolitic with trace sub-oomoldic, very dense with poor visible porosity, no show or odor



Mud-Co Mud chk
 4990'
 9/26/14
 Vis: 45 Wt: 9.3
 PV:13 YP:15
 WL: 8.8
 Cake:1/32
 pH: 8.8
 Ca: 20ppm
 CHL: 3,100ppm
 Sol: 7.0 LCM: 1
 DMC: \$1,330.20
 CMC: \$15,856.40

Strap @ 4990' = .44LTB
Survey = 7/8Deg

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



Mostly same as above, some white sandy LS with scattered to mostly saturated black tarry to dead flaky black stain, mostly very dense with poor visible porosity, sandy, upon break NSFO, no fluorescence or odor

Mostly same as above, shows appear to be dropping out, no fluorescence or odor

As above, slightly chalky, no fluorescence or odor


LS, light gray to white, very sandy, some oolitic, some with scattered oolites, poor visible porosity, no show, fluorescence, or odor

As above, sandy, slightly chalky, no show or odor

~5140' As above, with some scattered clear to orange chert, no show or odor

5158' 30" LS, light gray to white, sandy, slightly chalky, dense, no show or odor

5158' 60" As above, slightly chalky, trace orange chert, no fluorescence, show, or odor

 GAYLEFRY1-2NEDST4.jpg

DST #4 (5150-5180) 5-90-45-90
1st Open very weak surface blow, No BB, 2nd Open no blow, flushed tool no help, IHP: 2484# -- IFP: 7-6#
ISIP: 1208# -- FFP: 7-8# -- FSIP: 653# -- FHP: 2484#
BHT: 121 -- Recovered 5'M

St. Louis Upper "B" Porosity 5174 (-2374)

5180' 30" As above, with some oolitic with poor visible porosity, mostly barren, few very scattered very small oolitic clusters, cream, medium to large oolites, with fair visible inter-oolite porosity with very scattered brown to black stain in porosity, stain increases to mostly saturated brown when left under lamp for several minutes, very friable, upon break clusters have slight to fair show free oil, very dull yellow to no fluorescence, NSFO in tray, with abundant oolites in bottom of tray, fairly chalky, occasional sheen on water, good odor in cup
 Dry samples show mostly saturated light golden brown to brown stain

5180' 60" Same as above, good odor, slightly chalky

~5190' LS, cream to white, micro-crypto xln, mostly lithographic, some scattered sandy, some very scattered oolitic to sub-oolitic, poor visible porosity, slightly chalky, no show or odor

~5200' Mostly same as above, with abundant red and green shale, no show or odor

5215' 30" LS, cream, micro-xln, sub-oolitic to oolitic, some dense with poor visible porosity, some fairly friable, few very small clusters found in bottom of tray, friable, barren, some scattered small to medium sized free oolites in bottom of tray, no show, fluorescence, or odor

5215' 60" same as above, no show or odor

5230' 30" LS, cream, micro-xln, sub-oolitic to oolitic, small to medium sized oolites, fairly friable, poor visible porosity, barren, also with abundant gray and green shale, no show, fluorescence, or odor

5230' 60" As above, micro-large oolitic, fairly friable, poor visible porosity, barren, no fluorescence or odor

LS, cream to light gray, micro-crypto xln, sandy, some hard and dense with poor visible porosity, some sandy and friable, chalky, no fluorescence, show, or odor

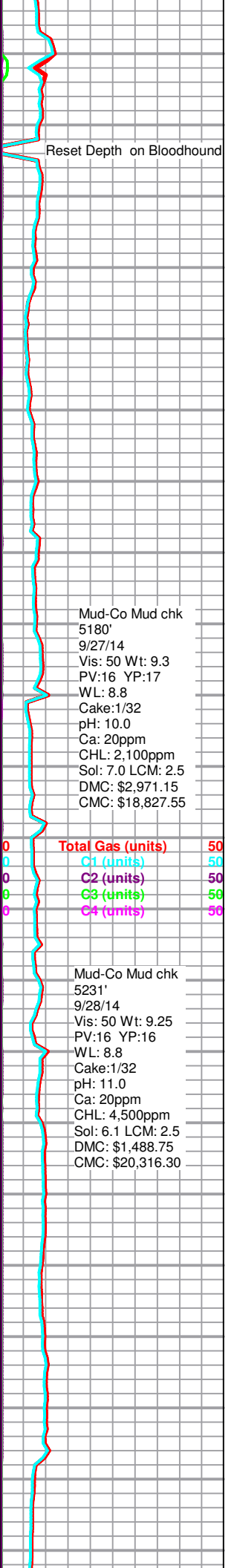
As above, no show, fluorescence, or odor

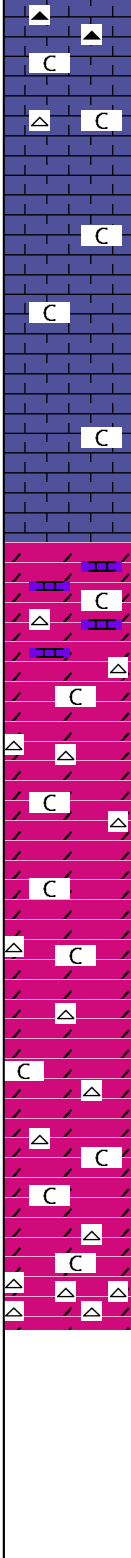
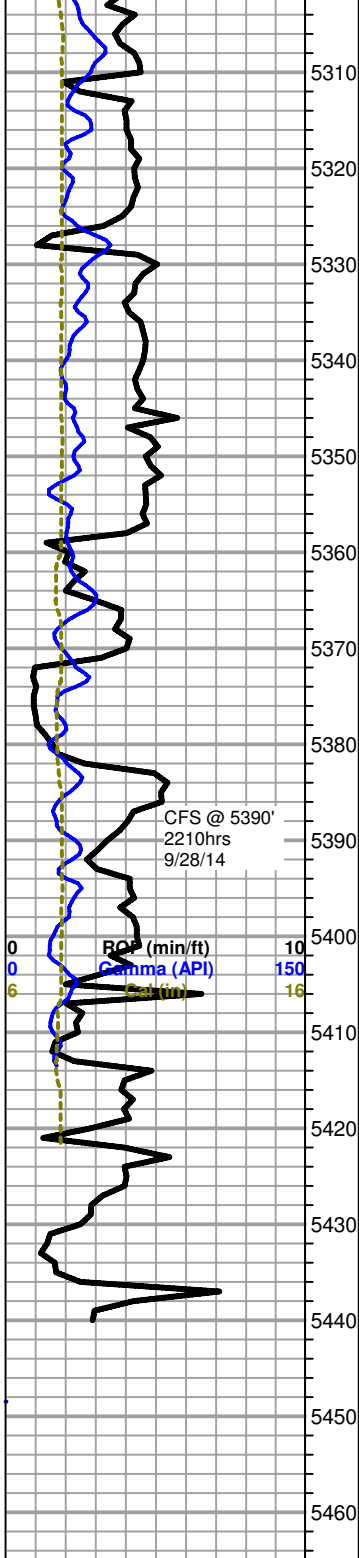
Mostly same as above, with some very scattered orange to tan chert, no show, fluorescence, or odor

LS, cream to light gray, micro-crypto xln, less sandy, lithographic and dense with poor visible porosity, chalky, no show, fluorescence, or odor

As above, with some very scattered micro-oolitic, some fairly friable, some dense, poor visible porosity, chalky, no show, fluorescence, or odor

LS, light gray to cream, micro-crypto xln, some micro-oolitic and dense, some sandy and friable, chalky, no show, fluorescence, or odor





Mostly same as above, also with some very scattered tan to brown and white chert, some fossiliferous, chalky, no show, fluorescence, or odor

As above, no show, fluorescence, or odor

LS, cream, micro-xln, some scattered sub-oolitic to oolitic, dense with poor visible porosity, slightly chalky, no show or odor

LS as above, with some very scattered tan to opaque chert, no show or odor

LS, cream to light gray, micro-xln, some very scattered sub-oolitic to oolitic, dense with poor visible porosity, no show or odor

Mississippian Salem 5352 (-2552)

LS, cream, micro-xln, dense with poor visible porosity, with dolomite, cream, vf-xln, sucrosic, dense with poor visible porosity, also with some scattered white chert, slightly chalky, no show or odor

5390' 30" Dolomite as above, few very scattered chips with one to two very small vugs, overall dense with poor visible porosity, LS dropping out, also with scattered white chert as above, no show or odor

5390' 60" Dolomite and chert as above, no show or odor

Dolomite, cream to brown, vf-xln, sucrosic and dense with poor visible porosity, some sub-oolitic to oolitic, few very scattered small chips with one to two small vugs, barren, fairly chalky, no fluorescence or odor

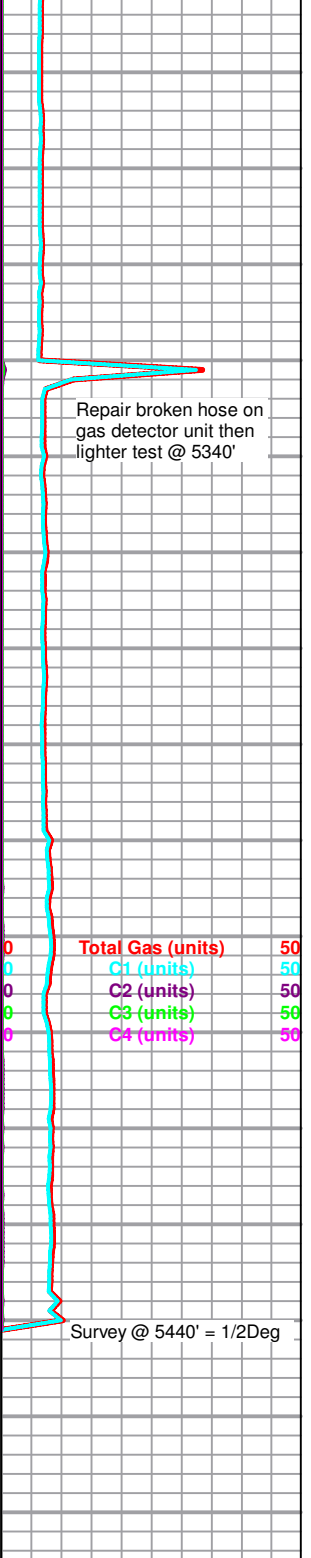
Dolomite as above, no show or odor

As above, with less oolitic, also with some scattered white to opaque chert, fairly chalky, no show or odor

Dolomite, cream to brown, vf-xln, dense with poor visible porosity, oolitic mostly gone, influx of tan to white and opaque chert, no show or odor

Mostly white to opaque and some scattered tan chert, with some dolomite as above, no show or odor

Rotary TD 5440' @ 0230hrs 9/29/14
Pioneer Energy Services Logging TD @ 5443'
Complete Logging Operations @ 1500hrs 9/29/14
Geologist Jeremy Schwartz off location @ 1815hrs 9/29/14





GAYLEFRY1-2NEDST1.jpg

DIAMOND TESTING

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

TIME ON: 20:11 9-22-14

TIME OFF: 04:55 9-23-14

DRILL-STEM TEST TICKET

FILE: GAYLEFRY1-2NEDST1

Company FALCON EXPLORATION, INC. Lease & Well No. GAYLE FRY #1-2 (NE)

Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.

Elevation 2800 KB Formation STOTLER Effective Pay Ft. Ticket No. T395

Date 9-22-14 Sec. 2 Twp. 28 S Range 30 W County GRAY State KANSAS

Test Approved By JEREMY SCHWARTZ Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3443 ft. to 3538 ft. Total Depth 3855 ft.

Packer Depth 3438 ft. Size 6 3/4 in. Packer depth 3538 ft. Size 6 3/4 in.

Packer Depth 3443 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3424 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 3535 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Below Straddle Recorder Depth 3852 ft. Recorder Number 11030 Cap. 5,025 P.S.I.

Mud Type CHEMICAL Viscosity 44 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 8.9 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 5,000 P.P.M. Drill Pipe Length 3410 ft. I.D. 3 1/2 in.

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

Did Well Flow? NO Reversed Out NO Anchor Length 33 ft. Size 4 1/2-FH in.

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

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING TO 8 1/2 INCHES. (NO BB)

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

Recovered 45 ft. of MUD

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of Price Job

Recovered ft. of Other Charges

Remarks: WE BLEED LINE OFF 10 MIN. INTO FINAL FLOW PERIOD AND IT TOOK 6 MIN. Insurance

TO GET BACK TO BOTTOM.

TOOL SAMPLE: TRACE OIL, 100% MUD Total

Time Set Packer(s) 10:37 PM A.M. P.M. Time Started Off Bottom 2:42 AM A.M. P.M. Maximum Temperature 105 deg.

Initial Hydrostatic Pressure (A) 1656 P.S.I.

Initial Flow Period Minutes 5 (B) 10 P.S.I. to (C) 13 P.S.I.

Initial Closed In Period Minutes 90 (D) 530 P.S.I.

Final Flow Period Minutes 60 (E) 11 P.S.I. to (F) 24 P.S.I.

Final Closed In Period Minutes 90 (G) 388 P.S.I.

Final Hydrostatic Pressure (H) 1654 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.



GAYLEFRY1-2NEDST2.jpg

DIAMOND TESTING

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

TIME ON: 00:53

TIME OFF: 09:12

DRILL-STEM TEST TICKET

FILE: GAYLEFRY1-2NEDST2

Company FALCON EXPLORATION, INC. Lease & Well No. GAYLE FRY #1-2 (NE)

Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.

Elevation 2800 KB Formation LANSING "A-B" Effective Pay Ft. Ticket No. T396

Date 9-24-14 Sec. 2 Twp. 28 S Range 30 W County GRAY State KANSAS

Test Approved By JEREMY SCHWARTZ Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4177 ft. to 4236 ft. Total Depth 4236 ft.

Packer Depth 4172 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Packer Depth 4177 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4158 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 4233 ft. Recorder Number 11030 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 0 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 3,100 P.P.M. Drill Pipe Length 4144 ft. I.D. 3 1/2 in

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

Did Well Flow? NO Reversed Out NO Anchor Length 28 ft. Size 4 1/2-FH in

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

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING TO 7 INCHES. (NO BB)

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

Recovered 1190 ft. of GAS IN PIPE

Recovered 50 ft. of MUD

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

TOOL SAMPLE: SPOTTY OIL, 100% MUD

Time Set Packer(s) 3:32 AM A.M. P.M. Time Started Off Bottom 7:37 AM A.M. P.M. Maximum Temperature 113 deg.

Initial Hydrostatic Pressure..... (A) 2059 P.S.I.

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

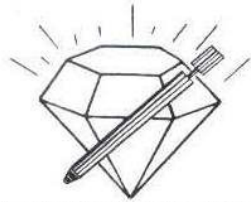
Initial Closed In Period..... Minutes 90 (D) 1199 P.S.I.

Final Flow Period..... Minutes 60 (E) 19 P.S.I. to (F) 26 P.S.I.

Final Closed In Period..... Minutes 90 (G) 1177 P.S.I.

Final Hydrostatic Pressure..... (H) 2058 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.



GAYLEFRY1-2NEDST3.jpg

DIAMOND TESTING

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

TIME ON: 01:32

TIME OFF: 11:06

DRILL-STEM TEST TICKET

FILE: GAYLEFRY1-2NEDST3

Company FALCON EXPLORATION, INC. Lease & Well No. GAYLE FRY #1-2 (NE)
Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.
Elevation 2800 KB Formation LANSING "G" Effective Pay _____ Ft. Ticket No. T397
Date 9-25-14 Sec. 2 Twp. _____ 28 S Range 30 W County GRAY State KANSAS
Test Approved By JEREMY SCHWARTZ Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4320 ft. to 4343 ft. Total Depth 4366 ft.
Packer Depth 4315 ft. Size 6 3/4 in. Packer depth 4343 ft. Size 6 3/4 in.
Packer Depth 4320 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4301 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4340 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth 4363 ft. Recorder Number 11030 Cap. 5,025 P.S.I.

Mud Type CHEMICAL Viscosity 46 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.35 Water Loss 9.5 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,200 P.P.M. Drill Pipe Length 4287 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 23 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 3 INCH BLOW, BUILDING, REACHING BOB 1 1/2 MIN. (WS BB)

2nd Open: GOOD 3 INCH BLOW, BUILDING, REACHING BOB 2 MIN. (NO BB)

Recovered 320 ft. of WCM, 36% WATER, 64% MUD
Recovered 1510 ft. of WATER, 100% WATER
Recovered 220 ft. of SMCW, 92% WATER, 8% MUD
Recovered 2050 ft. of TOTAL FLUID

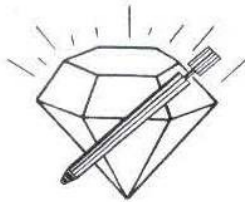
Recovered _____ ft. of _____ CHLORIDES: 93,000 ppm Price Job
Recovered _____ ft. of _____ PH: 7.0 Other Charges
Remarks: _____ RW: .14 @ 66 deg. Insurance

TOOL SAMPLE: 93% WATER, 7% MUD Total

Time Set Packer(s) 4:17 AM A.M. P.M. Time Started Off Bottom 8:07 AM A.M. P.M. Maximum Temperature 117 deg.

Initial Hydrostatic Pressure..... (A) 2125 P.S.I.
Initial Flow Period..... Minutes 5 (B) 129 P.S.I. to (C) 308 P.S.I.
Initial Closed In Period..... Minutes 90 (D) 1237 P.S.I.
Final Flow Period..... Minutes 45 (E) 330 P.S.I. to (F) 1068 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1225 P.S.I.
Final Hydrostatic Pressure..... (H) 2125 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.



GAYLEFRY1-2NEDST4.jpg

DIAMOND TESTING

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

TIME ON: 14:43

TIME OFF: 22:55

DRILL-STEM TEST TICKET
FILE: GAYLEFRY1-2NEDST4

Company FALCON EXPLORATION, INC. Lease & Well No. GAYLE FRY #1-2 (NE)

Contractor VAL ENERGY, INC. RIG #2 Charge to FALCON EXPLORATION, INC.

Elevation 2800 KB Formation ST. LOUIS UPPER "B" Effective Pay Ft. Ticket No. T398

Date 9-27-14 Sec. 2 Twp. 28 S Range 30 W County GRAY State KANSAS

Test Approved By JEREMY SCHWARTZ Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 5150 ft. to 5180 ft. Total Depth 5180 ft.

Packer Depth 5145 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Packer Depth 5150 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 5131 ft. Recorder Number 8457 Cap. 10,000 P.S.I.

Bottom Recorder Depth (Outside) 5177 ft. Recorder Number 11030 Cap. 5,025 P.S.I.

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

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 2,100 P.P.M. Drill Pipe Length 5117 ft. I.D. 3 1/2 in.

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

Did Well Flow? NO Reversed Out NO Anchor Length 30 ft. Size 4 1/2-FH in.

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

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

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

Recovered 5 ft. of MUD

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

TOOL SAMPLE: 100% MUD

Time Set Packer(s) 4:53 PM A.M. P.M. Time Started Off Bottom 8:43 PM A.M. P.M. Maximum Temperature 121 deg.

Initial Hydrostatic Pressure..... (A) 3484 P.S.I.

Initial Flow Period..... Minutes 5 (B) 7 P.S.I. to (C) 6 P.S.I.

Initial Closed In Period..... Minutes 90 (D) 1208 P.S.I.

Final Flow Period..... Minutes 45 (E) 7 P.S.I. to (F) 8 P.S.I.

Final Closed In Period..... Minutes 90 (G) 653 P.S.I.

Final Hydrostatic Pressure..... (H) 2484 P.S.I.

Table with 2 columns: Description (Price Job, Other Charges, Insurance, Total) and Amount.

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.