Scale 1:240 Imperial

Well Name:	Renick #1		
Surface Location:	1650' FNL and 330' FEL		
Bottom Location:			
API:	15-069-20446-0000		
License Number:	34320		
Spud Date:	11/14/2013	Time:	7:30 PM
Region:	Sec. 29 - T25S - R29W, Gray County		
Drilling Completed:	11/26/2013	Time:	2:50 PM
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation:	2682.00ft		
K.B. Elevation:	2694.00ft		
Logged Interval:	3500.00ft	To:	5870.00ft
Total Depth:	5870.00ft		
Formation:	Mississippian - St. Louis		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Lasso Energy LLC		
Address:	P.O. Box 465 1125 S. Main St. Chase, KS 67524		
Contact Geologist:	Bruce Kelso		
Contact Phone Nbr:	918.633.9655		
Well Name:	Renick #1		
Location:	1650' FNL and 330' FEL	API:	15-069-20446-0000
Pool:		Field:	Ingalls
State:	Kansas	Country:	USA

LOGGED BY

Company:	Valhalla Exploration, LLC		
Address:	8100 E. 22nd St. North Building 1800-2 Wichita, KS 67226		
Phone Nbr:	316.655.3550		
Logged By:	Geologist	Name:	Derek W. Patterson

REMARKS

After review of the geologic log and sample descriptions, as well as the open hole electric logs for the Renick #1, it was decided upon by operator to run 5 1/2" production casing for further evaluation of said well.

Note: the RTD was 5870' and the LTD 5866'. The drill time, lithology, and gas curves have been shifted anywhere from 3'-5' shallow/higher to correspond with the electric log curves. DST #1 interval has been shifted 4' shallow/higher. All connection and circulation points have also been moved to match the overall shift.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

GENERAL INFORMATION

Service Companies

Drilling Contractor:	Ninnescah Drilling - Rig #101	Drilling Fluid:	Mud-Co/Service Mud Inc.
Tool Pusher:	Rick Barringer	Engineers:	Terry Ison
Daylight Driller:	Jason Barringer		Justin Whiting

Evening Driller: Juan Navarro
Morning Driller: Ronald Guerrero
Relief: Oscar Orona

Gas Detector: Bluestem Environmental
Engineer: Sidney Edelbrock
Unit: 0756
Operational By: 1840'

Logging Company: Tucker Energy Services
Engineer: J. Adams
Logs Ran: DI, CDNL, Micro

Testing Company: Superior Testers
Tester: Shane Konzem

Deviation Survey	
Depth	Survey
1630'	1 1/2°
2686'	1/4°
4852'	3/4°
RTD - 5870'	1/2°

Pipe Strap	
Depth	Pipe Strap
4852'	6.47' Long to Board (windy)

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	Varel	Mill Tooth	1386925	0'	1630'	1630'	20
2	13 1/4"	Varel	Mill Tooth	1386926	1630'	1672'	42'	1.25
3	7 7/8"	Varel	HE21	1384993	1672'	4852'	3180'	96.5
4	7 7/8"	Varel	HE29	1382860	4852'	5870'	1018'	63.25

Surface Casing	
11.17.2013	Ran 39 joints of new 23#/ft 8 5/8" casing, tallying 1655', set @ 1670' KB. Cemented with 455 sacks A Common, 150 sacks Premium Plus. Cement did circulate. Plug down @ 1815 hrs 11.17.13. By Basic Energy Services.

Production Casing	
11.27.2013 11.28.2013	Ran 154 joints of used 17#/ft 5 1/2" production casing, tallying 5796.19', set @ 5796' KB. Cemented with 345 sacks AA2 Class H. Cement did circulate. Plug down @ 1300 hrs 11.28.13. By Basic Energy Services.

DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
11.20.2013	4025'	Drilling and connections Topeka. Geologist Derek W. Patterson on location 2220 hrs 11.19.13. Reset Bloodhound, rezero system, test system. Drilling and connections Topeka, Heebner, and into Toronto. Drilling and connections Toronto. Made 825' over past 24 hrs of operations. WOB: 40k RPM: 75 PP: 900 SPM: 60 DMC: $0.00 CMC: $5,580.20
11.21.2013	4550'	CFS @ 4028' (Tor). Resume drilling and connections Toronto and into Lansing-KC. Drilling and connections Lansing-KC. Rezero system, test system. Drilling and connections Lansing-KC, Base Kansas City, and into Marmaton. Made 525' over past 24 hrs of operations. WOB: 40k RPM: 75 PP: 1200 SPM: 60 DMC: $4,979.65 CMC: $10,559.85
11.22.2013	4852'	Drilling and connections Marmaton, Pawnee, Fort Scott, and into Cherokee. Stop @ 4760' for short trip 1950 hrs 11.21.13. Conduct 20 stand short trip, CTCH back on bottom. Resume drilling following short trip 2330 hrs 11.21.13. Drilling and connections Cherokee, Ste. Genevieve (Miss), and into St. Louis (Miss). CFS @ 4852' (St. Louis 'B'). Made 302' over past 24 hrs of operations. WOB: 40k RPM: 75 PP: 1200 SPM: 60 DMC: $2,325.10 CMC: $12,884.95
11.23.2013	4852'	CFS @ 4852' (St. Louis 'B'). Shows and structure warrant test. CTCH, drop survey, strap out for DST #1 0730 hrs 11.22.13. Rig up tester, make up tool. Bridge encountered @ 1775', impassable with tool. Pull out of hole with tool. TIH with bit to bottom, CTCH. TOH with bit for DST #1 (re-run). Bridge encountered again. TIH with tool. TIH with bit to bridge. Wash through bridge, circulate on zone before TOH with bit. TIH with tool. Made 0' over past 24 hrs of operations. WOB: n/a RPM: n/a PP: n/a SPM: n/a DMC: $496.30 CMC: $13,381.25
11.24.2013	5063'	TIH with tool all the way to bottom. Conduct DST #1, test successful. TIH with new bit, CTCH. Resume drilling following DST #1 1700 hrs 11.23.13. Drilling and connections St. Louis and into Spergen. Drilling and connections Spergen. Made 211' over past 24 hrs of operations. WOB: 40k RPM: 70-75 PP: 1000 SPM: 60 DMC: $0.00 CMC: $13,381.25

DMC: $0.00 CMC: $13,381.25

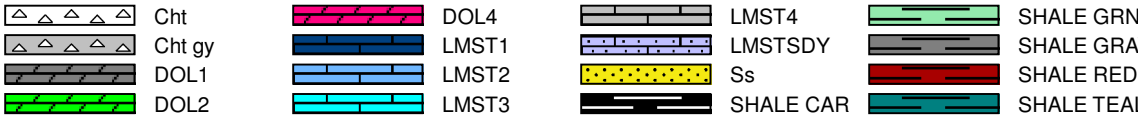
11.25.2013	5449'	Drilling and connections Spergen. Superior Tester released and tool off location. Drilling and connections Spergen and into Warsaw. CFS @ 5377' (Warsaw). Resume drilling and connections Warsaw and into Osage. Made 386' over past 24 hrs of operations. WOB: 40k RPM: 70-75 PP: 1000 SPM: 60 DMC: $1,330.35 CMC: $14,711.60
11.26.2013	5739'	Drilling and connections Osage, Kinderhook, and into Viola. Drilling and connections Viola. Made 290' over past 24 hrs of operations. WOB: 40k RPM: 70-75 PP: 1000 SPM: 60 DMC: $1,115.15 CMC: $15,826.75
11.27.2013	RTD- 5870' LTD - 5866'	Drilling and connections Viola, Simpson, and into Arbuckle. Drilling and connections Arbuckle ahead to RTD of 5870'. RTD reached 1450 hrs 11.26.13. CTCH, conduct 20 stand short trip, CTCH back on bottom. Drop survey, TOH for open hole logging operations 1845 hrs 11.26.13. Rig up Tucker Energy Services. Conduct open hole logging operations. Orders received to run 5 1/2" production casing for further evaluation of the Renick #1. Geologist Derek W. Patterson off location 0540 hrs 11.27.13. Made 131' over past 24 hrs of operations. WOB: 40k RPM: 70-75 PP: 1000 SPM: 60 DMC: $1,378.85 CMC: $17,205.60 Total Mud Cost: $17,292.45

WELL COMPARISON SHEET

	Drilling Well				Comparison Well				Comparison Well				Comparison Well			
	Lasso Energy LLC - Renick #1 Sec. 29 - T25S - R29W NE SE NE 2694 KB				Slawson - Renick 'X' #1 Sec. 29 - T25S - R29W NE NE SE				Gear Pet - Kliesen-St. Unit 'B' #1 Sec. 28 - T25S - R29W SW SW NW				Slawson - Renick-Strawn-St. Unit 'A' #1 Sec. 29 - T25S - R29W SE NE NE			
					Oil - St. Louis		Structural Relationship		Oil - St. Louis		Structural Relationship		Oil - St. Louis		Structural Relationship	
					2685 KB				2686 KB				2685 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3993	-1299	3989	-1295	3997	-1312	13	17	3993	-1307	8	12	3984	-1299	0	4
Toronto	4008	-1314	4004	-1310	4011	-1326	12	16	4008	-1322	8	12	3996	-1311	-3	1
Lansing-Kansas City	4079	-1385	4074	-1380	4080	-1395	10	15	4077	-1391	6	11	4067	-1382	-3	2
LKC 'B'	4118	-1424	4109	-1415	4116	-1431	7	16	4112	-1426	2	11	4103	-1418	-6	3
LKC 'D'	4152	-1458	4144	-1450	4151	-1466	8	16	4146	-1460	2	10	4140	-1455	-3	5
LKC 'F'	4184	-1490	4174	-1480	4182	-1497	7	17	4176	-1490	0	10	4170	-1485	-5	5
LKC 'G'	4204	-1510	4199	-1505	4206	-1521	11	16	4202	-1516	6	11	4195	-1510	0	5
Muncie Creek	4250	-1556	4244	-1550	4250	-1565	9	15	4246	-1560	4	10	4239	-1554	-2	4
LKC 'H'	4258	-1564	4251	-1557	4258	-1573	9	16	4253	-1567	3	10	4250	-1565	1	8
LKC 'I'	4282	-1588	4276	-1582	4283	-1598	10	16	4276	-1590	2	8	4271	-1586	-2	4
LKC 'J'	4317	-1623	4312	-1618	4320	-1635	12	17	4310	-1624	1	6	4307	-1622	-1	4
Stark	4376	-1682	4373	-1679	4380	-1695	13	16	4374	-1688	6	9	4368	-1683	1	4
LKC 'K'	4378	-1684	4387	-1693	4382	-1697	13	4	4377	-1691	7	-2	4372	-1687	3	-6
Hushpuckney	4419	-1725	4417	-1723	4419	-1734	9	11	4418	-1732	7	9	4409	-1724	-1	1
LKC 'L'	4423	-1729	4419	-1725	4422	-1737	8	12	4421	-1735	6	10	4412	-1727	-2	2
Base Kansas City	4512	-1818	4504	-1810	4510	-1825	7	15	4508	-1822	4	12	4500	-1815	-3	5
Marmaton	4534	-1840	4527	-1833	4534	-1849	9	16	4530	-1844	4	11	4525	-1840	0	7
Pawnee	4609	-1915	4605	-1911	4611	-1926	11	15	4611	-1925	10	14	4600	-1915	0	4
Fort Scott	4635	-1941	4631	-1937	4638	-1953	12	16	4636	-1950	9	13	4626	-1941	0	4
Cherokee	4652	-1958	4645	-1951	4652	-1967	9	16	4649	-1963	5	12	4641	-1956	-2	5
Basal Penn Sand	Not Present				4780	-2095	N/A		Not Present				Not Present			
Ste. Genevieve	4776	-2082	4773	-2079	4805	-2120	38	41	4778	-2092	10	13	4768	-2083	1	4
St. Louis	4828	-2134	4831	-2137	4835	-2150	16	13	4826	-2140	6	3	4812	-2127	-7	-10
Spergen	5046	-2352	5041	-2347												
Warsaw	5266	-2572	5262	-2568												
Osage	5390	-2696	5384	-2690												
Kinderhook	5549	-2855	5544	-2850	Not Penetrated				Not Penetrated				Not Penetrated			
Viola	5701	-3007	5694	-3000												
Simpson	5789	-3095	5784	-3090												
Arbuckle	5806	-3112	5800	-3106												
Total Depth	5870	-3176	5866	-3172	5054	-2369	-807	-803	4984	-2298	-878	-874	5000	-2315	-861	-857
					Perf:	4019	4020	SQU'D	Perf:	4835	4842	ACTIVE	Perf:	4824	4828	P&A
						-1334	-1335			-2149	-2156			-2139	-2143	
						4838	4843	ACTIVE	Prod: 63703 BO				Prod: 7061 BO			
						-2153	-2158									
					Prod: 189121 BO											

NOTE: DST interval has been shifted 4' shallow/higher to correspond with the electric log curves.

ROCK TYPES



ACCESSORIES

MINERAL
- Chert, dark
- Dolomitic

FOSSIL
- F Fossils < 20%
- Oolite

STRINGER
- Limestone1
- Shale Carb

TEXTURE
- C Chalky
- L Lithogr

Glauconite
Pyrite
Sandy
Siliceous
Silty
Chert White
Euhed rhombs of dol or

Oomoldic
Sponge Spicules

Shale Green
Shale Gray
Shale Teal

OTHER SYMBOLS

MISC

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

DST

- DST1
- DST2
- DST3
- Core
- tail pipe

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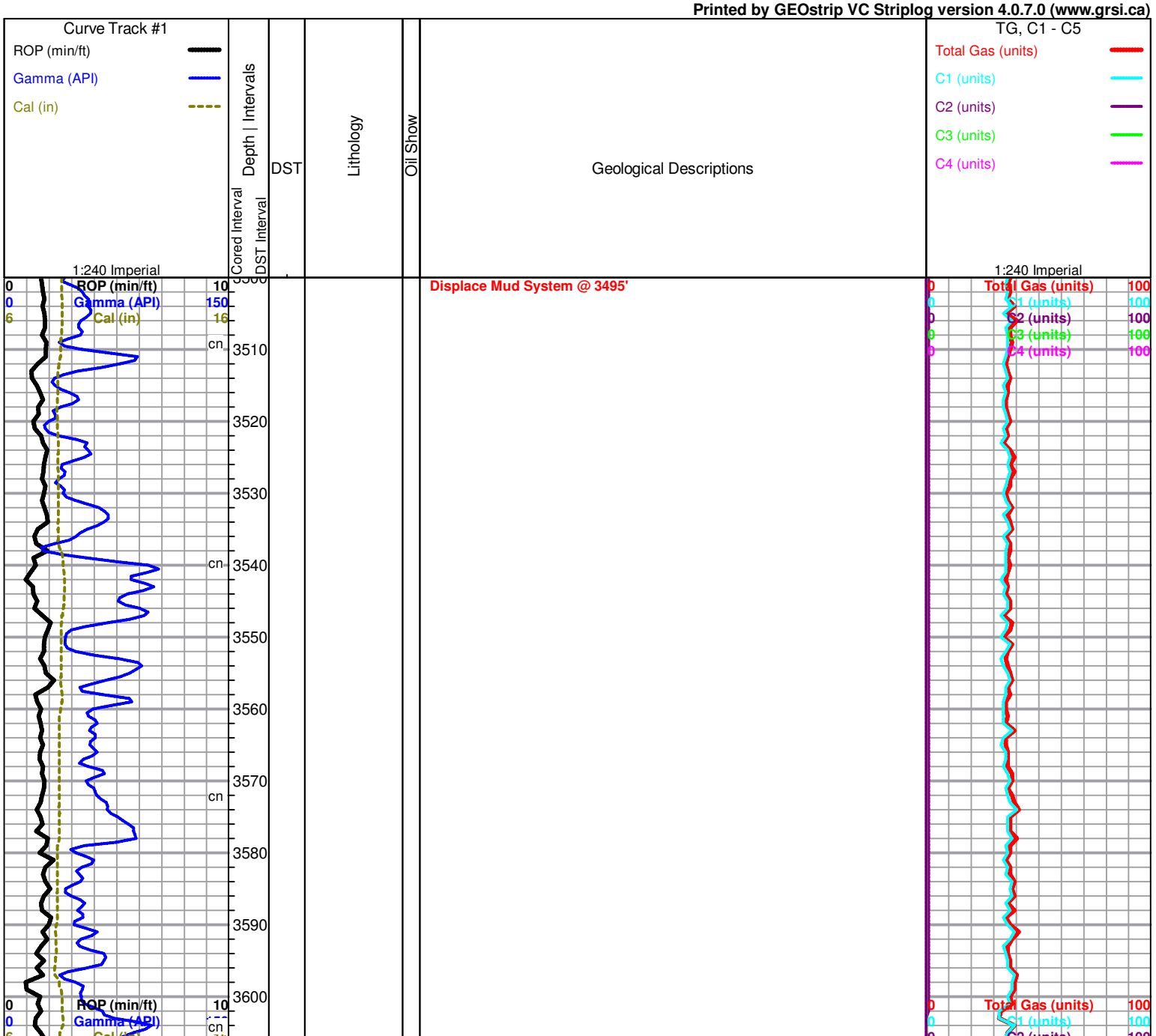
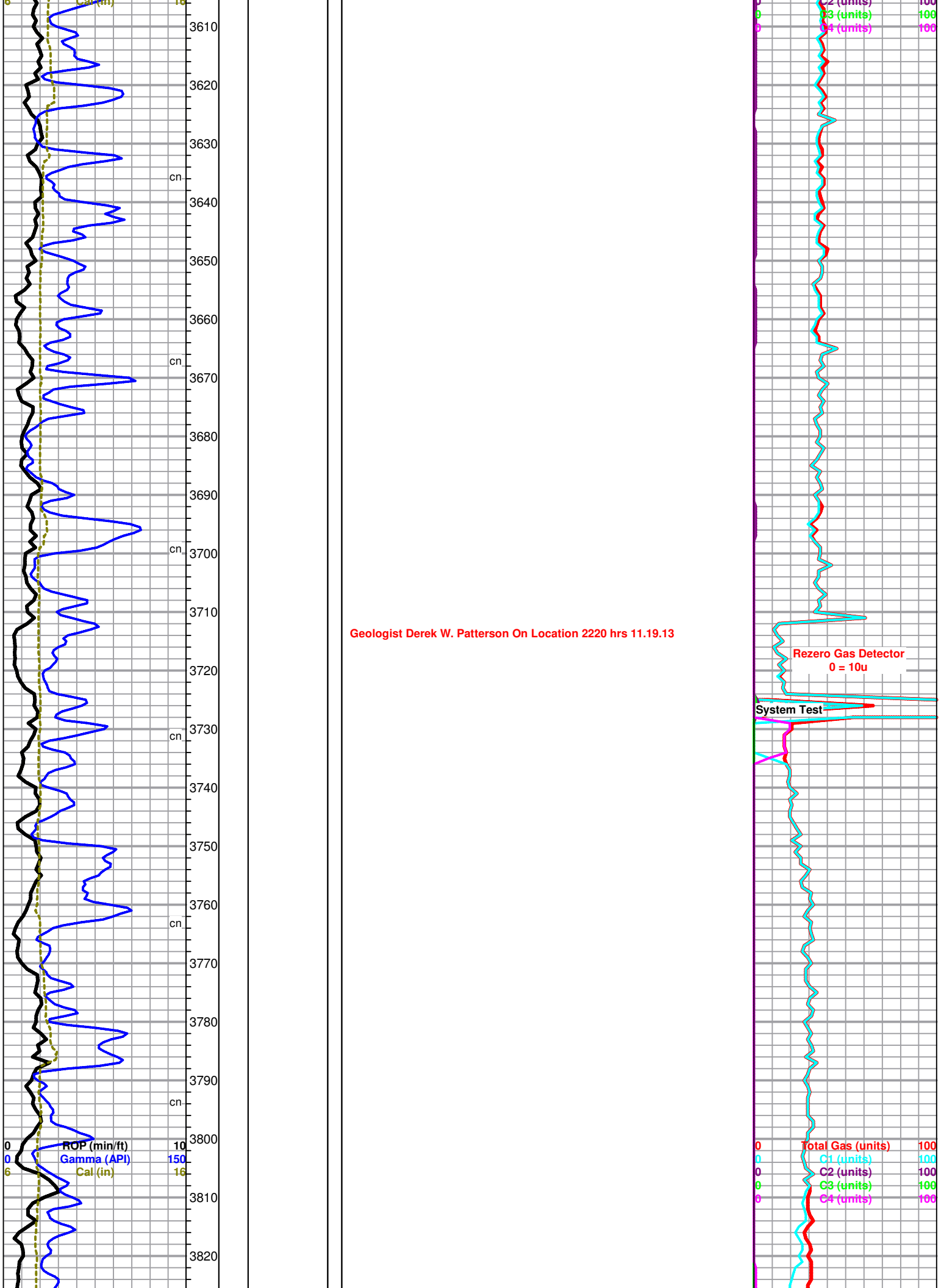
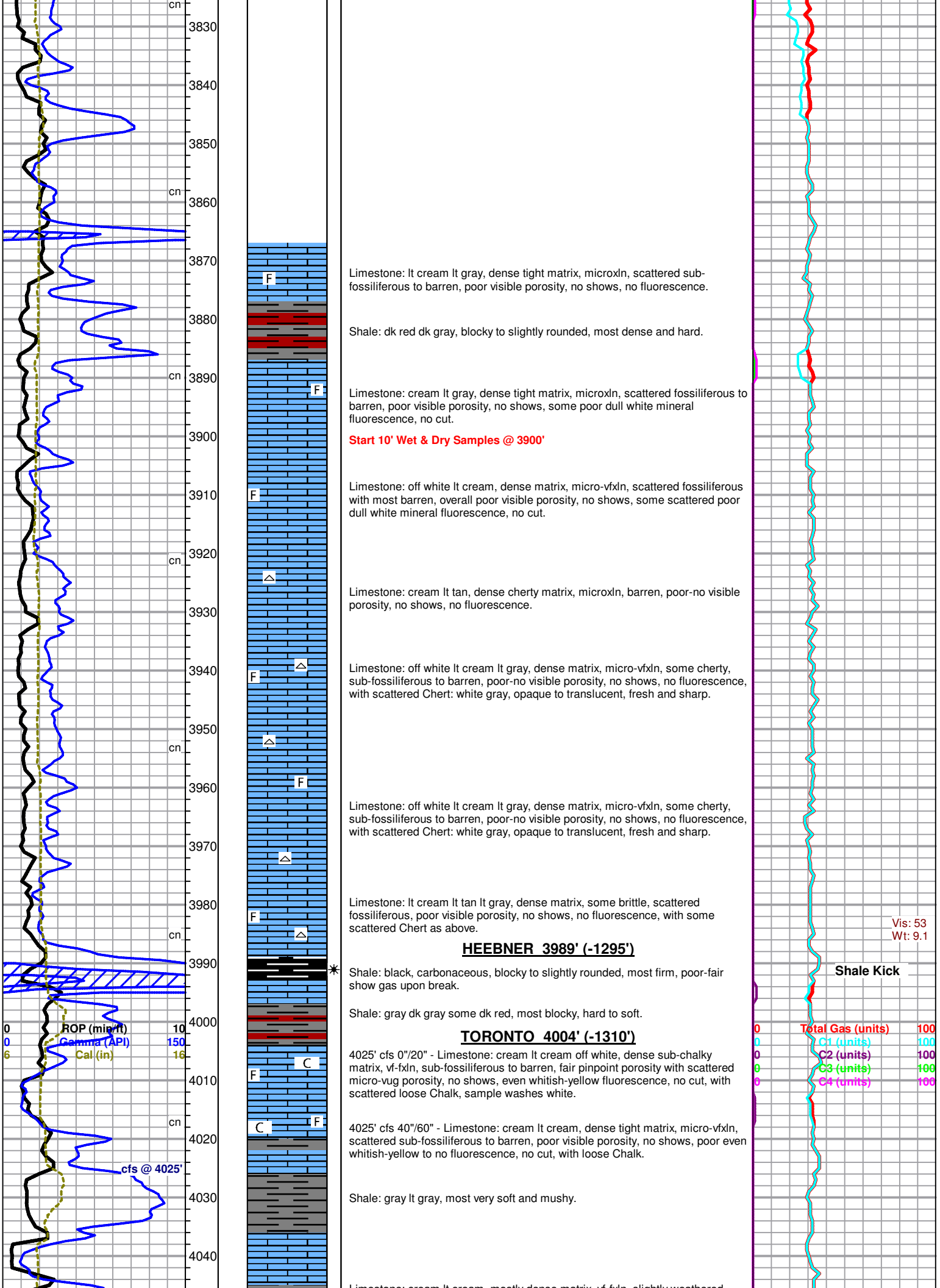



0 Cal (in) 16
3610
3620
3630
cn
3640
3650
3660
cn
3670
3680
3690
cn
3700
3710
3720
cn
3730
3740
3750
3760
cn
3770
3780
3790
cn
3800
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
3810
3820
Geologist Derek W. Patterson On Location 2220 hrs 11.19.13
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
Rezero Gas Detector
0 = 10u
System Test
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100


cn
3830
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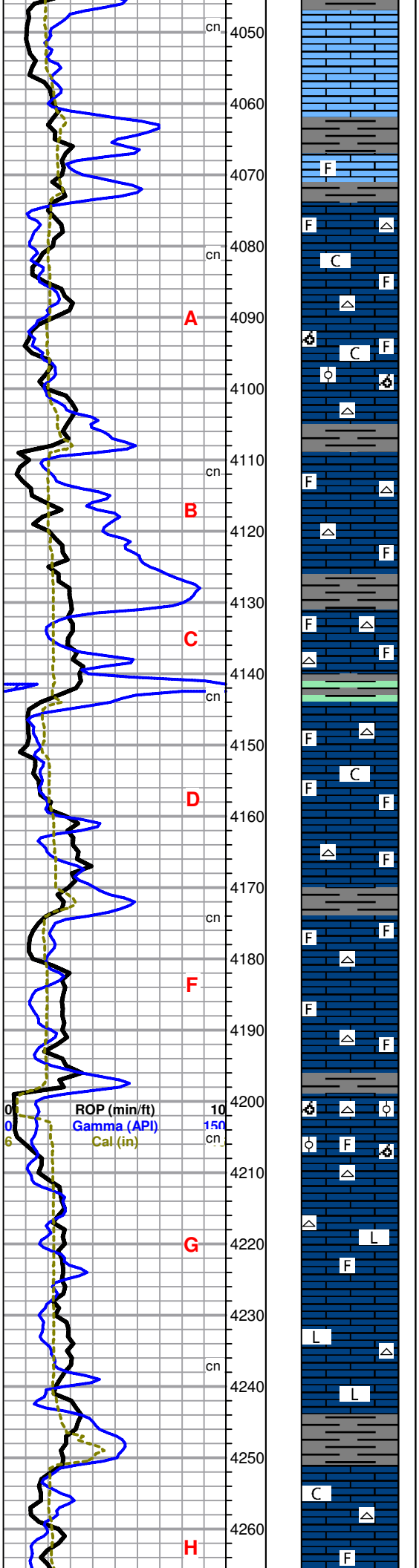
3960
3970
3980
cn
3990
4000
4010
cn
4020
cfs @ 4025'
4030
4040
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
F
C
Limestone: lt cream lt gray, dense tight matrix, microxln, scattered sub-fossiliferous to barren, poor visible porosity, no shows, no fluorescence.
Shale: dk red dk gray, blocky to slightly rounded, most dense and hard.
Limestone: cream lt gray, dense tight matrix, microxln, scattered fossiliferous to barren, poor visible porosity, no shows, some poor dull white mineral fluorescence, no cut.
Start 10' Wet & Dry Samples @ 3900'
Limestone: off white lt cream, dense matrix, micro-vfxln, scattered fossiliferous with most barren, overall poor visible porosity, no shows, some scattered poor dull white mineral fluorescence, no cut.
Limestone: cream lt tan, dense cherty matrix, microxln, barren, poor-no visible porosity, no shows, no fluorescence.
Limestone: off white lt cream lt gray, dense matrix, micro-vfxln, some cherty, sub-fossiliferous to barren, poor-no visible porosity, no shows, no fluorescence, with scattered Chert: white gray, opaque to translucent, fresh and sharp.
Limestone: off white lt cream lt gray, dense matrix, micro-vfxln, some cherty, sub-fossiliferous to barren, poor-no visible porosity, no shows, no fluorescence, with scattered Chert: white gray, opaque to translucent, fresh and sharp.
Limestone: lt cream lt tan lt gray, dense matrix, some brittle, scattered fossiliferous, poor visible porosity, no shows, no fluorescence, with some scattered Chert as above.
HEEBNER 3989' (-1295')
Shale: black, carbonaceous, blocky to slightly rounded, most firm, poor-fair show gas upon break.
Shale: gray dk gray some dk red, most blocky, hard to soft.
TORONTO 4004' (-1310')
4025' cfs 0"/20" - Limestone: cream lt cream off white, dense sub-chalky matrix, vf-fxln, sub-fossiliferous to barren, fair pinpoint porosity with scattered micro-vug porosity, no shows, even whitish-yellow fluorescence, no cut, with scattered loose Chalk, sample washes white.
4025' cfs 40"/60" - Limestone: cream lt cream, dense tight matrix, micro-vfxln, scattered sub-fossiliferous to barren, poor visible porosity, no shows, poor even whitish-yellow to no fluorescence, no cut, with loose Chalk.
Shale: gray lt gray, most very soft and mushy.
Vis: 53
Wt: 9.1
Shale Kick
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100



Limestone: cream lt cream, mostly dense matrix, vf-fxln, slightly weathered texture, most barren, fair pinpoint porosity in most, no shows, even lt yellow mineral fluorescence, no cut.

Shale: gray lt gray dk gray, blocky to rounded, hard to soft, with abundant interbedded Limestone: cream tan, dense tight matrix, micro-cryptoxln, sub-fossiliferous, poor visible porosity, no shows, poor dull white mineral fluorescence in few pieces, no cut.

LANSING-KANSAS CITY 4074' (-1380')

Limestone: lt cream cream, dense chalky matrix, microxln, most fossiliferous, poor visible porosity, no shows, even dull white mineral fluorescence, no cut, with scattered Chert: lt gray off white, opaque-translucent, fresh and sharp.

Limestone: cream lt cream, softer chalky matrix, vfxln, fossiliferous-oolitic, fair pinpoint to medium vuggy/oomoldic porosity in most, scattered poor whitish-yellow fluorescence, no cut, with Chert: gray lt gray off white cream, opaque-translucent, fresh and sharp, most fossiliferous, and some scattered Chalk in sample.

Shale: gray lt gray, blocky to rounded, most soft.

Limestone: cream tan, dense compact matrix, micro-cryptoxln, sub-fossiliferous, poor visible porosity, no shows, no fluorescence, with abundant Chert; tan brown, opaque-translucent, fresh and sharp.

Limestone: cream lt cream tan, dense tight matrix, micro-cryptoxln, abundant compact fossiliferous, poor-no visible porosity, no shows, no fluorescence, with some scattered Chert as above.

Shale: gray lt gray pale green, most rounded and soft.

Limestone: cream lt cream lt gray, dense chalky matrix, microxln, fossiliferous, poor-fair interfossiliferous porosity, no shows, poor dull whitish-yellow mineral fluorescence, no cut, with Chert: white cream gray, opaque, fresh and sharp, fossiliferous, and some scattered Chalk.

Limestone: tan brown mottled, dense matrix, vfxln, most fossiliferous, grainy texture, poor visible porosity, no shows, no fluorescence, with scattered Chert as above, loose Chalk drops out.

Shale: gray dk gray some dk red, blocky to rounded, mostly soft.

Limestone: cream lt cream off white, dense tight matrix, microxln, compact fossiliferous, poor visible porosity, no shows, poor dull white mineral fluorescence, no cut, with Chert: cream tan gray off white, opaque, fresh and sharp, some fossiliferous.

Limestone: cream tan, dense xln matrix, micro-vfxln, oolitic/fossiliferous with good-excellent oomoldic development and associated porosity, no shows, poor yellowish-white mineral fluorescence, no cut, with Chert: cream tan off white, opaque, fresh and sharp, some fossiliferous.

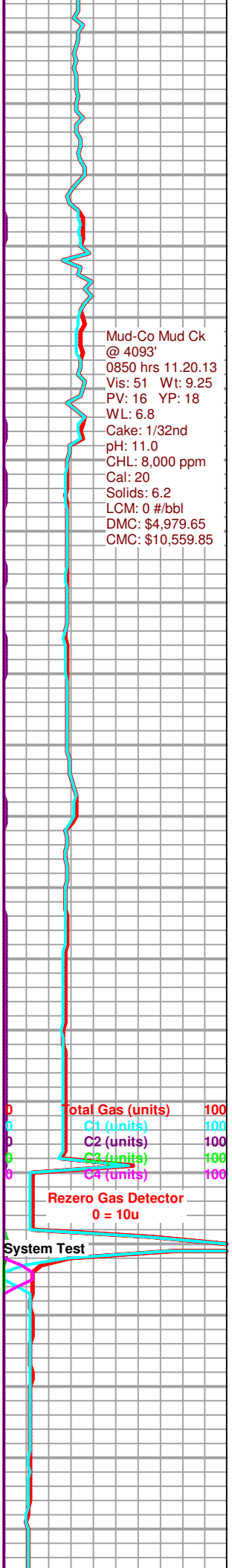
Limestone: cream tan, dense tight matrix, most cryptoxln to lithographic non-descript, some scattered sub-fossiliferous with most barren, poor-no visible porosity, no shows, no fluorescence, with Chert: gray cream off white, opaque-translucent, fresh and sharp, fossiliferous in part.

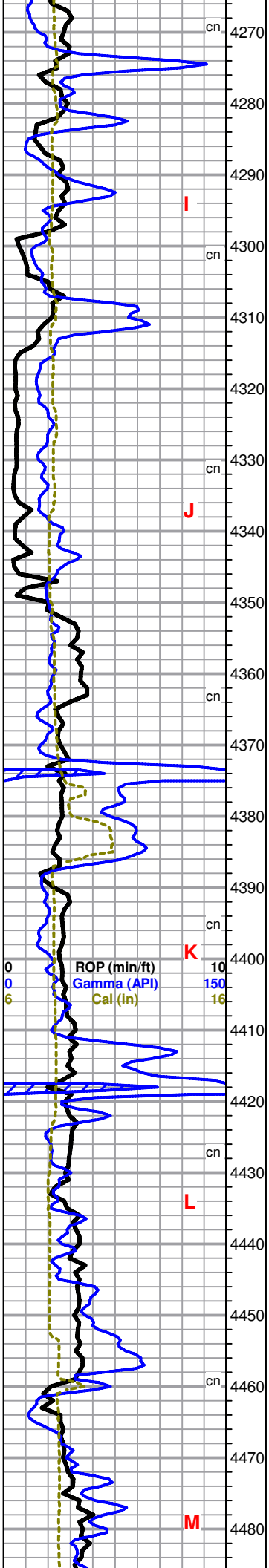
Limestone: cream tan, dense matrix, micro-cryptoxln, some lithographic non-descript, barren, poor-no visible porosity, no shows, poor dull white mineral fluorescence, no cut, with scattered Chert as above.

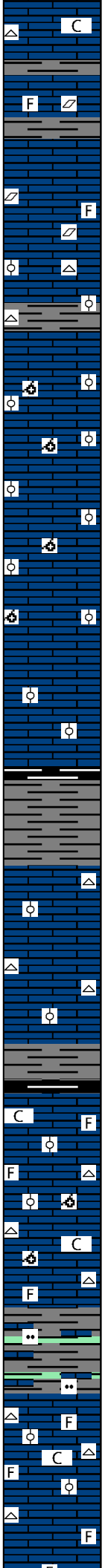
MUNCIE CREEK 4244' (-1550')

Shale: gray dk gray lt gray, most soft and mushy.

Limestone: off white lt gray lt cream, dense sub-chalky to sub-cherty matrix, micro-cryptoxln, scattered sub-fossiliferous to barren, trace poor vug development and associated porosity, no shows, even dull yellow-white mineral fluorescence, no cut, with fair amount of loose Chalk, and Chert: lt gray white, translucent, fresh and sharp.







Limestone: lt gray off white, dense matrix, micro-cryptoxln, fossiliferous in part, scattered imbedded calcite crystals with some 2ndary xln fill, overall poor visible porosity, no shows, some bright lt yellow mineral fluorescence in those with xln fill/inclusions, no cut, with some interbedded Shale.

Limestone: cream lt tan, dense matrix, micro-vfxln, some grainy, heavily oolitic to oocastic, poor visible porosity with most xln filled, no shows, poor lt yellow mineral fluorescence, no cut, with Chert: cream off white, opaque, fresh and sharp, oolitic-fossiliferous, and some loose Chalk.

Limestone: cream tan brown, dense matrix, vf-microxln, heavily oolitic with excellent oomoldic development and associated porosity, fair amount of 2ndary xln fill in porosity, no shows, even dull whitish-green mineral fluorescence, no cut.

Limestone: cream tan brown, dense matrix, vf-microxln, heavily oolitic with good oomoldic development and associated porosity, fair amount of 2ndary xln fill in porosity, no shows, even dull whitish-green mineral fluorescence, no cut.

Limestone: gray lt gray cream, dense cherty matrix, oolitic to sub-oolitic, poor visible porosity, no shows, little-no fluorescence, no cut.

STARK 4373' (-1679')

Shale: black, carbonaceous, blocky to rounded, softer, no gas show.

Shale: gray dk gray, blocky to rounded, soft.

Limestone: lt cream lt tan, dense tight matrix, microxln, occasional compact oolitic with most barren, poor visible porosity, no shows, little-no mineral fluorescence, no cut, with scattered Chert: lt gray white, opaque-translucent, fresh and sharp.

Limestone: cream lt cream, dense tight matrix, microxln, scattered compact oolitic to mostly barren, some 2ndary xln along edges, overall poor visible porosity, no shows, little-no mineral fluorescence, no cut, with continued scattered Chert as above.

HUSHPUCKNEY 4417' (-1723')

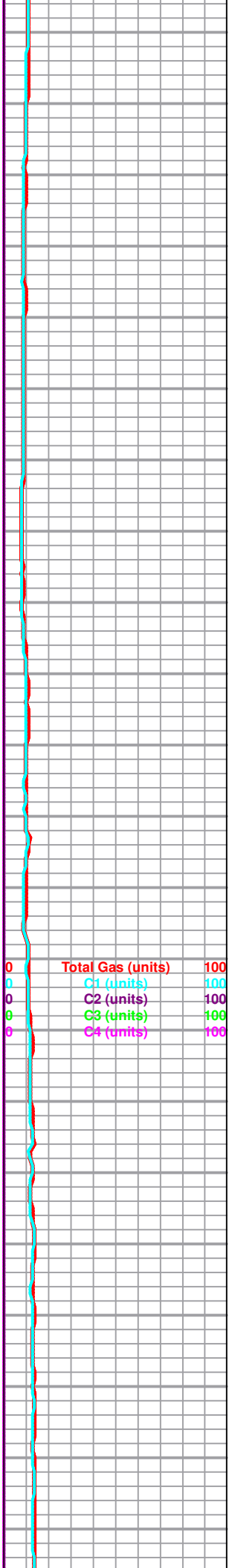
Shale: black dk gray, most carbonaceous, blocky and dense, no gas show.

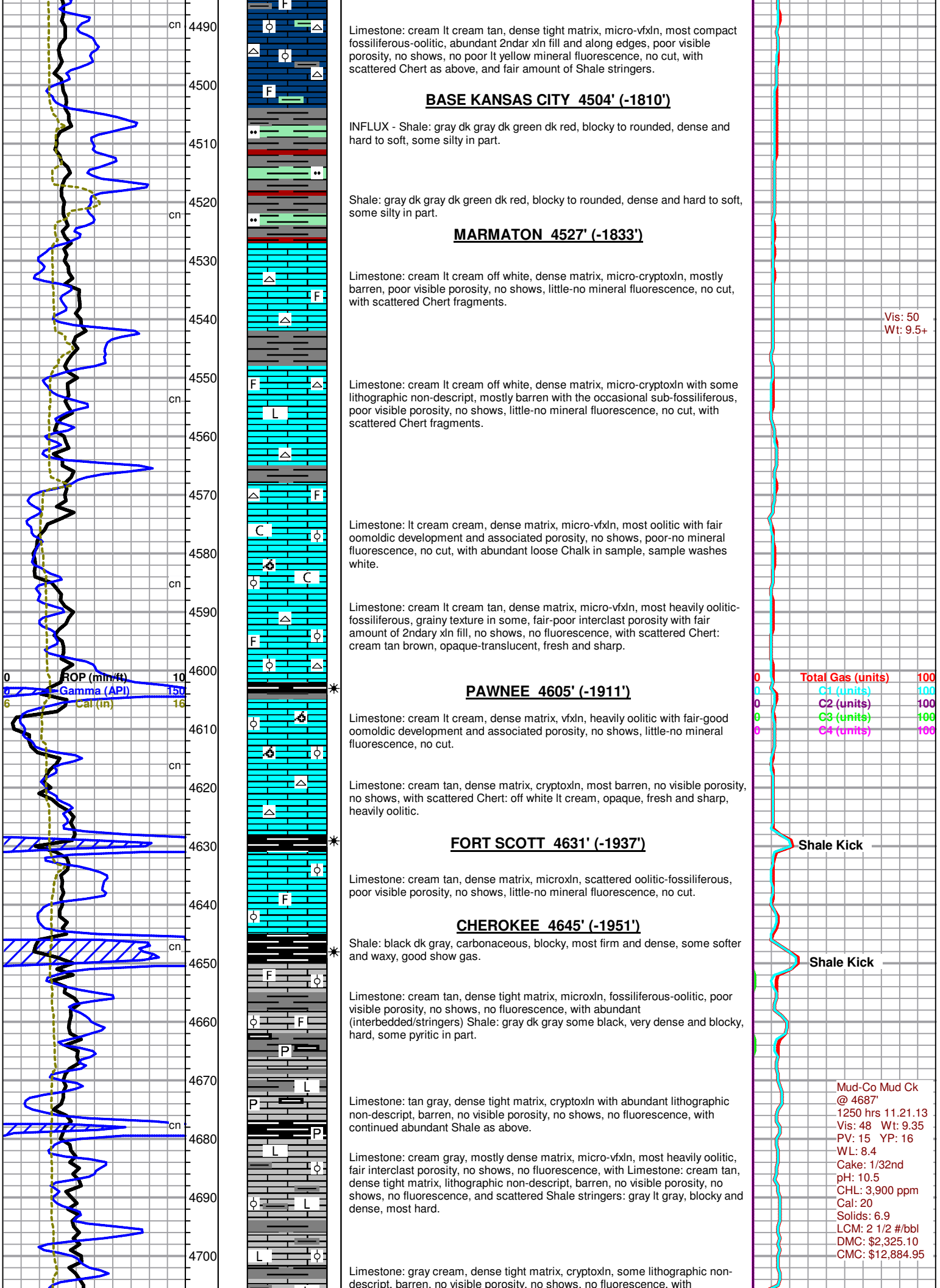
Limestone: cream lt cream, dense sub-chalky matrix, micro-vfxln, most fossiliferous-oolitic, some imbedded calcite crystals, overall poor visible porosity, no shows, little-no fluorescence, no cut.

Limestone: cream lt cream, dense sub-chalky matrix, microxln, fossiliferous-oolitic, occasional poor oomoldic/vug development and associated porosity, some fair interclast porosity, no shows, even dull lt yellow mineral fluorescence, no cut, with scattered Chert: lt gray cream tan, opaque-translucent, fresh and sharp, some fossiliferous in part.

Shale: gray dk gray dk green, blocky and firm, limey, most fissile to splintery, silty in part, with Limestone stringers as above, no shows.

Limestone: cream lt cream, dense sub-chalky matrix, vfxln, most fossiliferous-oolitic, compact, poor interfossiliferous porosity in few pieces, no shows, little-no mineral fluorescence, no cut, with Chert: gray cream tan, opaque, fresh and sharp, some fossiliferous in part.





Limestone: cream lt cream tan, dense tight matrix, micro-vfxln, most compact fossiliferous-oolitic, abundant 2ndar xln fill and along edges, poor visible porosity, no shows, no poor lt yellow mineral fluorescence, no cut, with scattered Chert as above, and fair amount of Shale stringers.

BASE KANSAS CITY 4504' (-1810')

INFLUX - Shale: gray dk gray dk green dk red, blocky to rounded, dense and hard to soft, some silty in part.

Shale: gray dk gray dk green dk red, blocky to rounded, dense and hard to soft, some silty in part.

MARMATON 4527' (-1833')

Limestone: cream lt cream off white, dense matrix, micro-cryptoxln, mostly barren, poor visible porosity, no shows, little-no mineral fluorescence, no cut, with scattered Chert fragments.

Limestone: cream lt cream off white, dense matrix, micro-cryptoxln with some lithographic non-descript, mostly barren with the occasional sub-fossiliferous, poor visible porosity, no shows, little-no mineral fluorescence, no cut, with scattered Chert fragments.

Limestone: lt cream cream, dense matrix, micro-vfxln, most oolitic with fair oomoldic development and associated porosity, no shows, poor-no mineral fluorescence, no cut, with abundant loose Chalk in sample, sample washes white.

Limestone: cream lt cream tan, dense matrix, micro-vfxln, most heavily oolitic-fossiliferous, grainy texture in some, fair-poor interclast porosity with fair amount of 2ndary xln fill, no shows, no fluorescence, with scattered Chert: cream tan brown, opaque-translucent, fresh and sharp.

PAWNEE 4605' (-1911')

Limestone: cream lt cream, dense matrix, vfxln, heavily oolitic with fair-good oomoldic development and associated porosity, no shows, little-no mineral fluorescence, no cut.

Limestone: cream tan, dense matrix, cryptoxln, most barren, no visible porosity, no shows, with scattered Chert: off white lt cream, opaque, fresh and sharp, heavily oolitic.

FORT SCOTT 4631' (-1937')

Limestone: cream tan, dense matrix, microxln, scattered oolitic-fossiliferous, poor visible porosity, no shows, little-no mineral fluorescence, no cut.

CHEROKEE 4645' (-1951')

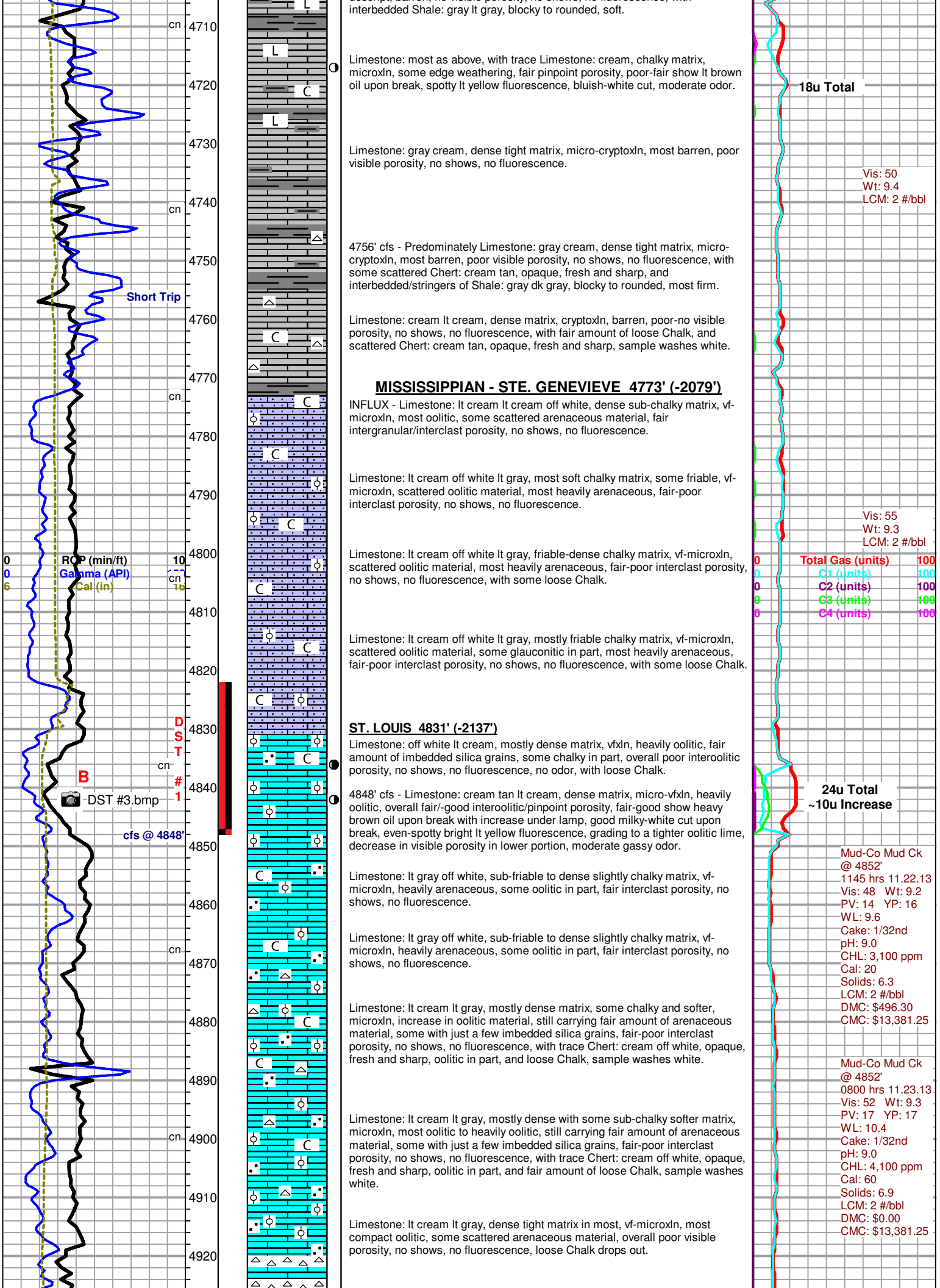
Shale: black dk gray, carbonaceous, blocky, most firm and dense, some softer and waxy, good show gas.

Limestone: cream tan, dense tight matrix, microxln, fossiliferous-oolitic, poor visible porosity, no shows, no fluorescence, with abundant (interbedded/stringers) Shale: gray dk gray some black, very dense and blocky, hard, some pyritic in part.

Limestone: tan gray, dense tight matrix, cryptoxln with abundant lithographic non-descript, barren, no visible porosity, no shows, no fluorescence, with continued abundant Shale as above.

Limestone: cream gray, mostly dense matrix, micro-vfxln, most heavily oolitic, fair interclast porosity, no shows, no fluorescence, with Limestone: cream tan, dense tight matrix, lithographic non-descript, barren, no visible porosity, no shows, no fluorescence, and scattered Shale stringers: gray lt gray, blocky and dense, most hard.

Limestone: gray cream, dense tight matrix, cryptoxln, some lithographic non-descript, barren, no visible porosity, no shows, no fluorescence, with



interbedded Shale: gray lt gray, blocky to rounded, soft.

Limestone: most as above, with trace Limestone: cream, chalky matrix, microxln, some edge weathering, fair pinpoint porosity, poor-fair show lt brown oil upon break, spotty lt yellow fluorescence, bluish-white cut, moderate odor.

18u Total

Limestone: gray cream, dense tight matrix, micro-cryptoxln, most barren, poor visible porosity, no shows, no fluorescence.

Vis: 50
Wt: 9.4
LCM: 2 #/bbl

4756' cfs - Predominately Limestone: gray cream, dense tight matrix, micro-cryptoxln, most barren, poor visible porosity, no shows, no fluorescence, with some scattered Chert: cream tan, opaque, fresh and sharp, and interbedded/stringers of Shale: gray dk gray, blocky to rounded, most firm.

Limestone: cream lt cream, dense matrix, cryptoxln, barren, poor-no visible porosity, no shows, no fluorescence, with fair amount of loose Chalk, and scattered Chert: cream tan, opaque, fresh and sharp, sample washes white.

MISSISSIPPIAN - STE. GENEVIEVE 4773' (-2079')

INFLUX - Limestone: lt cream lt cream off white, dense sub-chalky matrix, vf-microxln, most oolitic, some scattered arenaceous material, fair intergranular/interclast porosity, no shows, no fluorescence.

Limestone: lt cream off white lt gray, most soft chalky matrix, some friable, vf-microxln, scattered oolitic material, most heavily arenaceous, fair-poor interclast porosity, no shows, no fluorescence.

Vis: 55
Wt: 9.3
LCM: 2 #/bbl

Limestone: lt cream off white lt gray, friable-dense chalky matrix, vf-microxln, scattered oolitic material, most heavily arenaceous, fair-poor interclast porosity, no shows, no fluorescence, with some loose Chalk.

Limestone: lt cream off white lt gray, mostly friable chalky matrix, vf-microxln, scattered oolitic material, some glauconitic in part, most heavily arenaceous, fair-poor interclast porosity, no shows, no fluorescence, with some loose Chalk.

ST. LOUIS 4831' (-2137')

Limestone: off white lt cream, mostly dense matrix, vfxln, heavily oolitic, fair amount of imbedded silica grains, some chalky in part, overall poor interoolitic porosity, no shows, no fluorescence, no odor, with loose Chalk.

4848' cfs - Limestone: cream tan lt cream, dense matrix, micro-vfxln, heavily oolitic, overall fair/-good interoolitic/pinpoint porosity, fair-good show heavy brown oil upon break with increase under lamp, good milky-white cut upon break, even-spotty bright lt yellow fluorescence, grading to a tighter oolitic lime, decrease in visible porosity in lower portion, moderate gassy odor.

24u Total
~10u Increase

Limestone: lt gray off white, sub-friable to dense slightly chalky matrix, vf-microxln, heavily arenaceous, some oolitic in part, fair interclast porosity, no shows, no fluorescence.

Mud-Co Mud Ck
@ 4852'
1145 hrs 11.22.13
Vis: 48 Wt: 9.2
PV: 14 YP: 16
WL: 9.6
Cake: 1/32nd
pH: 9.0
CHL: 3,100 ppm
Cal: 20
Solids: 6.3
LCM: 2 #/bbl
DMC: $496.30
CMC: $13,381.25

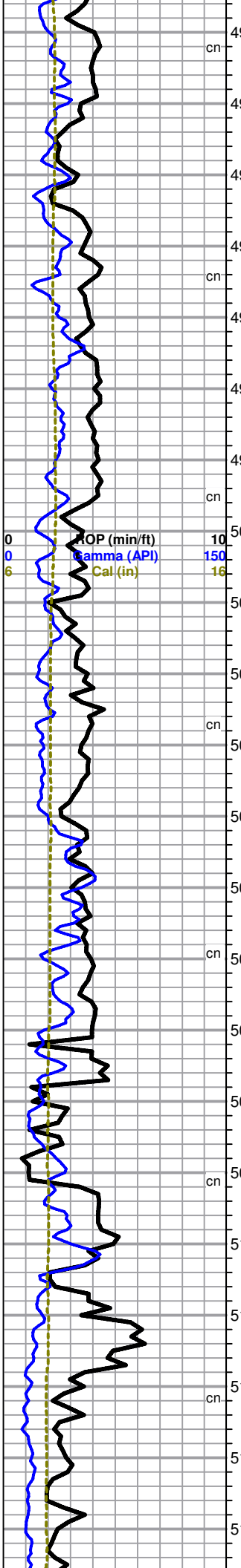
Limestone: lt gray off white, sub-friable to dense slightly chalky matrix, vf-microxln, heavily arenaceous, some oolitic in part, fair interclast porosity, no shows, no fluorescence.

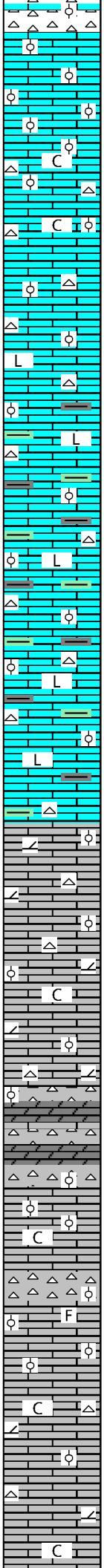
Limestone: lt cream lt gray, mostly dense matrix, some chalky and softer, microxln, increase in oolitic material, still carrying fair amount of arenaceous material, some with just a few imbedded silica grains, fair-poor interclast porosity, no shows, no fluorescence, with trace Chert: cream off white, opaque, fresh and sharp, oolitic in part, and loose Chalk, sample washes white.

Mud-Co Mud Ck
@ 4852'
0800 hrs 11.23.13
Vis: 52 Wt: 9.3
PV: 17 YP: 17
WL: 10.4
Cake: 1/32nd
pH: 9.0
CHL: 4,100 ppm
Cal: 60
Solids: 6.9
LCM: 2 #/bbl
DMC: $0.00
CMC: $13,381.25

Limestone: lt cream lt gray, mostly dense with some sub-chalky softer matrix, microxln, most oolitic to heavily oolitic, still carrying fair amount of arenaceous material, some with just a few imbedded silica grains, fair-poor interclast porosity, no shows, no fluorescence, with trace Chert: cream off white, opaque, fresh and sharp, oolitic in part, and fair amount of loose Chalk, sample washes white.

Limestone: lt cream lt gray, dense tight matrix in most, vf-microxln, most compact oolitic, some scattered arenaceous material, overall poor visible porosity, no shows, no fluorescence, loose Chalk drops out.





Limestone: lt cream, dense tight matrix, microxln, compact oolitic, overall poor interoolitic porosity, no shows, no fluorescence, with INFLUX Chert: lt gray off white lt cream, opaque-translucent, fresh and sharp, oolitic in part.

Limestone: lt cream, dense tight matrix, microxln, compact oolitic, overall poor interoolitic porosity, no shows, no fluorescence.

Limestone: cream lt cream, mostly dense tight matrix, some softer and chalky, micro-vfxln, heavily oolitic, some fair interoolitic porosity, no shows, no fluorescence, with scattered Chert: lt gray off white lt cream, opaque-translucent, fresh and sharp, oolitic in part.

Limestone: cream tan lt brown, dense tight sub-chalky matrix, micro-cryptoxln, most compact oolitic with some barren to lithographic non-descript, poor-no visible porosity, no shows, no fluorescence, with fair amount of Chert as above.

Limestone: cream tan, dense matrix, micro-cryptoxln, some lithographic non-descript, compact oolitic to barren, poor-no visible porosity, no shows, no fluorescence, with continued scattered Chert, and carrying fair amount of Shale content: gray dk gray dk green, blocky and dense (background?).

Limestone: cream tan, dense matrix, micro-cryptoxln, some lithographic non-descript, compact oolitic to barren, poor-no visible porosity, no shows, no fluorescence, with continued scattered Chert, and carrying increased amount of Shale content: gray dk gray dk green, blocky and dense (background?).

Limestone: cream tan, dense matrix, micro-cryptoxln, some lithographic non-descript, compact oolitic to barren, poor-no visible porosity, no shows, no fluorescence, with continued scattered Chert, and carrying increased amount of Shale content: gray dk gray dk green, blocky and dense (background?).

SPERGEN 5041' (-2347')

INFLUX - Limestone: tan cream brown some gray, dense dolomitic matrix, micro-cryptoxln, oolitic, no visible porosity, no shows, no fluorescence, with some scattered Chert: cream tan, opaque, fresh and sharp, barren, and still carrying fair amount of Shale as above.

Limestone: tan cream some gray, dense dolomitic matrix, micro-cryptoxln, oolitic, no visible porosity, no shows, no fluorescence, with INFLUX Limestone: off white lt gray some mottled, softer chalky matrix, microxln, some oolitic in part, overall poor visible porosity, no shows, no fluorescence, and scattered Chert: cream tan, opaque, fresh and sharp, barren.

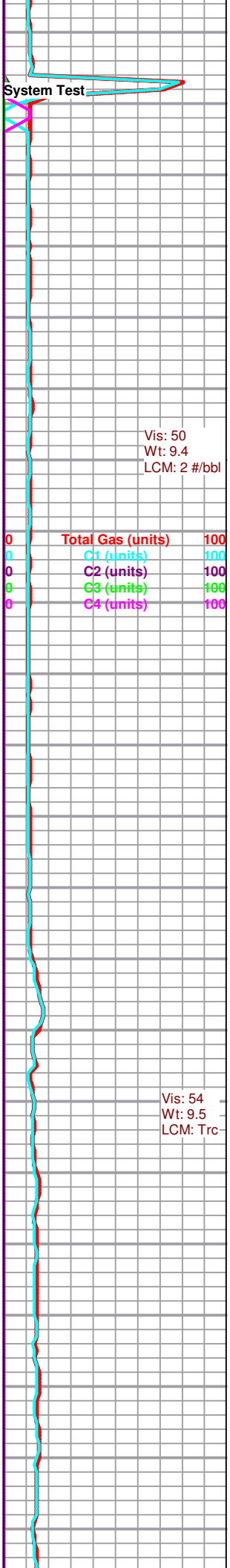
INFLUX - Chert: gray smokey gray some cream to tan, opaque-translucent, fresh and sharp, oolitic, no shows, with INLUX Dolomite: lt cream, dense to sub-friable matrix, vf-fxln, sucrosic texture, fair interxln porosity, no shows, no fluorescence.

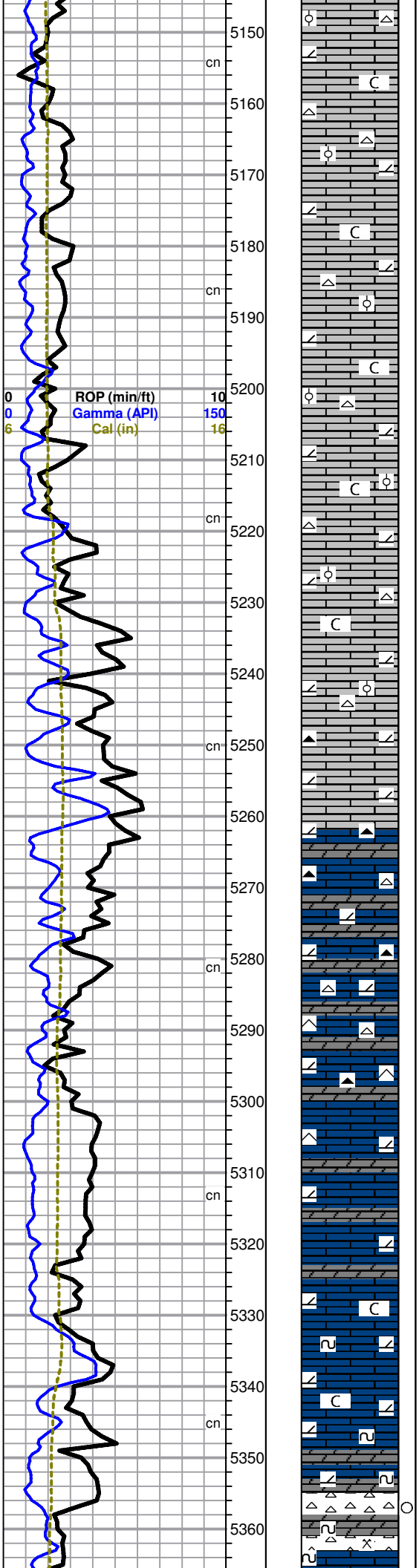
Limestone: cream lt cream, dense tight to softer sub-chalky matrix, vfxln, scattered sub-oolitic to barren, poor visible porosity, no shows, no fluorescence, with some loose Chalk.

Chert: gray lt gray cream, translucent, fresh and sharp, most fossiliferous-oolitic, some spiculitic in part.

Limestone: cream lt cream, mostly dense matrix, vfxln, most oolitic to sub-oolitic with some barren, poor visible porosity, no shows, no fluorescence.

Limestone: cream lt cream, sub-chalky to dolomitic matrix, vf-fxln, some grainy, sub-oolitic to barren, fair interclast/interxln porosity, no shows, no fluorescence, with scattered Chert: lt gray off white, opaque-translucent, fresh and sharp, fossiliferous-oolitic in part, and some loose Chalk in sample.





Limestone: cream lt cream, sub-chalky to dolomitic matrix, vf-fxln, some grainy, sub-oolitic to barren, fair interclast/interxln porosity, no shows, no fluorescence, with scattered Chert: lt gray off white, opaque-translucent, fresh and sharp, fossiliferous-oolitic in part, and some loose Chalk in sample.

Limestone: cream lt cream some tan mottled, sub-chalky to dolomitic matrix, vf-fxln, increase in dolomitic material, some grainy, mostly barren with some sub-oolitic, fair interclast/interxln porosity, no shows, no fluorescence, with scattered Chert: lt gray off white, opaque-translucent, fresh and sharp, fossiliferous-oolitic in part, and some loose Chalk in sample.

Limestone: cream lt cream gray some tan mottled, sub-chalky to dolomitic matrix, vf-fxln, fair amount of dolomitic material, some grainy, mostly barren with some sub-oolitic, fair interclast/interxln porosity, no shows, no fluorescence, with scattered Chert: lt gray off white, opaque-translucent, fresh and sharp, fossiliferous-oolitic in part, and some loose Chalk in sample.

Limestone: cream lt cream gray some tan mottled, sub-chalky to dolomitic matrix, vf-fxln, fair amount of dolomitic material, some grainy, mostly barren with some sub-oolitic, fair interclast/interxln porosity, no shows, no fluorescence, with scattered Chert: lt gray off white, opaque-translucent, fresh and sharp, fossiliferous-oolitic in part, and some loose Chalk in sample.

INFLUX - Dolomitic Limestone: lt gray gray dk gray cream dk cream most mottled, dense dolomitic matrix, vf-fxln, barren, some grainy, overall poor visible porosity, no shows, no fluorescence, with scattered Chert: gray cream tan mottled, opaque-translucent, fresh and sharp, majority fossiliferous.

WARSAW 5262' (-2568')

Dolomitic Limestone: lt gray gray dk gray cream dk cream most mottled, dense dolomitic matrix, vf-fxln, barren, some grainy, overall poor visible porosity, no shows, no fluorescence, with scattered Dolomite: gray lt gray, sucrosic matrix, fxln, fair interxln porosity, no shows, no fluorescence, and scattered Chert: gray cream tan mottled, opaque-translucent, fresh and sharp, majority fossiliferous.

Dolomitic Limestone: lt gray gray dk gray cream dk cream most mottled, dense dolomitic matrix, vf-fxln, barren, some grainy, some fair pinpoint/interxln porosity, no shows, no fluorescence, with scattered Dolomite: gray lt gray, sucrosic matrix, fxln, fair interxln porosity, no shows, no fluorescence, scattered Chert as above, and fair amount of loose translucent Silica shards (chalcedonic Chert?).

Dolomitic Limestone: lt gray gray cream dk cream most mottled, dense dolomitic matrix, vf-fxln, some scattered large imbedded clasts, some grainy, overall poor visible porosity, no shows, no fluorescence, with scattered Dolomite: gray lt gray, sucrosic matrix, fxln, fair interxln porosity, no shows, no fluorescence, most Chert and Silica shards drop out.

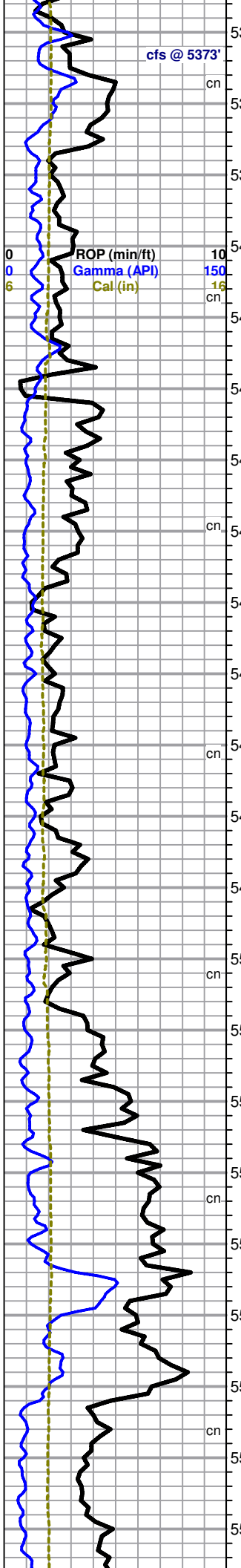
Dolomitic Limestone: lt gray off white lt cream mottled, dense dolomitic to softer sub-chalky matrix, vf-fxln, most barren, grainy, becoming glauconitic, overall poor-fair interxln porosity, no shows, no fluorescence, with fair amount of loose Chalk.

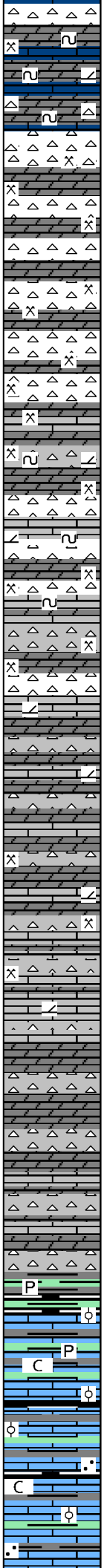
5373' cfs - Dolomite/Dolomitic Limestone: gray lt gray off white cream mottled, dense matrix, fxln, much glauconitic, fair interxln/pinpoint porosity, no shows, no fluorescence, with increase in Chert: clear smokey gray, translucent, fresh and sharp, some fossiliferous-spiculitic in part, couple of pieces with poor lt brown stain, no live shows, spotty lt yellow fluorescence in stained area, no cut, no odor in sample.

Mud-Co Mud Ck
@ 5148'
1110 hrs 11.24.13
Vis: 53 Wt: 9.35
PV: 17 YP: 18
WL: 9.6
Cake: 1/32nd
pH: 9.0
CHL: 4,350 ppm
Cal: 80
Solids: 6.8
LCM: 3 #/bbl
DMC: $1,330.35
CMC: $14,711.60

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

Vis: 48
Wt: 9.4
LCM: 4 #/bbl





Predominately Dolomite: gray lt gray off white, dense sucrosic matrix, vfxln, spiculitic in part, abundant glauconitic, overall poor visible porosity, no shows, no fluorescence, with Dolomitic Limestone: gray lt gray mottled, dense dolomitic matrix, vf-fxln, poor visible porosity, no shows, no fluorescence, and scattered Chert as above, no shows.

OSAGE 5384' (-2690')

Chert: clear smokey gray, translucent-opaque, fresh and sharp, some fossiliferous-spiculitic in part, no shows, no fluorescence, with Dolomite: gray lt gray off white, dense to slightly friable sucrosic matrix, vfxln, spiculitic in part, overall fair interxln/pinpoint porosity, no shows, no fluorescence.

Chert: clear smokey gray, translucent-opaque, fresh and sharp, some fossiliferous-spiculitic in part, no shows, no fluorescence, with Dolomite: gray lt gray off white, dense to slightly friable sucrosic matrix, vfxln, spiculitic in part, overall fair interxln/pinpoint porosity, no shows, no fluorescence.

Dolomite: gray lt gray off white, dense to slightly friable sucrosic matrix, vfxln, spiculitic in part, overall fair interxln/pinpoint porosity, no shows, no fluorescence, with Chert: clear smokey gray, translucent-opaque, fresh and sharp, some fossiliferous-spiculitic in part, no shows, no fluorescence, and trace Limestone: gray dk gray mottled, dense dolomitic matrix, vf-fxln, barren, glauconitic in part, poor interxln porosity, no shows, no fluorescence.

Dolomite: gray lt gray off white, dense to slightly friable sucrosic matrix, vfxln, spiculitic in part, overall fair interxln/pinpoint porosity, no shows, no fluorescence, with Chert: clear smokey gray, translucent-opaque, fresh and sharp, some fossiliferous-spiculitic in part, no shows, no fluorescence, and trace Limestone: gray dk gray mottled, dense dolomitic matrix, vf-fxln, barren, glauconitic in part, poor interxln porosity, no shows, no fluorescence.

Dolomite: gray lt gray off white, dense to slightly friable sucrosic matrix, vfxln, spiculitic in part, overall fair interxln/pinpoint porosity, no shows, no fluorescence, with abundant Chert: gray lt gray smokey gray frosted, translucent-opaque, fresh and sharp, some fossiliferous-spiculitic in part, no shows, no fluorescence, and trace Limestone: gray dk gray mottled, dense dolomitic matrix, vf-fxln, barren, poor interxln porosity, no shows, no fluorescence.

Limestone: tan gray, dense dolomitic matrix, vfxln, barren, poor interxln/micro pinpoint porosity, no shows, no fluorescence, with some scattered Dolomite as above, and continued Chert, no shows.

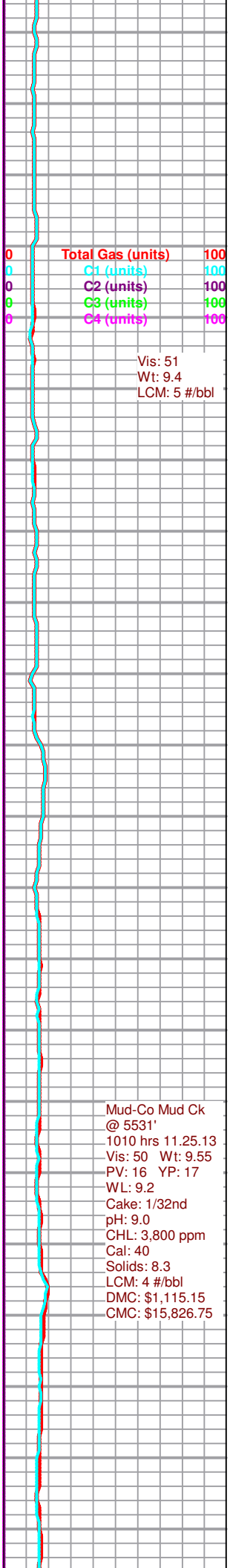
Dolomite: lt gray off white, very dense matrix, micro-vfxln, barren, poor visible porosity, no shows, scattered lt yellow mineral fluorescence, no cut, with nearly 50% Chert: gray lt gray smokey gray, opaque-translucent, fresh and sharp, some frosted.

Dolomite: lt gray off white, very dense matrix, micro-vfxln, barren, poor visible porosity, no shows, scattered lt yellow mineral fluorescence, no cut, with continued abundant Chert: gray lt gray smokey gray, opaque-translucent, fresh and sharp, some frosted, and scattered Limestone: cream tan, dense brittle matrix, cryptoxln, barren, no visible porosity, no shows, no fluorescence.

KINDERHOOK 5544' (-2850')

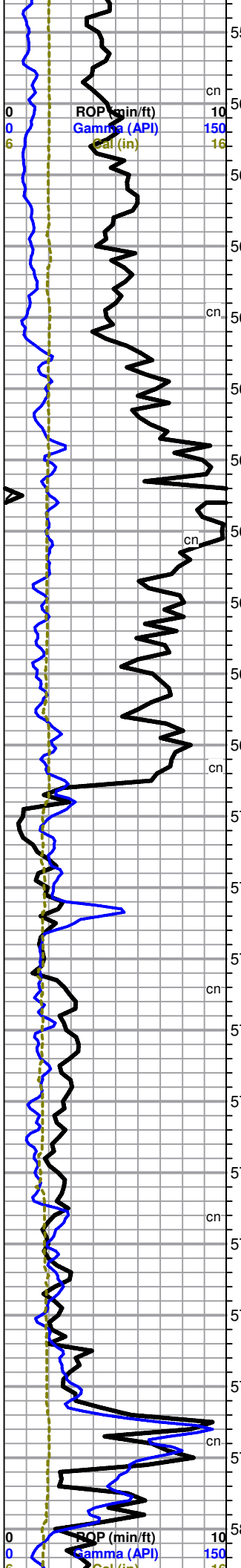
INFLUX - Shale: gray dk gray pale green some black carbonaceous, blocky and firm to softer and waxy, splintery-fissile material, some pyritic with Limestone: cream lt cream, dense dolomitic to chalky matrix, micro-cryptoxln, barren to sub-oolitic, poor-fair interoolitic to poor-no interxln porosity, no shows, no fluorescence, and some loose Chalk in sample.

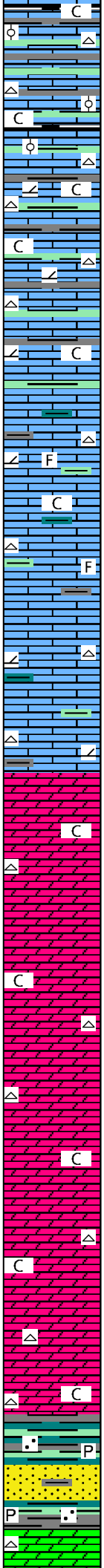
Predominately Limestone: tan brown cream, dense matrix, micro-vfxln, most compact oolitic with some sub-arenaceous material, fair interclast porosity throughout, no shows, no fluorescence, with continued abundant Shale, and fair amount of loose Chalk.



Vis: 51
Wt: 9.4
LCM: 5 #/bbl

Mud-Co Mud Ck
@ 5531'
1010 hrs 11.25.13
Vis: 50 Wt: 9.55
PV: 16 YP: 17
WL: 9.2
Cake: 1/32nd
pH: 9.0
CHL: 3,800 ppm
Cal: 40
Solids: 8.3
LCM: 4 #/bbl
DMC: $1,115.15
CMC: $15,826.75





Limestone: tan brown cream, dense tight to sub-chalky matrix, vfxln, compact oolitic to barren, fair-poor interclast/interxln porosity, no shows, no fluorescence, with Shale: gray dk gray dk green trace black carbonaceous, most blocky and firm, abundant splintery material, some scattered Chert: cream gray, translucent, fresh and sharp, and some loose Chalk.

Limestone: tan brown cream, dense tight dolomitic to sub-chalky matrix, vfxln, most barren, poor visible porosity, no shows, no fluorescence, with Shale: gray dk gray dk green, most blocky and firm, abundant splintery material, Chert: cream gray, translucent, fresh and sharp, becoming oolitic/fossiliferous, and some loose Chalk.

Limestone: cream tan gray, dense tight slightly dolomitic matrix, micro-vfxln, mostly barren with occasional sub-fossiliferous, poor visible porosity, no shows, no fluorescence, with scattered Chert: cream gray, translucent, fresh and sharp, oolitic/fossiliferous, scattered Shale stringers: gray dk gray teal pale green, blocky and firm, some pyritic, most splintery, and fair amount of chalky material/loose Chalk.

Limestone: gray dk gray dk brown, dense tight slightly dolomitic matrix, micro-vfxln, barren, poor visible porosity, no shows, no fluorescence, with trace Chert: cream gray, translucent, fresh and sharp, occasional Shale stringer: gray dk gray teal pale green, blocky and firm, some pyritic, most splintery, Chalk drops out.

VIOLA 5694' (-3000')

INFLUX - Dolomite: white lt cream, sub-friable to friable to dense tight matrix, f-vfxln, good sucrosic/small rhombic development and associated porosity, no shows, even whitish-yellow mineral fluorescence, no cut, sample very chalky, washes white, no odor..

Dolomite: white lt gray gray, mostly dense matrix, some sub-friable, vfxln, fair-poor xln development with some slightly sucrosic, fair interxln porosity, no shows, even lt whitish-yellow mineral fluorescence, no cut, with a few scattered pieces of Chert: cream tan gray, opaque-translucent, fresh and sharp with some slightly weathered, decrease in chalky residue from above.

Dolomite: gray dk gray dk tan, very dense tight matrix, most blocky, micro-vfxln, poor xln development and associated porosity, no shows, poor dull whitish-yellow to no mineral fluorescence, no cut, with trace Chert: cream off white, opaque, fresh and sharp to slighlty weathered, with continued chalky residue throughout.

Dolomite: gray dk gray dk tan, very dense tight matrix, most very blocky, micro-vfxln, poor xln development, few scattered micro vugs, overall poor visible porosity, no shows, no fluorescence, no cut, with Chert as above, still carrying scattered loose Chalk.

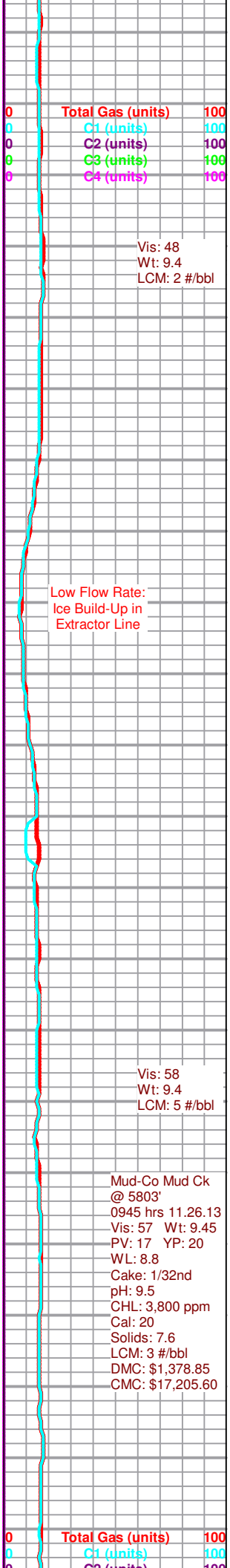
SIMPSON 5784' (-3090')

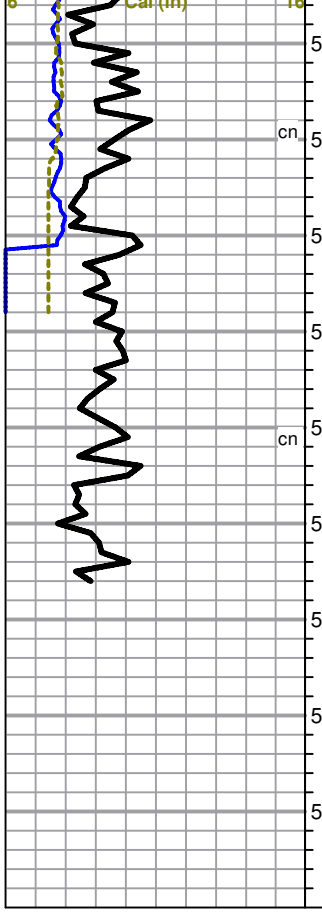
Shale: dk gray teal pale green, blocky and dense, some sandy/pyritic in part.

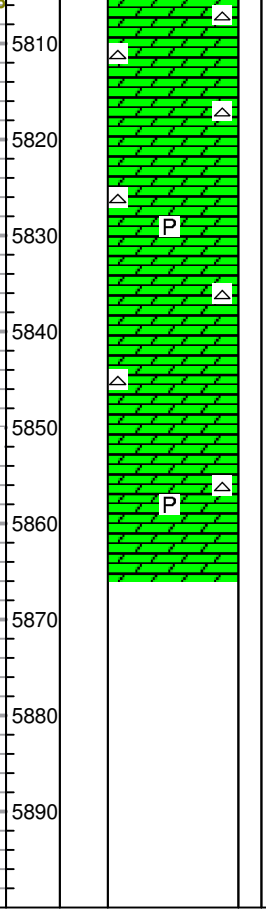
Sandstone: cream lt green, friable poorly cemented, fgrained, shaley/micaceous, good intergranular porosity, no shows, no fluorescence.

ARBUCKLE 5800' (-3106')

Dolomite: lt cream gray, dense tight matrix, microxln, poor xln development and porosity, no shows, even bright lt yellow mineral fluorescence, no cut, grading







to Dolomite: lt gray lt cream, sub-friable matrix in most, vf-fxln, most good rhombic development and associated porosity, no shows, even bright lt yellow mineral fluorescence, no cut, with scattered Chert: off white lt cream, opaque, fresh and sharp, oolitic in part, no odor.

Dolomite: lt cream lt gray, dense tight matrix, microxln, poor xln development and associated porosity, no shows, even bright lt yellow mineral fluorescence, no cut, with scattered Chert as above, no odor.

Dolomite: cream lt cream lt gray, dense matrix, vf-fxln, fair rhombic development throughout, some pyritic in part, overall poor-fair interxln porosity, no shows, even bright lt yellow fluorescence, no cut, with continued scattered Chert, no odor.

Dolomite: cream lt cream lt gray, dense matrix, vf-fxln, fair rhombic development throughout, some pyritic in part, overall poor-fair interxln porosity, no shows, even bright lt yellow fluorescence, no cut, with continued scattered Chert: bone white lt gray, opaque, fresh and sharp, barren, and fair amount of loose Chalk, no odor.

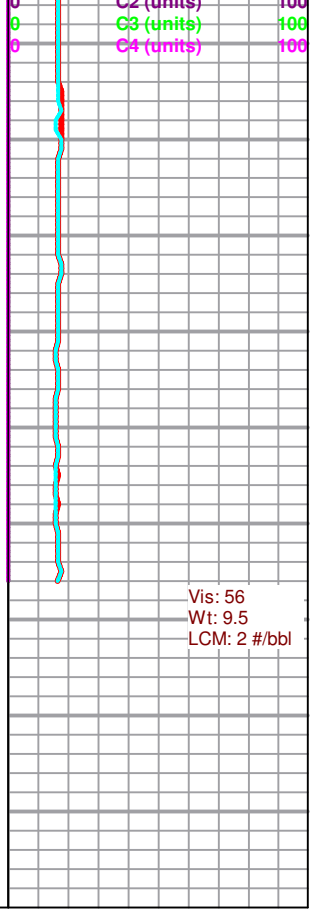
LTD 5866' (-3172')
RTD 5870' (-3176')

Orders Received to Run 5 1/2" Production Casing

Geologist Derek W. Patterson Off Location 0540 hrs 11.27.13

Respectfully Submitted,

Derek W. Patterson



DST #3.bmp

DRILL STEM TEST REPORT

Lasso Energy LLC

P.O. Box 465
1125 South Main
Chase Ks, 67524
ATTN: Derek Patterson

29/25s/29w/Gray

Renick #1

Job Ticket: 17099 **DST#: 3**

Test Start: 2013.11.23 @ 05:45:00

GENERAL INFORMATION:

Formation: **St. Louis Mississipp**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:35:30
Time Test Ended: 14:04:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3335/286/Great Bend

Interval: 4826.00 ft (KB) To 4852.00 ft (KB) (TVD)
Total Depth: 4852.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

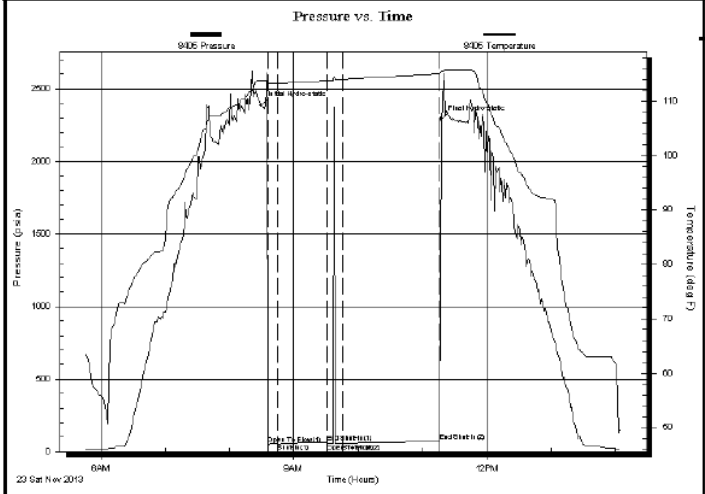
Reference Elevations: 2694.00 ft (KB)
2682.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8405 **Inside**

Press@RunDepth: 56.31 psia @ 4848.00 ft (KB)
Start Date: 2013.11.23 End Date: 2013.11.23
Start Time: 05:45:00 End Time: 14:04:30

Capacity: 5000.00 psia
Last Calib.: 2013.11.21
Time On Btm: 2013.11.23 @ 08:29:30
Time Off Btm: 2013.11.23 @ 11:17:30

TEST COMMENT: 1st Open/ 10 Minutes. Weak blow built to 1/2 inch in 5 gallon bucket.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 15 Minutes. No blow flushed tool after 5 minutes and gained flush bubbles then blow died.
2nd Shut In/ 90 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2386.01	113.77	Initial Hydro-static
6	53.27	113.29	Open To Flow (1)
15	54.22	113.31	Shut-In(1)
61	65.89	113.79	End Shut-In(1)
62	54.84	113.80	Open To Flow (2)
76	56.31	113.98	Shut-In(2)
167	67.30	114.98	End Shut-In(2)
168	2291.05	115.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud	0.28

Gas Rates

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