



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1173908
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1173908

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	Renick 1
Doc ID	1173908

All Electric Logs Run

Tucker: Compensated Neutron PEL Density Micro Log
Tucker: Phased Induction Shallow Focus SP Log
Tucker: Borehole Volume Caliper Log
LogTech of Kansas: Cement Bond Log

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	Renick 1
Doc ID	1173908

Tops

Name	Top	Datum
Heebner	3989	-1295
Toronto	4004	-1310
Lansing-Kansas City	4074	-1380
LKC 'B'	4109	-1415
LKC 'D'	4144	-1450
LKC 'F'	4174	-1480
LKC 'G'	4199	-1595
Muncie Creek	4244	-1550
LKC 'H'	4251	-1557
LKC 'I'	4276	-1582
LKC 'J'	4312	-1618
Stark	4373	-1679
LKC 'K'	4387	-1693
Hushpuckney	4417	-1723
LKC 'L'	4419	-1725
Base Kansas City	4504	-1810
Marmaton	4527	-1833
Pawnee	4605	-1911
Fort Scott	4631	-1937
Cherokee	4645	-1951
Ste. Genevieve	4773	-2079
St. Louis	4831	-2137
Spergen	5041	-2347
Warsaw	5262	-2568

Form	ACO1 - Well Completion
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Tops

Name	Top	Datum
Osage	5384	-2690
Kinderhook	5544	-2850
Viola	5694	-3000
Simpson	5784	-3090
Arbuckle	5800	-3106

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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	Osage Perforations	Shot 6 holes	5444'-5450'
	CIBP		5430'
1	Osage Perforations	Shot 24 holes	5384'-5408'
1	Osage Perforations	Shot 12 holes	5356'-5368'
	Acidize Osage	300 gal 15% NE Acid	5356'-5368' & 5384'-5408'
	CIBP		5330'
4	St. Louis Perforations	Shot 40 holes	4834'-4844'
	Acidize St. Louis	300 gal 15% NE Acid	4834'-4844'
	Acidize St. Louis w/perf balls	1700 gal 15% NE-FE Acid w/60 perf balls	4834'-4844'
4	Cherokee Sand Perforations	Shot 20 holes	4729'-4734'
4	Cherokee Sand Perforations	Shot 40 holes	4713'-4723'
	Acidize Cherokee Sand	300 gal 15% NE-FE Acid	4729'-4734' & 4713'-4723'
	Acidize Cherokee Sand	2000 gal 7.5% NE-FE Acid	4729'-4734' & 4713'-4723'



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: 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
 Tool Pusher: Rick Barringer
 Daylight Driller: Jason Barringer

Drilling Fluid: Mud-Co/Service Mud Inc.
 Engineers: Terry Ison
 Justin Whiting

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

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

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

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

- 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				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				
2694 KB				Oil - St. Louis 2685 KB				Oil - St. Louis 2686 KB				Oil - St. Louis 2685 KB				
Structural Relationship				Structural Relationship				Structural Relationship				Structural Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sample	Log	Sample	Log	Sample	Log	Sample	Log	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			Not Present			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	Not Penetrated				Not Penetrated				Not Penetrated			
Warsaw	5266	-2572	5262	-2568	Not Penetrated				Not Penetrated				Not Penetrated			
Osage	5390	-2696	5384	-2690	Not Penetrated				Not Penetrated				Not Penetrated			
Kinderhook	5549	-2855	5544	-2850	Not Penetrated				Not Penetrated				Not Penetrated			
Viola	5701	-3007	5694	-3000	Not Penetrated				Not Penetrated				Not Penetrated			
Simpson	5789	-3095	5784	-3090	Not Penetrated				Not Penetrated				Not Penetrated			
Arbuckle	5806	-3112	5800	-3106	Not Penetrated				Not Penetrated				Not Penetrated			
Total Depth	5870	-3176	5866	-3172	5054	-2369	-807	-803	4984	-2298	-878	-874	5000	-2315	-861	-857
NOTE: DST interval has been shifted 4' shallow/higher to correspond with the electric log curves.				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								

ROCK TYPES

Cht	DOL4	LMST4	SHALE GRN
Cht gy	LMST1	LMSTSDY	SHALE GRA
DOL1	LMST2	Ss	SHALE RED
DOL2	LMST3	SHALE CAR	SHALE TEAL

ACCESSORIES

MINERAL	FOSSIL	STRINGER	TEXTURE
▲ Chert, dark	F Fossils < 20%	■ Limestone1	C Chalky
↘ Dolomitic	○ Oolite	■ Shale Carb	L Lithoor

- ⌂ Glauconite
- P Pyrite
- Sandy
- ^ Siliceous
- Silty
- △ Chert White
- ▧ Euhed rhombs of dol or

- ⊕ Oomoldic
- × Sponge Spicules

- Shale Green
- Shale Gray
- Shale Teal

OTHER SYMBOLS

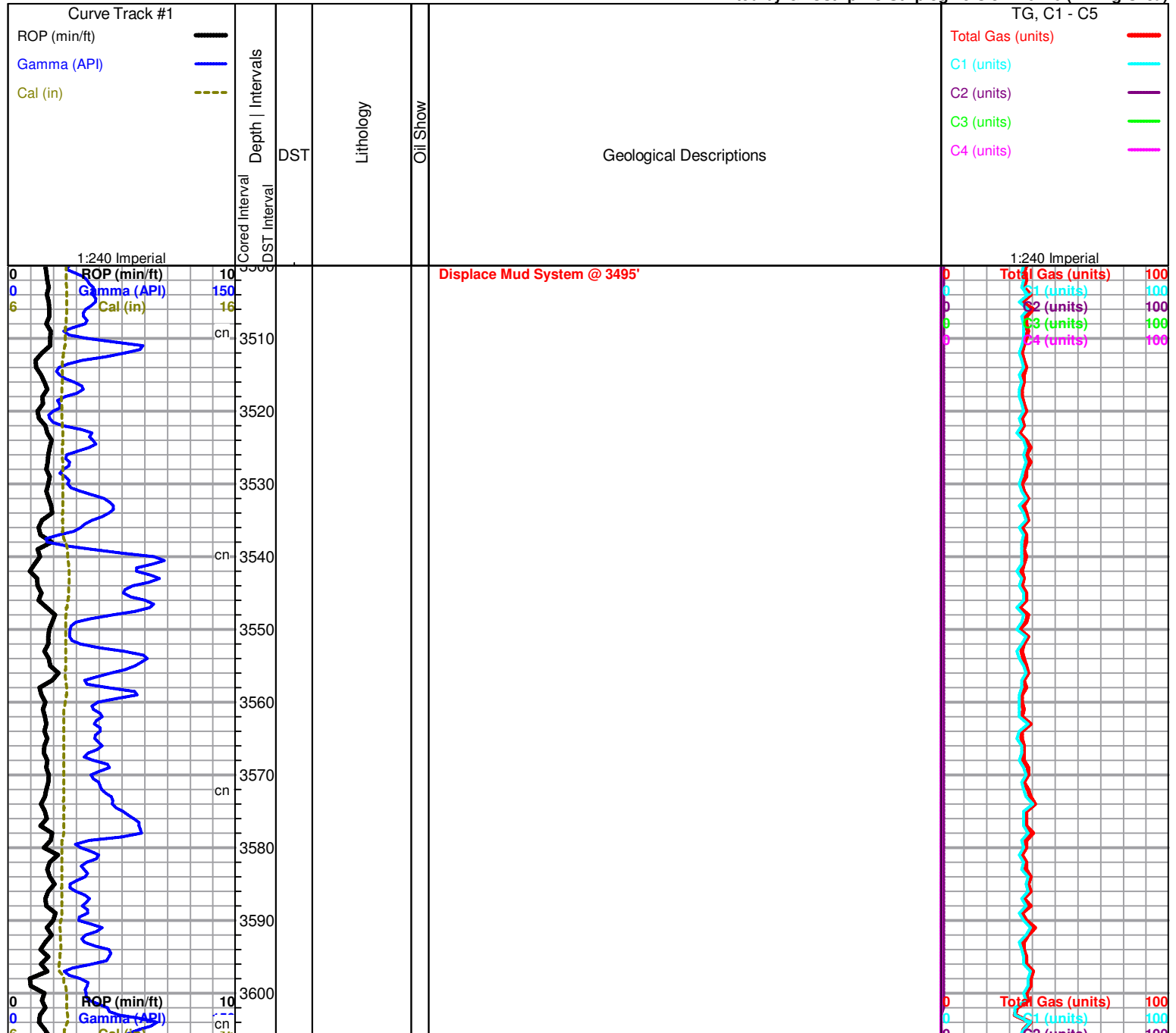
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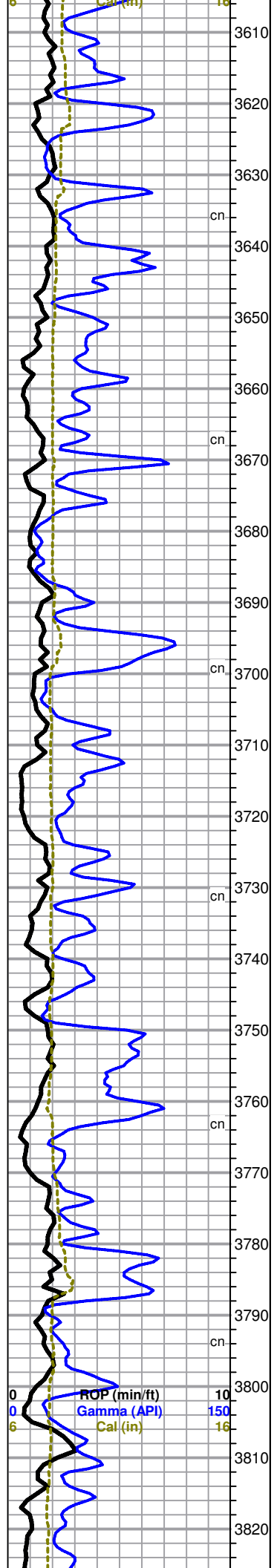
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- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

DST

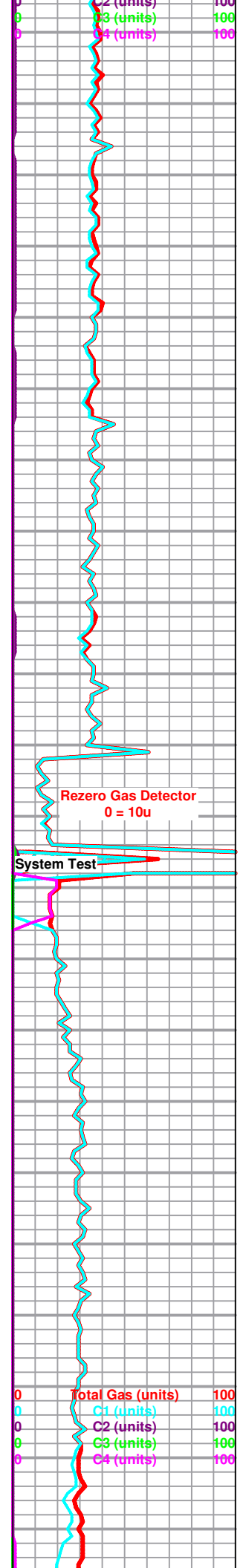
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- DST2
- DST3
- Core
- tail pipe

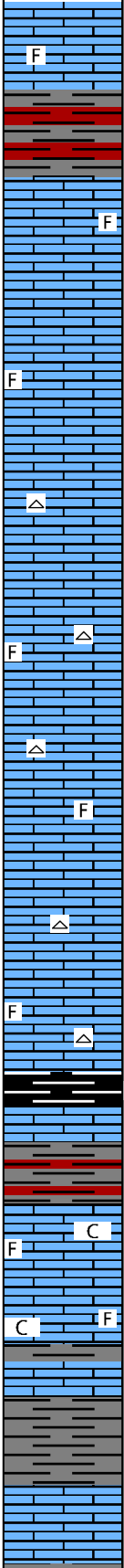
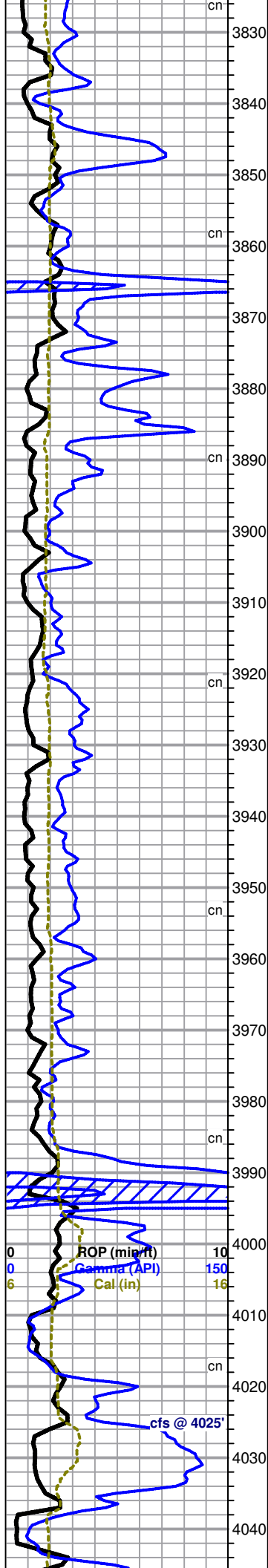
Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





Geologist Derek W. Patterson On Location 2220 hrs 11.19.13





Limestone: lt cream lt gray, dense tight matrix, microfxn, 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, microfxn, 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-vfxn, 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, microfxn, barren, poor-no visible porosity, no shows, no fluorescence.

Limestone: off white lt cream lt gray, dense matrix, micro-vfxn, 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-vfxn, 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.

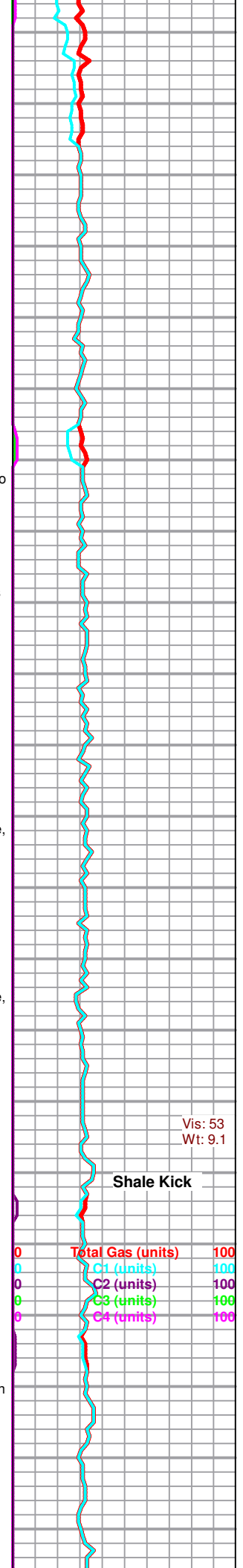
TORONTO 4004' (-1310')

4025' cfs 0"/20" - Limestone: cream lt cream off white, dense sub-chalky matrix, vf-fxn, 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-vfxn, 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.

Limestone: cream lt cream, mostly dense matrix, vf-fxn, slightly weathered



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, v-xln, 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.

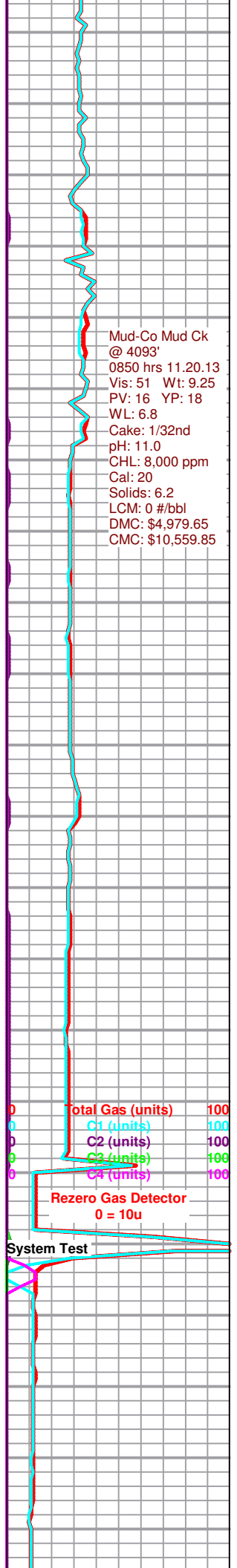
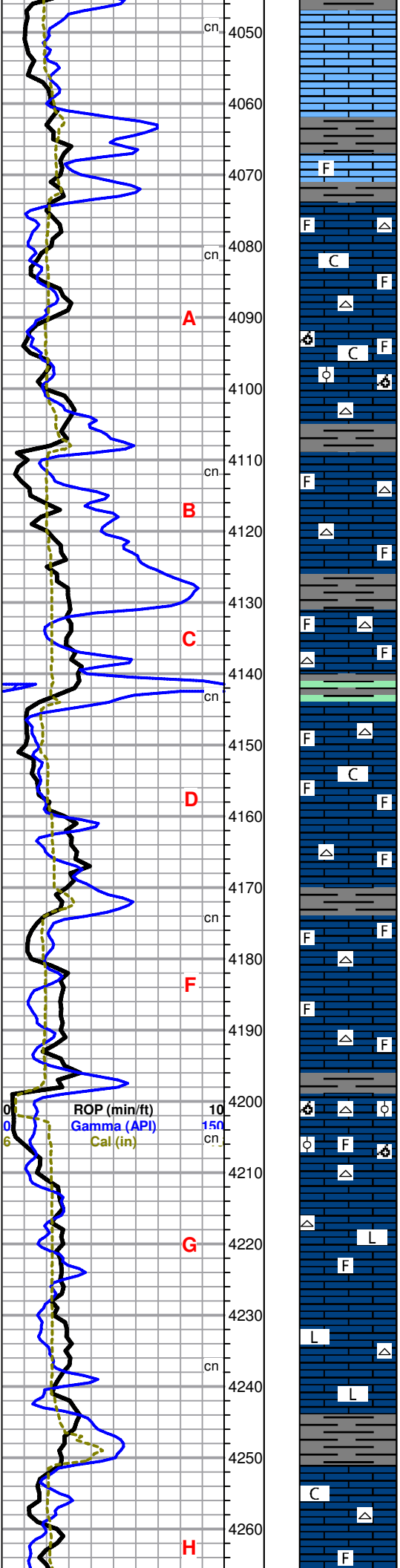
Limestone: off white lt gray lt cream, dense sub-chalky to sub-cherty matrix, micro-cryptoxln, scattered sub-fossiliferous to barren, trace poor vug development and associated porosity, no shows, even dull yellow-white mineral fluorescence, no cut, with fair amount of loose Chalk, and Chert: lt gray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

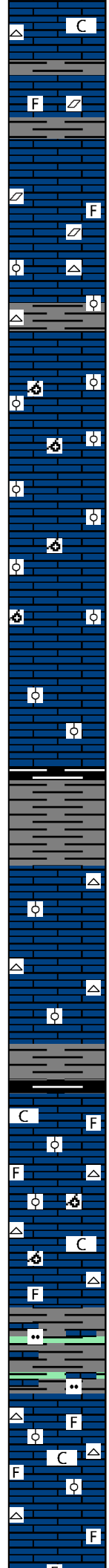
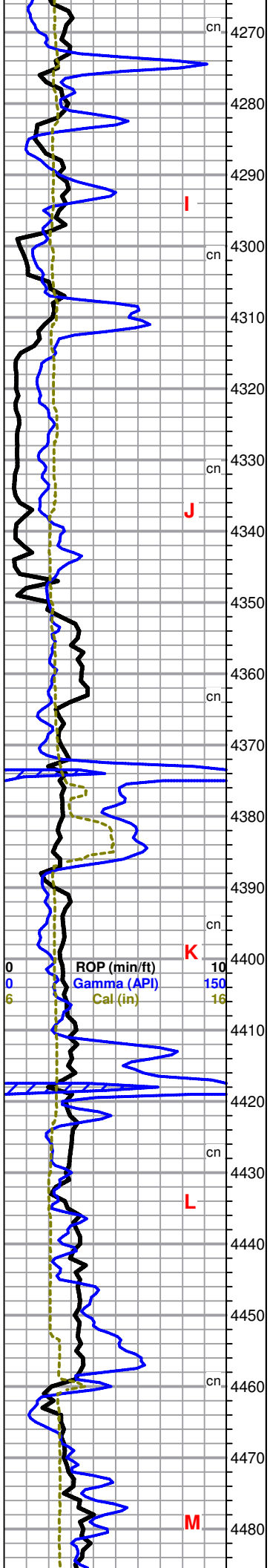
Mud-Co Mud Ck @ 4093'
0850 hrs 11.20.13
Vis: 51 Wt: 9.25
PV: 16 YP: 18
WL: 6.8
Cake: 1/32nd
pH: 11.0
CHL: 8,000 ppm
Cal: 20
Solids: 6.2
LCM: 0 #/bbl
DMC: \$4,979.65
CMC: \$10,559.85

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

Rezero Gas Detector
0 = 10u

System Test





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')

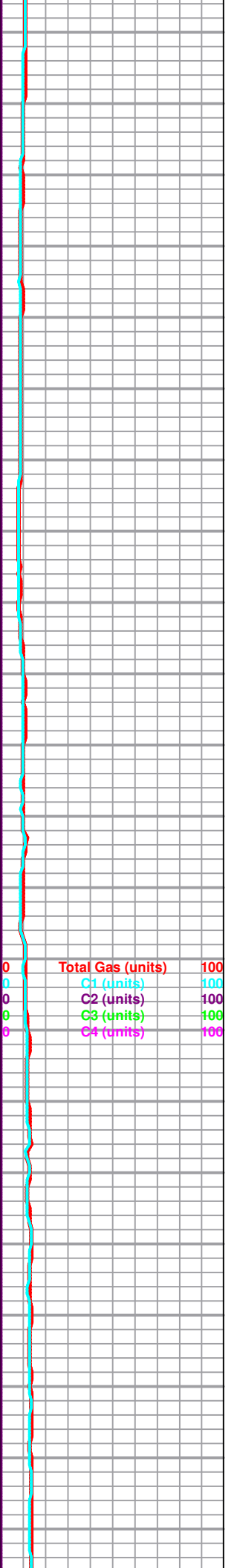
Shale: black dk gray, most carbonaceous, blocky and dense, no gas show.

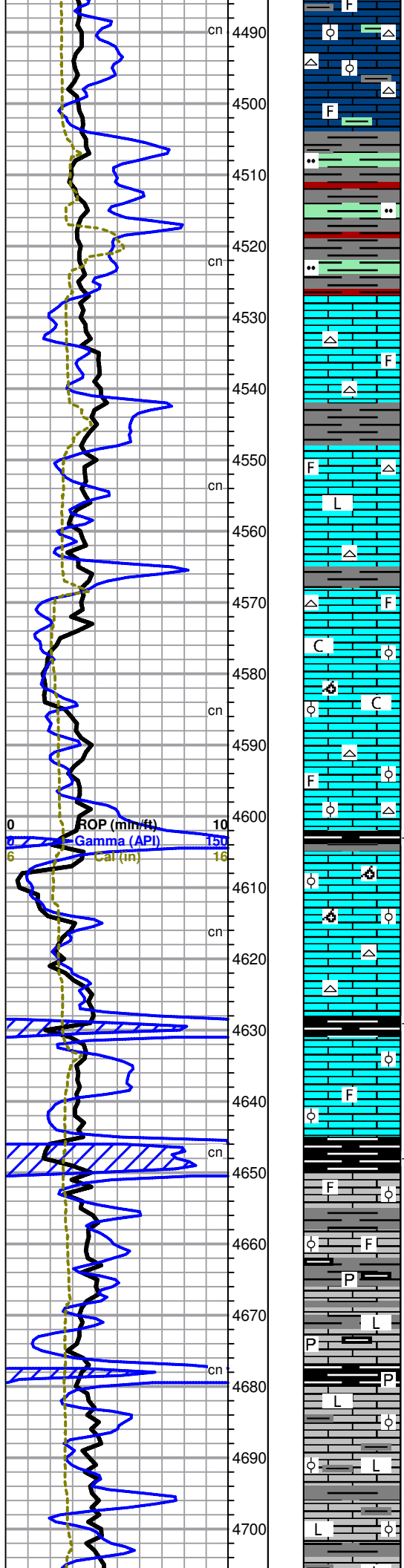
Limestone: cream lt cream, dense sub-chalky matrix, micro-vfxln, most fossiliferous-oolitic, occasional poor oomoldic/vug development and associated porosity, some fair interclast porosity, no shows, even dull lt yellow mineral fluorescence, no cut, with scattered Chert: lt gray cream tan, opaque-translucent,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

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

Vis: 50
Wt: 9.5+

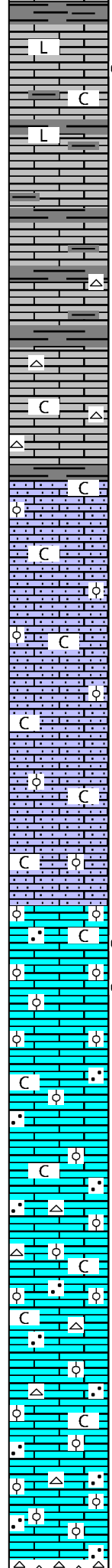
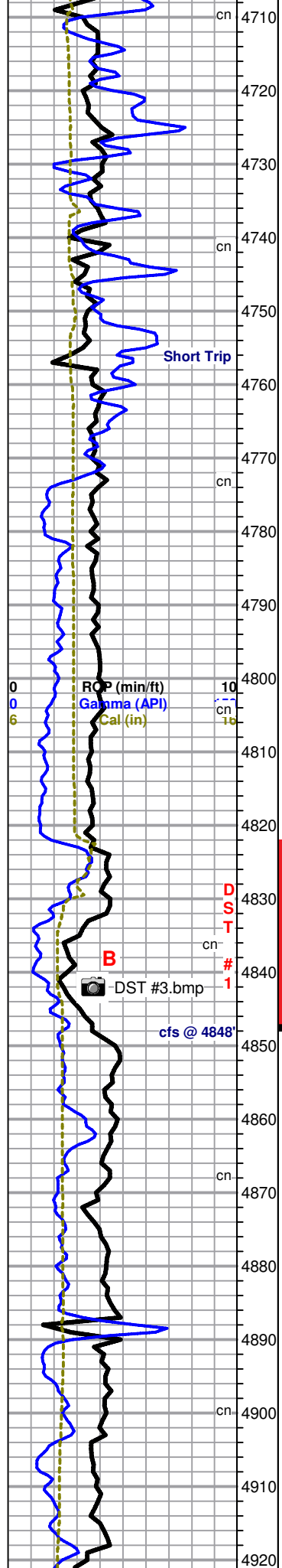
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Shale Kick

Shale Kick

Mud-Co Mud Ck @ 4687'
1250 hrs 11.21.13
Vis: 48 Wt: 9.35
PV: 15 YP: 16
WL: 8.4
Cake: 1/32nd
pH: 10.5
CHL: 3,900 ppm
Cal: 20
Solids: 6.9
LCM: 2 1/2 #/bbl
DMC: \$2,325.10
CMC: \$12,884.95

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.

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

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.

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.

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 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.

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.

18u Total

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

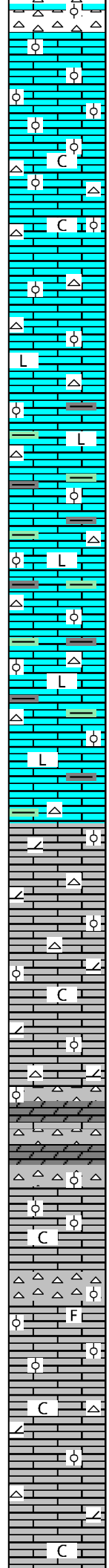
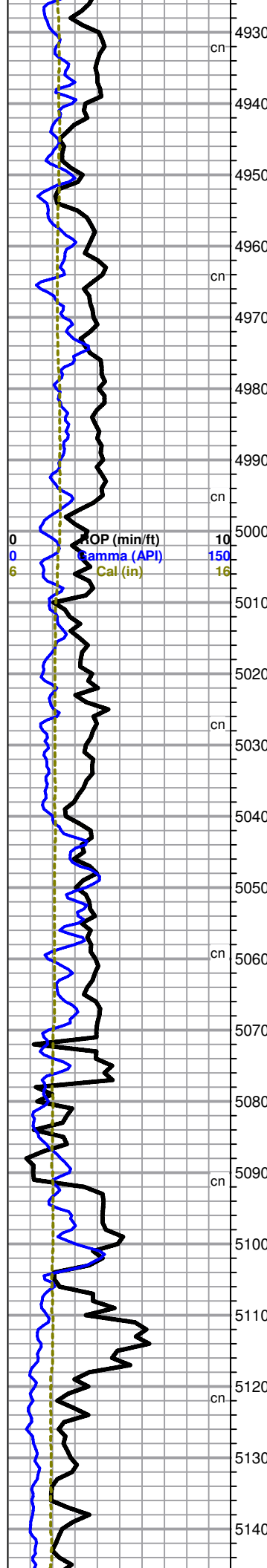
Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100

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

24u Total
~10u Increase

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

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

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

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

Limestone: cream tan It 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 It 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.

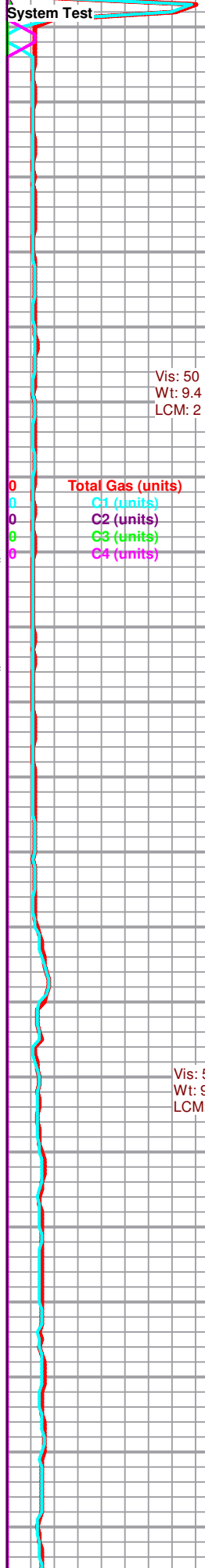
INFLUX - Chert: gray smokey gray some cream to tan, opaque-translucent, fresh and sharp, oolitic, no shows, with INLUX Dolomite: It cream, dense to sub-friable matrix, vf-fxln, sucrosic texture, fair interxln porosity, no shows, no fluorescence.

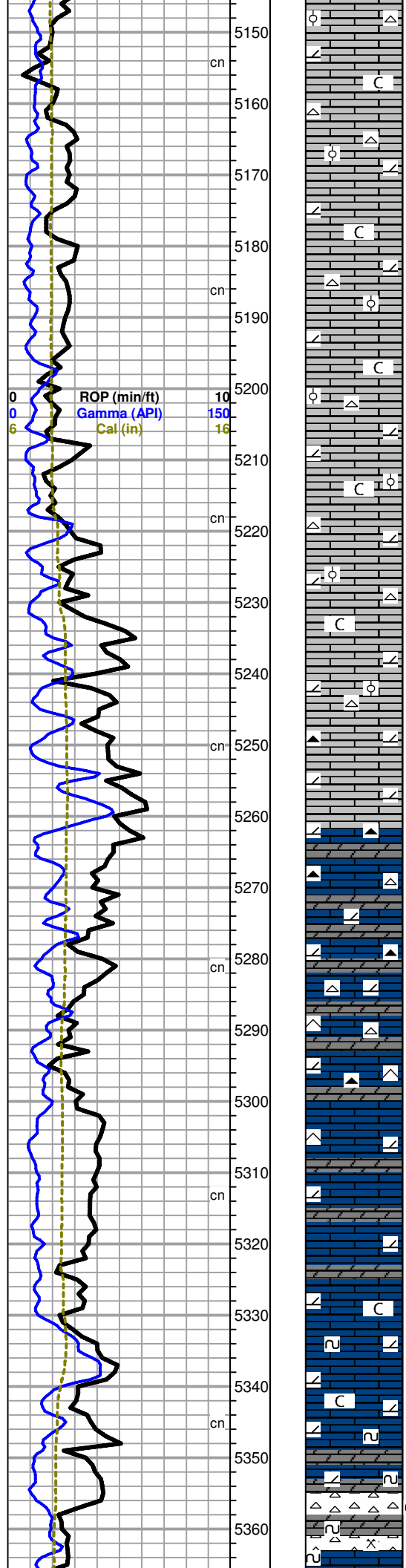
Limestone: cream It cream, dense tight to softer sub-chalky matrix, vfxln, scattered sub-oolitic to barren, poor visible porosity, no shows, no fluorescence, with some loose Chalk.

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

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

Limestone: cream It 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: It 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-fxl, 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-fxl, 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-fxl, 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-fxl, 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-fxl, 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-fxl, 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-fxl, 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-fxl, 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.

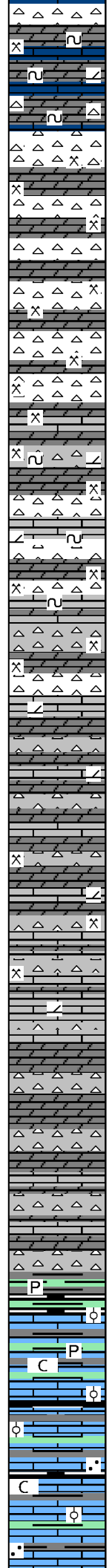
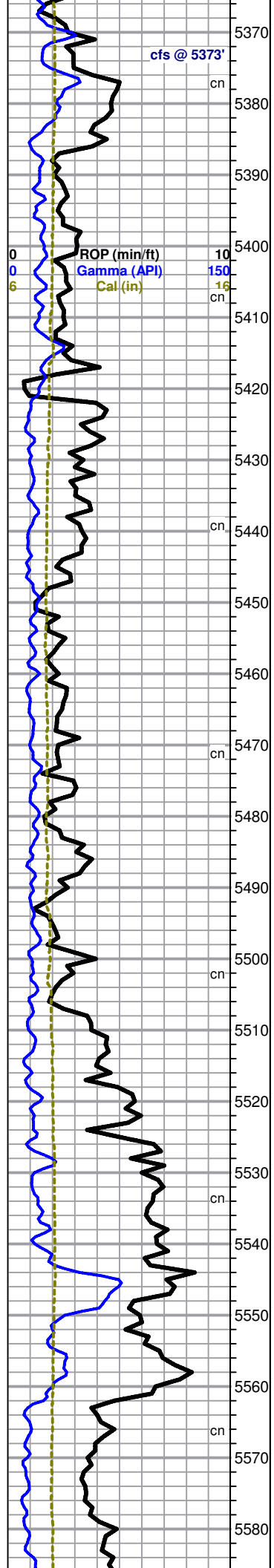
Dolomitic Limestone: lt gray off white lt cream mottled, dense dolomitic to softer sub-chalky matrix, vf-fxl, most barren, grainy, becoming glauconitic, overall poor-fair interxln porosity, no shows, no fluorescence, with fair amount of loose Chalk.

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')

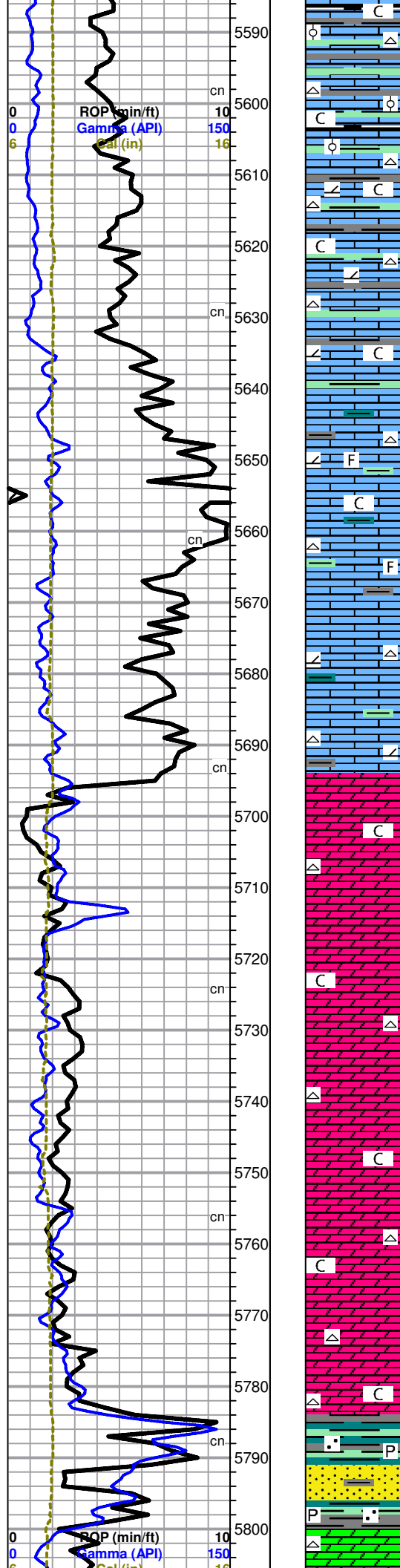
INFLUX - Shale: gray dk gray pale green some black carbonaceous, blocky and firm to softer and waxy, splintery-fissile material, some pyritic with Limestone: cream lt cream, dense dolomitic to chalky matrix, micro-cryptoxln, barren to sub-oolitic, poor-fair interoolitic to poor-no interxln porosity,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

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

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 slightly 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

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

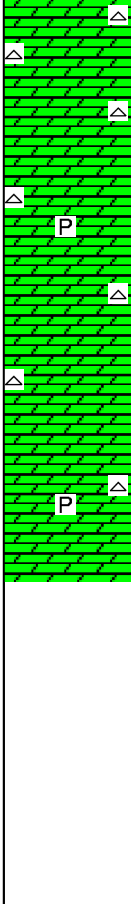
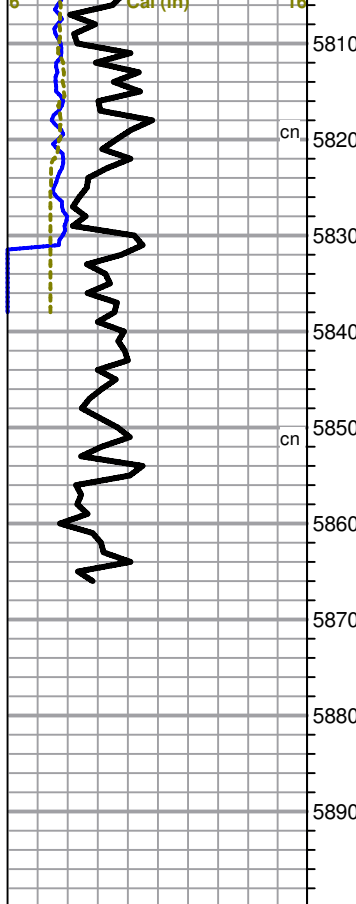
Vis: 48
Wt: 9.4
LCM: 2 #/bbl

Low Flow Rate:
Ice Build-Up in
Extractor Line

Vis: 58
Wt: 9.4
LCM: 5 #/bbl

Mud-Co Mud Ck
@ 5803'
0945 hrs 11.26.13
Vis: 57 Wt: 9.45
PV: 17 YP: 20
WL: 8.8
Cake: 1/32nd
pH: 9.5
CHL: 3,800 ppm
Cal: 20
Solids: 7.6
LCM: 3 #/bbl
DMC: \$1,378.85
CMC: \$17,205.60

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



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

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

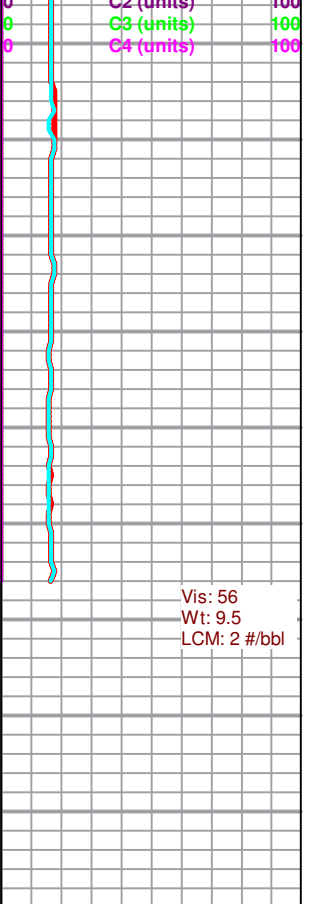
Dolomite: cream It cream It gray, dense matrix, vf-fxln, fair rhombic development throughout, some pyritic in part, overall poor-fair interxln porosity, no shows, even bright It yellow fluorescence, no cut, with continued scattered Chert, no odor.


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



	<h2 style="margin:0;">DRILL STEM TEST REPORT</h2>	
	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

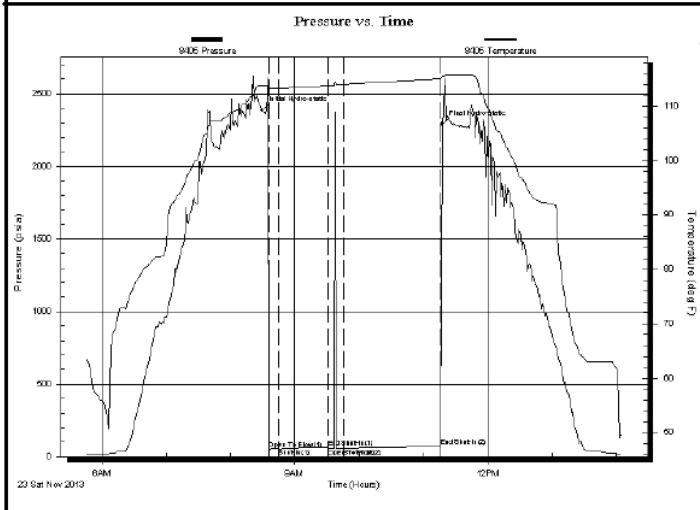
GENERAL INFORMATION:

Formation: St. Louis Mississipp	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Shane Konzem
Time Tool Opened: 08:35:30	Unit No: 3335/286/Great Bend
Time Test Ended: 14:04:30	Reference Elevations: 2694.00 ft (KB)
Interval: 4826.00 ft (KB) To 4852.00 ft (KB) (TVD)	2682.00 ft (CF)
Total Depth: 4852.00 ft (KB) (TVD)	KB to GR/CF: 12.00 ft
Hole Diameter: 7.88 inches -hole Condition: Poor	

Serial #: 8405 Inside

Press@RunDepth: 56.31 psia @ 4848.00 ft (KB)	Capacity: 5000.00 psia
Start Date: 2013.11.23 End Date: 2013.11.23	Last Calib.: 2013.11.21
Start Time: 05:45:00 End Time: 14:04:30	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 (M cf/d)

Customer <i>LASSO Energy</i>	Lease No. <i>Renicks</i>	Date <i>11-16-13</i>
Lease <i>Renicks</i>	Well # <i>1</i>	Service Receipt <i>1717-04360</i>
Casing <i>8 5/8"</i>	Depth <i>1670'</i>	County <i>GRAY</i> State <i>KS</i>
Job Type <i>Z-42- SURFACE</i>	Formation	Legal Description <i>29-25-29</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>8 5/8"</i>	Tubing Size	Shots/Ft		Lead <i>455 sks</i> <i>'A-Con' Blend 3% CACL₂</i> <i>1/4" Polyflake</i> <i>- 2% WCA-1</i> <i>11.4 ppq - 2.95 cuft. sk</i>
Depth <i>1670'</i>	Depth	From	To	
Volume <i>106.9 BBLs</i>	Volume	From	To	Tail in <i>150 sks</i> <i>Premium Plus Cement</i> <i>2% CACL₂</i> <i>1/4" Polyflake 14.8 ppq</i> <i>1.34 cuft. sk</i>
Max Press <i>1500 psi</i>	Max Press	From	To	
Well Connection	Annulus Vol. <i>122 BBLs</i>	From	To	
Plug Depth <i>1628</i>	Packer Depth	From	To	

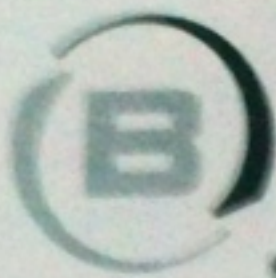
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0300</i>					<i>Called Out</i>
<i>0600</i>					<i>ON LOCATION</i>
<i>0610</i>					<i>Safety Meeting</i>
<i>0620</i>					<i>Set up</i>
<i>1500</i>					<i>Install plug contains a manifold Dropball</i>
<i>1520</i>	<i>200</i>				<i>Circle with Rig pumps</i>
<i>1630</i>					<i>Safety Meeting with all personnel - Rig Crew</i>
<i>1640</i>	<i>1500 Lines</i>		<i>2 BBLs.</i>		<i>Pump 2 BBLs water Test Lines to Rig Floor</i>
					<i>1500 psi - Good test - Lines OK</i>
<i>1655</i>	<i>200</i>			<i>5</i>	<i>Start mixing Lead cement at 11.4 ppq</i>
					<i>2.95 cuft. sk - 18.19 gal/sk mw</i>
			<i>239 BBLs</i>	<i>5</i>	<i>196 BBLs water requirement - 239 BBLs slurry</i>
<i>1738</i>	<i>200</i>				<i>Start mixing Tail cement at 14.8 ppq</i>
					<i>1.34 cuft. sk - 6.33 gal/sk mw</i>
			<i>35.8 BBLs</i>	<i>5</i>	<i>23 BBLs water requirement - 35.8 BBLs slurry</i>
<i>1745</i>					<i>Finished mixing cement shut down</i>
					<i>Drop top plug</i>
<i>1750</i>	<i>300</i>		<i>104.2 BBLs</i>	<i>5</i>	<i>Start Displacement 1670' - 42 x .0640 BBL ft.</i>
<i>1815</i>	<i>1000</i>				<i>Land Plug 500 psi over pump pressure 800 psi ±</i>
<i>1820</i>					<i>Released 60 BBLs cement to pit</i>
<i>1824</i>					<i>Float Held</i>
					<i>Minimum Water requirements 360 BBLs</i>
					<i>BASIC Thanks you for Your Business</i>

Service Units	<i>21755</i>	<i>27463</i>	<i>38117-37547</i>	<i>19827-19883</i>
Driver Names	<i>Rogen</i>	<i>Mike</i>	<i>CESAR</i>	<i>Tim</i>

[Signature]
Customer Representative

Station Manager

[Signature]
Cementer



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 04360 A

DATE _____ TICKET NO. _____

DATE OF JOB 11-16-13 DISTRICT 1717		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Lasso Energy		LEASE Rewick WELL NO. 1							
ADDRESS		COUNTY GRAY STATE KS							
CITY STATE		SERVICE CREW Roger - Mike - Tim - Chris							
AUTHORIZED BY		JOB TYPE: Z42 8 5/8" Surface							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
21755	6						11-16-13	PM	0700
27463	6					ARRIVED AT JOB	11-16-13	AM	0600
35117-37547	6					START OPERATION		AM	1700
19827-19883	6					FINISH OPERATION		AM	1820
						RELEASED		AM	1840
						MILES FROM STATION TO WELL			85

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Richard P. Barry
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL101	'A-Cow' Blend	SK	455		
CL110	Premium Plus Cement	SK	150		
CC109	Calcium Chloride	LB	282		
CC102	Celloflake	LB	38		
CF1453	Flapper Type Insect Float Valve 8 5/8"	EA	1		
CF353	Guide Shoe, Texas Pattern, 8 5/8" (Blue)	EA	1		
CF-4556	Cement Baskets, Canvas 8 5/8"	EA	1		
CF-4405	Ecowinizer Hinged, Welded Standard Centaliga	EA	3		
CF-105	Top Rubber Cement Plug, 8 5/8"	EA	1		
E101	Heavy Equipment Mileage 3 units	MI	255		
CE-240	Blending & Mixing Service Charge	SK	605		
E-113	Proppant and Bulk Delivery Charges, per Ton Mile	TM	2418		
CE-202	Depth Charge 1001'-2000'	Hrs	4		
CE-504	Plug Container Utilization Charge	Job	1		
E-100	Unit Mileage Charge - Pickup	MI	85		
S-003	Service Supervisor, First 8 Hrs on Location	EA	1		
T-105	Cement Data Acquisition Monitor	EA	1		
CE-403	Additional Hrs. After First 6 Hrs	Hrs	6		
				SUB TOTAL	17260 90

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

TOTAL

SERVICE REPRESENTATIVE [Signature]

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 04711 A

DATE _____ TICKET NO. _____

DATE OF JOB 11-27-13 DISTRICT 1717		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Lasso Energy		LEASE Remick #1 WELL NO.							
ADDRESS		COUNTY Gray STATE KS							
CITY STATE		SERVICE CREW J. Chavez, Sam, Gabe							
AUTHORIZED BY Jerry Beth		JOB TYPE: 242 5 1/2 Log String							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
							11-27-13		-1200
78938	8	70897	8	30463	8	ARRIVED AT JOB	11-27-13	AM	-330
		19570	1	37725	1	START OPERATION	11-27-13	AM	-1155
						FINISH OPERATION	11-27-13	AM	-115
						RELEASED	11-28-13	AM	2:30
						MILES FROM STATION TO WELL			85

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL105	AA2 Cement	✓ SK	395		7189 00
CC113	Gypsum	✓ 16	1860		1395 00
CC111	Salt	✓ 16	2190		1095 00
CC103	C-15	✓ 13	224		2800 00
CC105	C-410	✓ 16	93		372 00
CC201	Gilsonite	✓ 13	1975		1323 25
CF1451	Insert Flood Valve	✓ EA	1		215 00
CF351	Guide Shoe Texas	EA	1		200 00
CF4452	Centralizer 3/2	✓ EA	20		1500 00
CF103	Rubber Plug	✓ EA	1		105 00
CF4552	Cement Basket	✓ EA	1		955 00
CC155	Super Flush	✓ gal	500		765 00
CE501	Casing Swivel Hatch	EA	1		200 00
E101	Heavy Equipment Mileage	m	170		1190 00
CE240	Blocky & Man Change	SR	395		553 00
E113	Bullic Delivery Change	tm	1581		2529 60
CE200	Depth Change	4 hrs	1		2880 00
CE504	Plug Containe Change	jobs	1		250 00
E100	Pit Key Mileage				361 25
SUB TOTAL					16258 11

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



Cement Report

Customer <i>Lasso Energy</i>		Lease No.		Date <i>11-27-13</i>		
Lease <i>Remick</i>		Well # <i>1</i>		Service Receipt <i>4711</i>		
Casing <i>5 1/2</i>	Depth <i>5804</i>	County <i>Gray</i>		State <i>KS</i>		
Job Type <i>2 1/2 Log Sky</i>		Formation		Legal Description <i>29-25-29</i>		
Pipe Data			Perforating Data		Cement Data	
Casing size <i>5 1/2 17 #</i>	Tubing Size		Shots/Ft		Lead	
Depth <i>5811</i>	Depth <i>55 30'</i>		From	To		
Volume <i>135615</i>	Volume		From	To	Tail in <i>3955K AA2</i> <i>1.51 FT 3-SK</i> <i>6.6461-SK 14.8 #</i>	
Max Press <i>2000</i>	Max Press		From	To		
Well Connection <i>5 1/2</i>	Annulus Vol.		From	To		
Plug Depth <i>5781</i>	Packer Depth		From	To		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log	
<i>1500</i>					<i>Arrive On Location</i>	
<i>1700</i>					<i>Safety Meeting - Rig Up</i>	
<i>1800</i>					<i>Rig Runn Comm</i>	
<i>1005 AM</i>					<i>Circulate w/ Rig</i>	
<i>1205</i>					<i>Hook Up to BES</i>	
<i>1210</i>	<i>2000</i>		<i>1.0</i>	<i>1.0</i>	<i>Pressure Test</i>	
<i>1215</i>	<i>400</i>		<i>5</i>	<i>5.5</i>	<i>Pump Water Spacer</i>	
<i>1220</i>	<i>390</i>		<i>12</i>	<i>5.5</i>	<i>Pump Super Flush</i>	
<i>1225</i>	<i>375</i>		<i>5</i>	<i>5.5</i>	<i>Pump Water Spacer</i>	
<i>1230</i>	<i>350</i>		<i>93</i>	<i>5.5</i>	<i>Rig cut @ 14.8 #</i>	
<i>1245</i>					<i>Drop Plug Washup</i>	
<i>1250</i>	<i>400</i>		<i>125</i>	<i>6.0</i>	<i>Displace</i>	
<i>110</i>	<i>1100</i>		<i>10</i>	<i>2.0</i>	<i>Slow Down</i>	
<i>115</i>	<i>1600</i>		<i>11</i>	<i>11</i>	<i>Land Plug - Float Held</i>	
					<i>Plug Rat + Mouse Hole</i>	
Service Units <i>78438</i>		<i>70897-19570</i>	<i>30463-37725</i>			
Driver Names <i>Izzy</i>		<i>Sam</i>	<i>Gabe</i>			

Nick

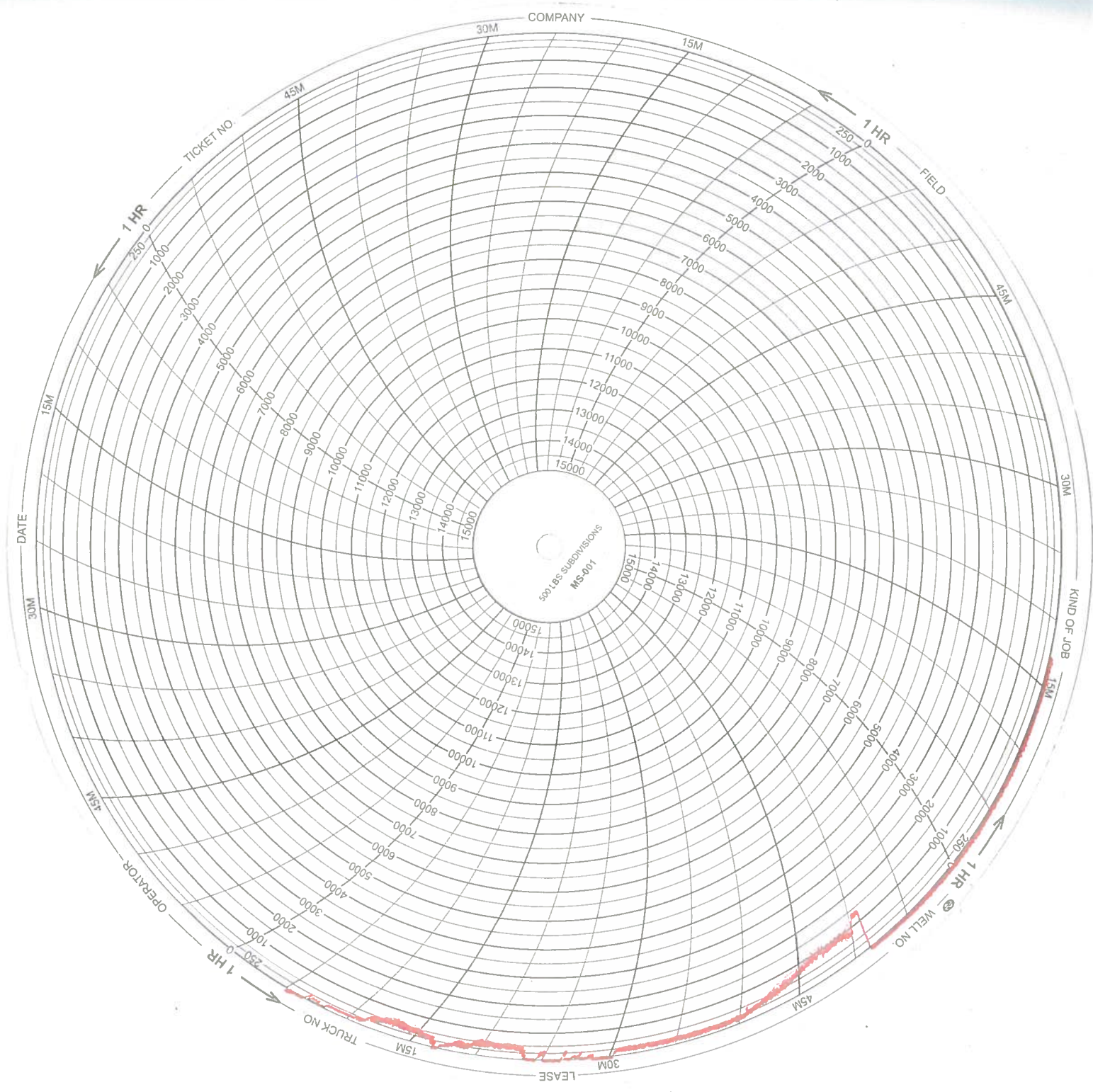
Customer Representative

Serg Beth

Station Manager

Izzy Chava

Cementer



100-SM
MS-00
SINCE SUBDIVISIONS 39.1 1945

DATE

TICKET NO.

COMPANY

FIELD

30M

KIND OF JOB

OPERATOR

WELL NO.

LEASE

TRUCK NO.