



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1150922  
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: \_\_\_\_\_



1150922

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](mailto: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:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	McClaren B 1
Doc ID	1150922

All Electric Logs Run

Tucker - Borehole Volume Caliper Log
Tucker - Micro Log
Tucker - Phased Induction Shallow Focus SP Log
Tucker - Compensated Neutron PEL Density Log
Tucker - Cement Bond Log

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	McClaren B 1
Doc ID	1150922

Tops

Name	Top	Datum
Heebner	4147	-1899
Toronto	4160	-1912
Douglas	4178	-1930
Brown Lime	4327	-2079
Lansing-Kansas City	4341	-2093
LKC 'B'	4364	-2116
LKC 'D'	4401	-2153
LKC 'G'	4472	-2224
Muncie Creek	4512	-2264
LKC 'H'	4518	-2270
LKC 'I'	4539	-2291
LKC 'J'	4565	-2317
Stark	4609	-2361
LKC 'K'	4620	-2372
Hushpuckney	4660	-2412
LKC 'L'	4664	-2416
Base Kansas City	4708	-2460
Marmaton	4766	-2518
Cherokee	4884	-2636
Mississippian Chert	4954	-2706
Mississippian Lime	5005	-2757
Kinderhook	5196	-2948
Viola	5218	-2970
Simpson	5415	-3167

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	McClaren B 1
Doc ID	1150922

Tops

Name	Top	Datum
Simpson Sand (Lower) not covered by log	5546	-3298
Arbuckle not covered by log	5560	-3312

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	McClaren B 1
Doc ID	1150922

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	Perforations(upper section of Miss Lime)	Shot	5031-5047
1	Perforations (upper section of Miss Lime)	Shot	5051-5059
1	Perforations (upper section of Miss Lime)	Shot	5062-5067
1	Perforations (upper section of Miss Lime)	Shot	5073-5075
1	Perforations (lower section of Miss Lime)	Shot	5087-5099
1	Perforations (lower section of Miss Lime)	Shot	5105
1	Perforations (lower section of Miss Lime)	Shot	5113
1	Perforations (lower section of Miss Lime)	Shot	5125-5129
1	Perforations (lower section of Miss Lime)	Shot	5130-5135
1	Perforations (lower section of Miss Lime)	Shot	5140-5148
1	Perforations (lower section of Miss Lime)	Shot	5151-5158
1	Perforations (lower section of Miss Lime)	Shot	5167-5171
	See attachment for acid and frac information		



Scale 1:240 Imperial

Well Name: McClaren 'B' #1  
Surface Location: 330' FNL and 330' FEL  
Bottom Location:  
API: 15-097-21759-0000  
License Number: 34320  
Spud Date: 6/29/2013 Time: 11:30 PM  
Region: Sec. 6 - T30S - R18W, Kiowa County  
Drilling Completed: 7/8/2013 Time: 3:05 AM  
Surface Coordinates:  
Bottom Hole Coordinates:  
Ground Elevation: 2235.00ft  
K.B. Elevation: 2248.00ft  
Logged Interval: 4100.00ft To: 5570.00ft  
Total Depth: 5570.00ft  
Formation: Mississippian  
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: McClaren 'B' #1  
Location: 330' FNL and 330' FEL API: 15-097-21759-0000  
Pool: Nichols  
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 report and electric logs for the McClaren 'B' #1, it was decided upon by operator to run 5 1/2" production casing for further evaluation of said well.

The drill time, lithology, and gas curves have been shifted 7' shallow/higher to correspond with the electric log curves. All circulation points, trip points, and connections 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: Ninescah Drilling  
Tool Pusher: Rick Barringer  
Daylight Driller: Jason Barringer  
Evening Driller: Juan Navarro  
Morning Driller: Ronald Guerrero

Drilling Fluid: Mud-Co/Service Mud Inc.  
Engineers: Justin Whiting  
Brad Bortz

Logging Company: Tucker Wireline

Gas Detector: Bluestem Environmental  
 Engineer: Sidney Edelbrock  
 Unit: 0574  
 Operational By: 2450'

Engineer: Z. Hickman  
 Logs Ran: DI, CDNL, Micro, Sonic

Testing Company: No DSTs

Deviation Survey	
Depth	Survey
485'	1°
4714'	3/4°
RTD - 5570'	1 1/2°

Pipe Strap	
Depth	Pipe Strap
4714'	1' Short to Board

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4"	SM	Mill Tooth	RR	0'	485'	485'	5.75
2	7 7/8"	Varel	HE21	1356649	485'	4714'	4229'	93.00
3	7 7/8"	Varel	HE29	1326888	4714'	5570'	856'	45.25

Surface Casing	
6.30.2013	Ran 11 joints of new 23 #/ft 8 5/8" casing, tallying 468', set @ 485' KB. Cemented with 150 sacks A Service Lite (6% gel, 3% CC, 1/4 lb CF) and 150 sacks Common (2% CC 1/4 lb CF). Cement did circulate. Plug down @ 1900 hrs 6.30.13. By Basic Energy Services.

Production Casing	
7.9.2013	Ran 132 joints of new 15.5 #/ft 5 1/2" production casing, tallying 5542.16', set @ 5542.16' KB. Cemented with 275 sacks AA2. Cement did circulate. Plug down @ 0900 hrs 7.9.13. By Basic Energy Services.

### DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
7.5.2013	4479'	Drilling and connections Topeka, Heebner, Toronto, and into Douglas. Geologist Derek W. Patterson on location 1845 hrs 7.4.13. Drilling and connections Douglas, Brown Lime, and into Lansing/KC. CFS @ 4370' (LKC 'A'). Resume drilling and connections Lansing/KC. Made 543' over past 24 hrs of operations. WOB: 36-38k RPM: 90 PP: 1000 SPM: 60 DMC: \$9,725.60 CMC: \$11,044.35
7.6.2013	4817'	Drilling and connections Lansing/KC. Stop @ 4714' for bit trip. CTCH, drop survey, strap out for bit trip 1845 hrs 7.5.13. TIH with new bit. Resume drilling following bit trip 0010 hrs 7.6.13. Drilling and connections Lansing/KC, Base Kansas City, and into Marmaton. Made 338' over past 24 hrs of operations. WOB: 36-38k RPM: 70-80 PP: 1100 SPM: 60 DMC: \$184.50 CMC: \$11,228.85
7.7.2013	5222'	Drilling and connections Marmaton, Pawnee, Fort Scott, Cherokee, and into Mississippian. Drilling and connections Mississippian and into Kinderhook. Made 405' over past 24 hrs of operations. WOB: 36-38k RPM: 70-75 PP: 1100 SPM: 60 DMC: \$1,427.80 CMC: \$12,656.65
7.8.2013	RTD - 5570' LTD - 5566'	Drilling and connections Kinderhook, Viola, Simpson, and into Arbuckle ahead to RTD of 5570'. RTD reached 0305 hrs 7.8.13. CTCH, conduct short trip, CTCH. Made 348' over past 24 hrs of operations. WOB: 36-38k RPM: 70-75 PP: 1100 SPM: 60 DMC: \$2,991.70 CMC: \$15,648.35
7.9.2013	RTD - 5570' LTD - 5566'	CTCH, drop survey, TOH for open hole logging operations 0735 hrs 7.8.13. Rig up loggers. Conduct logging operations. Orders received to run 5 1/2" production casing for further evaluation of the McClaren 'B' #1. Geologist Derek W. Patterson released 1800 hrs 7.8.13. DMC: \$2,420.55 CMC: \$18,068.90

### WELL COMPARISON SHEET

Formation	Drilling Well				Comparison Well				Comparison Well				Comparison Well			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	4154	-1906	4147	-1899	4154	-1913	7	14	4133	-1915	9	16	4126	-1904	-2	5



Toronto	4167	-1919	4160	-1912	4176	-1935	16	15	23	4177	-1929	10	17	4178	-1919	0	7
Douglas	4182	-1934	4178	-1930	4186	-1945	11	15	15	4164	-1946	12	16	4157	-1935	1	5
Brown Lime	4334	-2086	4327	-2079	4336	-2095	9	16	16	4314	-2096	10	17	4307	-2085	-1	6
Lansing-Kansas City	4350	-2102	4341	-2093	4356	-2115	13	22	22	4330	-2112	10	19	4324	-2102	0	9
LKC 'B'	4370	-2122	4364	-2116	4374	-2133	11	17	17	4350	-2132	10	16	4343	-2121	-1	5
LKC 'D'	4410	-2162	4401	-2153	4409	-2168	6	15	15	4388	-2170	8	17	4380	-2158	-4	5
LKC 'G'	4480	-2232	4472	-2224	4480	-2239	7	15	15	4458	-2240	8	16	4451	-2229	-3	5
Muncie Creek	4516	-2268	4512	-2264	4519	-2278	10	14	14	4496	-2278	10	14	4488	-2266	-2	2
LKC 'H'	4524	-2276	4518	-2270	4525	-2284	8	14	14	4504	-2286	10	16	4496	-2274	-2	4
LKC 'I'	4549	-2301	4539	-2291	4553	-2312	11	21	21	4528	-2310	9	19	4520	-2298	-3	7
LKC 'J'	4571	-2323	4565	-2317	4574	-2333	10	16	16	4550	-2332	9	15	4546	-2324	1	7
Stark	4617	-2369	4609	-2361	4619	-2378	9	17	17	4595	-2377	8	16	4589	-2367	-2	6
LKC 'K'	4630	-2382	4620	-2372	4630	-2389	7	17	17	4608	-2390	8	18	4599	-2377	-5	5
Hushpuckney	4669	-2421	4660	-2412	4668	-2427	6	15	15	4648	-2430	9	18	4642	-2420	-1	8
LKC 'L'	4671	-2423	4664	-2416	4675	-2434	11	18	18	4652	-2434	11	18	4647	-2425	2	9
Base Kansas City	4718	-2470	4708	-2460	4721	-2480	10	20	20	4705	-2487	17	27	4692	-2470	0	10
Marmaton	4773	-2525	4766	-2518	4781	-2540	15	22	22	4760	-2542	17	24	4744	-2522	-3	4
Cherokee	4892	-2644	4884	-2636	4896	-2655	11	19	19	4879	-2661	17	25	4864	-2642	-2	6
Mississippian Chert	4961	-2713	4954	-2706	4964	-2723	10	17	17	4942	-2724	11	18	4927	-2705	-8	-1
Mississippian Lime	5012	-2764	5005	-2757	Not Called/Penetrated				Not Called/Penetrated				Not Called/Penetrated				
Kinderhook	5200	-2952	5196	-2948	Not Penetrated				Not Penetrated				Not Penetrated				
Viola	5226	-2978	5218	-2970	Not Penetrated				Not Penetrated				Not Penetrated				
Simpson	5421	-3173	5415	-3167	Not Penetrated				Not Penetrated				Not Penetrated				
Simpson Sand (Upper)	Not Present				Not Penetrated				Not Penetrated				Not Penetrated				
Simpson Sand (Lower)	5546	-3298	Not Covered By Logs		Not Penetrated				Not Penetrated				Not Penetrated				
Arbuckle	5560	-3312	Logs		Not Penetrated				Not Penetrated				Not Penetrated				
Total Depth	5570	-3322	5566	-3318	5065	-2824	-498	-494	5055	-2837	-485	-481	5025	-2803	-519	-515	

### ROCK TYPES

Cht	DOL4	LMST4	SHALE CAR	SHALE TEAL
DOL1	LMST1	Ss	SHALE GRN	
DOL2	LMST2	SILTSTONE	SHALE GRA	
DOL3	LMST3	SHALE BRN	SHALE RED	

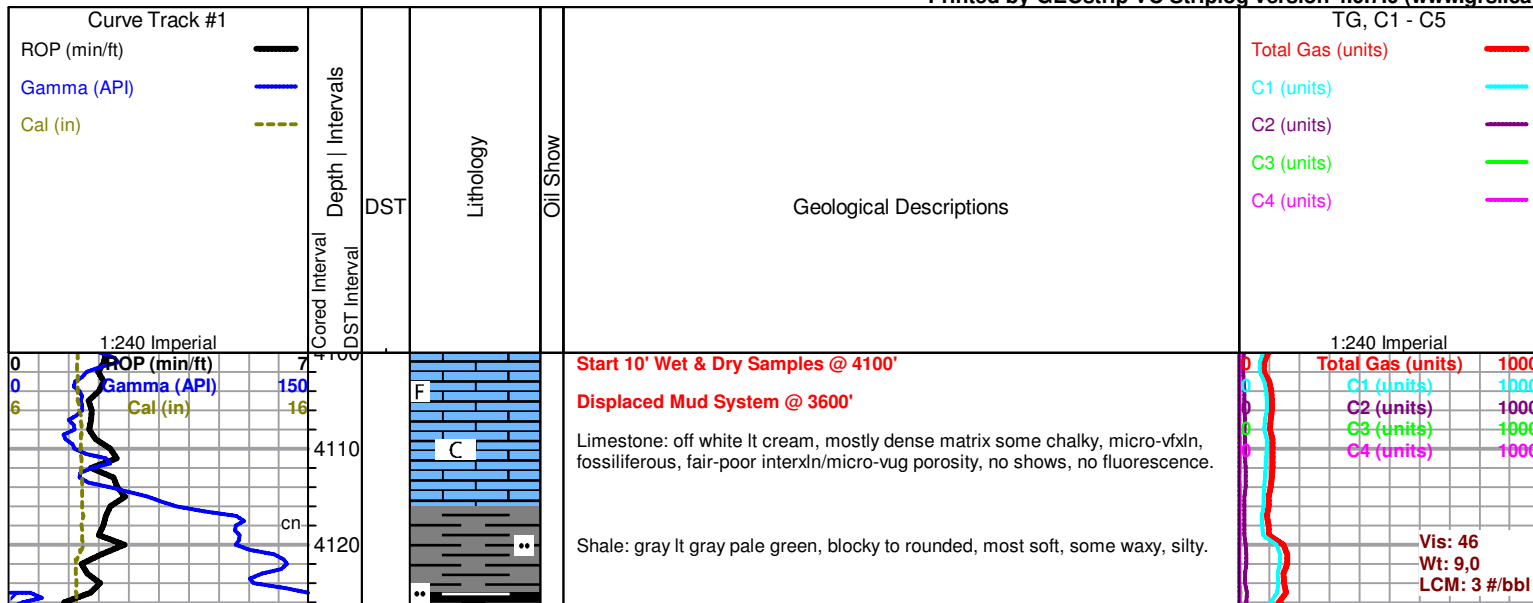
### ACCESSORIES

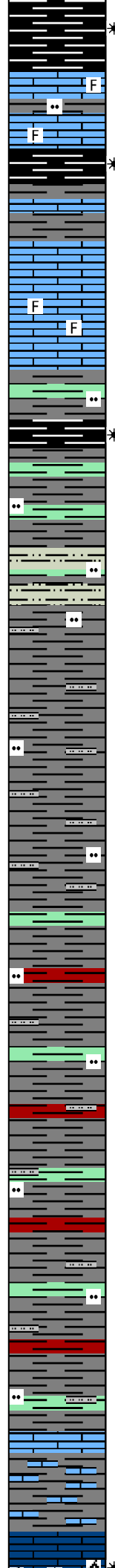
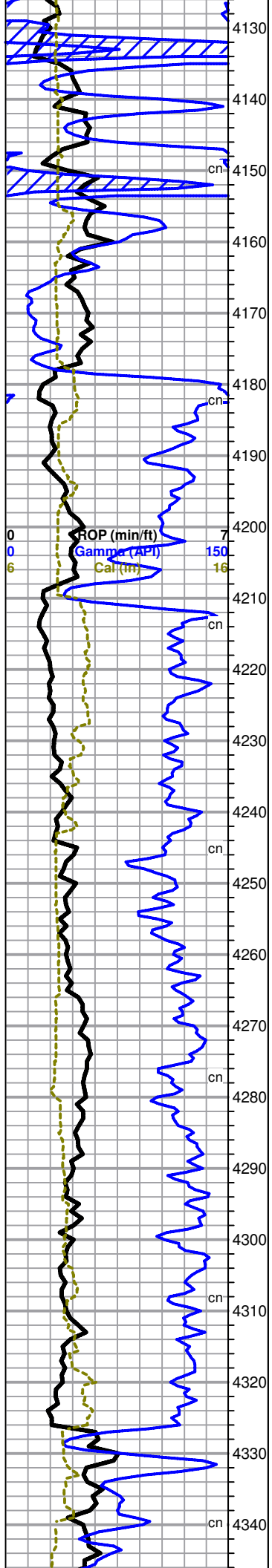
<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
∟ Dolomitic	∩ Bioclastic or Fragmental	~~~~ Chert	C Chalky
P Pyrite	F Fossils < 20%	Dolomite2	L Lithogr
∧ Siliceous	∅ Oolite	Dolomite4	
• Silty	⊕ Oomoldic	Limestone2	
△ Chert White		Limestone3	
		Limestone4	
		Sandstone	
		Siltstone	
		Shale Brown	
		Shale Gray	
		Shale Red	

### OTHER SYMBOLS

<b>DST</b>
DST1
DST2
DST3
Core
tail pipe

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





Shale: black, carbonaceous, blocky, firm to waxy, fair gas show.

Limestone: lt cream, dense, microxln, fossiliferous, some barren, poor visible porosity, no shows, no fluorescence, with interbedded Shale.

**HEEBNER 4147' (-1899')**

Shale: black dk gray, carbonaceous, blocky, firm to waxy, fair gas show.

**TORONTO 4160' (-1912')**

Limestone: gray cream mottled, dense matrix, microxln, barren, some pelletal, no visible porosity, no shows, no fluorescence.

Limestone: white, dense xln matrix, micro-cryptoxln, fossiliferous, poor visible porosity, no shows, poor dull mineral fluorescence.

**DOUGLAS 4178' (-1930')**

Shale: some black, carbonaceous, fair gas show, with Shale: gray lt gray lt green, blocky to rounded, hard to soft, some silty.

**Geologist Derek W. Patterson on location 1845 hrs 7.4.13**

Shale: as above, with Siltstone: gray lt gray salt & pepper, blocky and dense, vfgained, heavily micaceous, no shows.

Shale: gray lt gray, blocky to rounded, most soft, some fissile, abundant silty material, with some scattered Siltstone stringers as above.

Shale: gray dk gray lt gray lt green pale green some dk red, blocky to rounded, most soft, some slightly waxy, abundant silty material, with Siltstone stringers: gray lt gray salt & pepper, blocky and dense, vfgained, heavily micaceous, no shows.

Shale: gray dk gray lt gray lt green pale green some dk red, dense and blocky to rounded and softer, some slightly waxy, abundant silty material, with Siltstone stringers: gray lt gray salt & pepper, blocky and dense, vfgained, heavily micaceous, no shows.

**BROWN LIME 4327' (-2079')**

Limestone: cream tan lt brown, dense tight matrix, micro-cryptoxln, barren, no visible porosity, no shows, no fluorescence.

Shale: gray dk gray, blocky to rounded, softer, with Limestone stringers.

**LANSING-KANSAS CITY 4341' (-2093')**

4363' cfs 20" - Limestone: cream, friable matrix, vfxln, oolitic in part, good porosity, dense limestone, and some thin, massive, oolitic, in part, silty, clayey.

Shale Kick

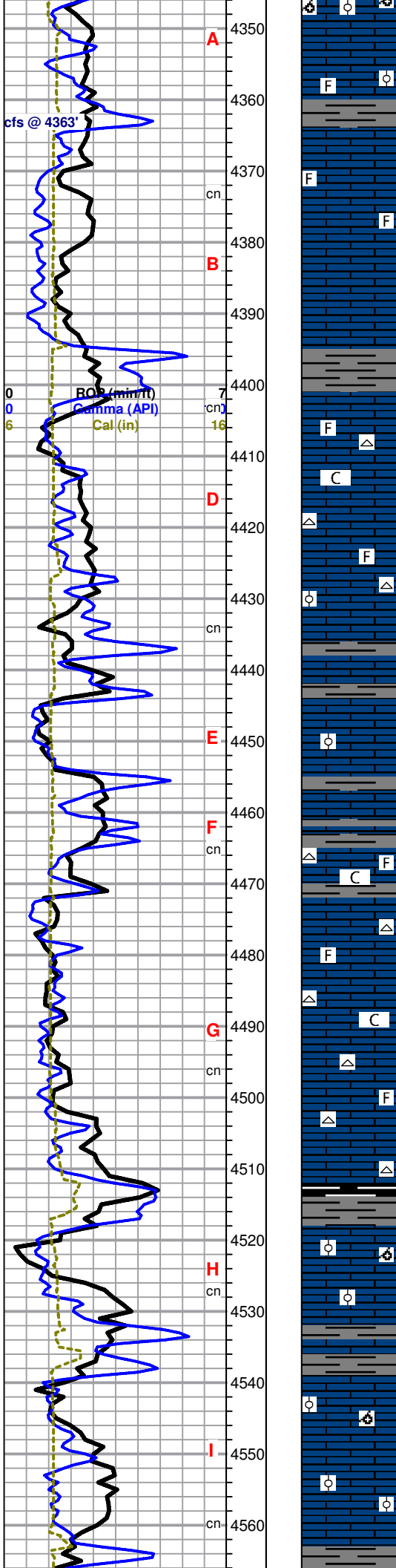
Shale Kick

Shale Kick

Total Gas (units)	1000
C1 (units)	1000
C2 (units)	1000
C3 (units)	1000
C4 (units)	1000

Vis: 50  
Wt: 9.2  
LCM: 2 #/bbl

1219u Total



ooidic development and porosity, some 2ndary xln in molds, no oil show, poor gas show upon break, spotty bright lt yellow fluorescence, milky bluish cut, faint odor.

4363' cfs 40"/60" - Limestone: cream, dense matrix, microxln, fossiliferous-oolitic, poor visible porosity, no shows, no fluorescence.

Limestone: lt gray lt cream some mottled, dense tight xln matrix, microxln, sub-fossiliferous to fossiliferous, poor visible porosity, no shows, no fluorescence.

Limestone: lt gray off white, dense xln matrix, micro-cryptoxln, barren, little-no visible porosity, no shows, no fluorescence.

Limestone: cream tan gray some mottled, dense sub-chalky matrix, microxln, scattered fossiliferous to barren, fair interxln porosity, no shows, no fluorescence, with scattered Chert: cream tan, opaque, fresh and sharp.

Limestone: cream lt cream lt gray, dense tight matrix, micro-vfxln, fossiliferous with scattered oolitic, fair amount of 2ndary xln along edges, poor visible porosity, no shows, no fluorescence, with some scattered Chert as above.

Limestone: tan brown dk gray, dense tight matrix, micro-cryptoxln, barren, no visible porosity, no shows, no fluorescence.

Limestone: lt cream cream, dense matrix, vfxln, mostly barren with some scattered sub-oolitic, fair pinpoint porosity throughout, no shows, no fluorescence.

Limestone: cream lt tan lt gray, dense to softer chalky matrix, vfxln, mostly barren with trace sub-fossiliferous, grainy in part, some shaley, poor pinpoint porosity, no shows, no fluorescence, with abundant Chert: cream tan lt gray, opaque, fresh and sharp.

Limestone: cream lt cream lt gray, softer chalky matrix, vf-fxln, sub-fossiliferous to barren, grainy in part, scattered 2ndary xln in most, fair pinpoint porosity throughout, no shows, no fluorescence, with continued Chert as above.

Limestone: lt cream lt gray, dense cherty matrix, crypto-microxln with abundant lithographic non-descript, sub-fossiliferous, poor-no visible porosity, no shows, no fluorescence, with Chert: gray cream tan, opaque, fresh and sharp.

**MUNCIE CREEK 4512' (-2264')**

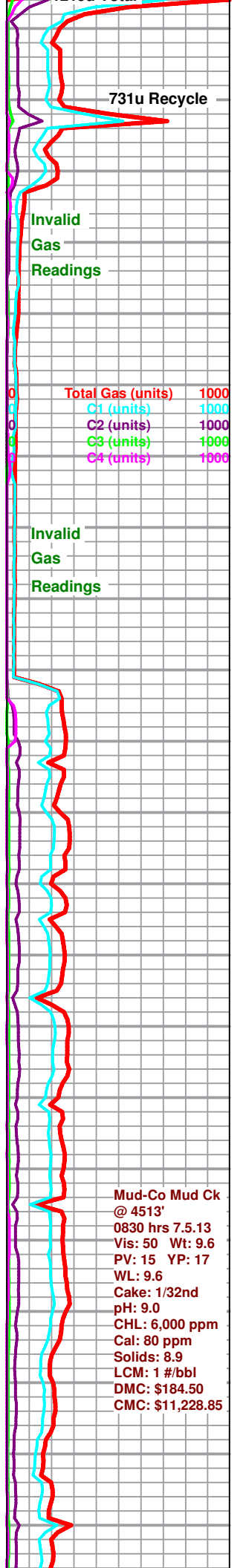
Shale: trace black, carbonaceous, no gas show, with Shale: gray lt gray, blocky to rounded, mostly soft.

Limestone: off white lt cream, sub-friable to dense tight matrix, vfxln, oolitic with some scattered fair oomoidic development and associated porosity, no shows, no fluorescence, pieces becoming tighter with depth.

Limestone: lt cream lt gray, dense xln matrix, micro-cryptoxln, barren, poor visible porosity, no shows no fluorescence, with interbedded Shale.

Limestone: cream tan, dense matrix, microxln, oolitic with good-fair oomoidic development and associated porosity, some 2ndary xln fill in molds, no shows, very poor-no mineral fluorescence.

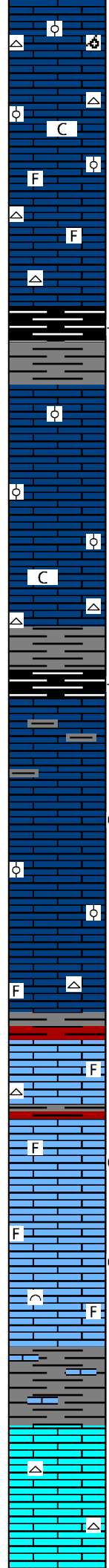
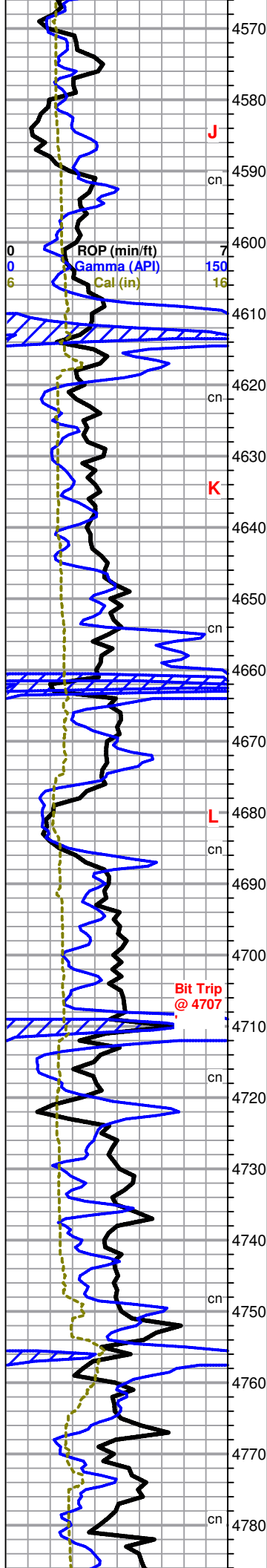
Limestone: cream tan, very dense matrix, micro-cryptoxln with some lithographic non-descript, most barren with some scattered sub-oolitic, no visible porosity, no shows, no fluorescence.



731u Recycle

Total Gas (units) 1000  
 C1 (units) 1000  
 C2 (units) 1000  
 C3 (units) 1000  
 C4 (units) 1000

Mud-Co Mud Ck @ 4513'  
 0830 hrs 7.5.13  
 Vis: 50 Wt: 9.6  
 PV: 15 YP: 17  
 WL: 9.6  
 Cake: 1/32nd  
 pH: 9.0  
 CHL: 6,000 ppm  
 Cal: 80 ppm  
 Solids: 8.9  
 LCM: 1 #/bbl  
 DMC: \$184.50  
 CMC: \$11,228.85



Limestone: white lt gray, friable matrix, vfxln, scattered oolitic, excellent oomoldic development and associated porosity, heavy 2ndary xln in molds, no shows, no fluorescence, with some Chert: tan brown, opaque, fresh and sharp.

Limestone: It cream lt gray cream, mostly dense chalky matrix, micro-vfxln, fossiliferous, trace oolitic, fair pinpoint porosity throughout, no shows, no fluorescence, with continued scattered Chert as above.

Limestone: cream lt cream lt tan, dense matrix, microxln, sub-fossiliferous to barren, poor visible porosity. no shows, no fluorescence, with trace Chert.

**STARK 4609' (-2361')**

Shale: black, carbonaceous, blocky and firm, some slightly waxy, fair gas show upon break.

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

Limestone: cream lt cream lt gray, dense tight matrix, microxln, mostly barren with some scattered sub-oolitic, poor visible porosity, no shows, no fluorescence.

Limestone: cream lt cream lt gray, dense tight matrix, microxln, mostly barren with some scattered sub-oolitic, poor visible porosity, no shows, no fluorescence, with scattered Chert: gray white cream, opaque to translucent, fresh and sharp, some fossiliferous, and loose Chalk.

**HUSHPUCKNEY 4660' (-2412')**

Shale: black dk gray, carbonaceous, blocky and firm, some slightly waxy, fair gas show upon break.

Limestone: cream lt tan gray, dense matrix, microxln, mostly barren, some shaley, poor visible porosity, no shows, no fluorescence,

Limestone: lt cream cream off white, dense matrix, microxln, micro-oolitic to barren, scattered fair pinpoint porosity, (1) piece with very poor visible stain upon break, no live shows, no fluorescence, no cut, no odor.

Limestone: cream tan lt gray, dense matrix, microxln, sub-fossiliferous to barren, poor visible porosity, no shows, no fluorescence, with some scattered Chert: cream tan, fresh and sharp, barren.

**BASE KANSAS CITY 4708' (-2460')**

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

Limestone: cream tan lt gray, dense matrix, microxln, sub-fossiliferous to barren, poor visible porosity, no shows, no fluorescence, with some scattered Chert: cream tan, opaque, fresh and sharp, barren.

**PLEASANTON 4723' (-2475')**

Limestone: cream, dense matrix, microxln, scattered sub-fossiliferous to barren, some scattered vuggy porosity, (1) piece with fair show lt brown oil upon break, spotty lt yellow fluorescence, fair cut, faint odor.

Limestone: lt cream cream tan, dense matrix, microxln, most fossiliferous with some hash, fair-poor visible porosity, few pieces with poor show lt brown oil upon break, spotty bright lt yellow fluorescence, fair cut, faint odor.

Shale: gray dk gray, mostly blocky and firm, some limey, with Limestone stringers/interbedded Limestone: gray dk gray, dense matrix, microxln, barren, very limey, no visible porosity, no shows, no fluorescence.

**MARMATON 4766' (-2518')**

Limestone: cream lt tan brown, dense tight cherty matrix, micro-cryptoxln, barren, poor-no visible porosity, no shows, no fluorescence.

Total Gas (units) 1000  
C1 (units) 1000  
C2 (units) 1000  
C3 (units) 1000  
C4 (units) 1000

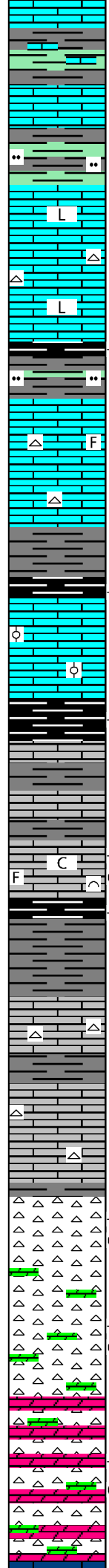
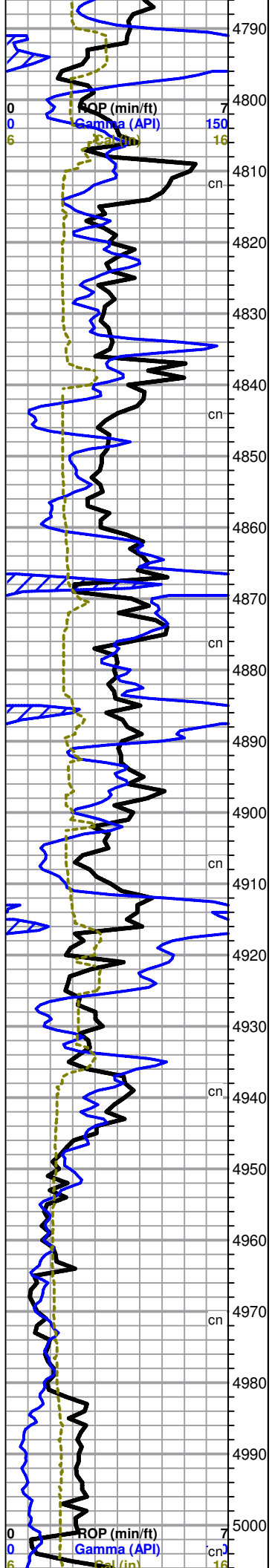
Shale Kick

Vis: 53  
Wt: 9.4  
LCM: 2 #/bbl

Shale Kick

Vis: 51  
Wt: 9.5  
LCM: 2 #/bbl

Shale Kick



Shale: gray dk gray some dk green, blocky to slightly rounded, most firm to fissile, with Limestone stringers: gray dk gray, dense matrix, microxln, barren, very limey, no visible porosity, no shows, no fluorescence.

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

Shale: gray dk gray dk green, most blocky and firm, some silty in part, abundant fissile material.

Limestone: cream tan lt brown, very dense cherty matrix, micro-cryptoxln with abundant lithographic non-descript, barren, little-no visible porosity, no shows, no fluorescence, with scattered Chert: cream tan brown, opaque, fresh and sharp, barren.

Shale: trace black, carbonaceous, blocky and dense, poor gas show, with Shale: gray dk gray lt gray lt green, blocky and firm, silty in part.

**PAWNEE 4842' (-2594')**

Limestone: cream tan brown, dense tight matrix, micro-cryptoxln, scattered sub-fossiliferous with most barren, no visible porosity, no shows, no fluorescence, with scattered Chert: tan brown, opaque, fresh and sharp, barren.

Shale: gray dk gray, blocky to rounded, mostly soft to waxy, with Shale: black, carbonaceous, blocky to rounded, waxy, poor gas show.

**FORT SCOTT 4870' (-2622')**

Limestone: tan, dense, microxln, oolitic in part, no porosity, no shows.

**CHEROKEE 4884' (-2636')**

Shale: black, carbonaceous, blocky to rounded, most firm to waxy, good gas show upon break.

Limestone: off white lt cream, dense chalky matrix, microxln, barren, poor porosity, no shows, no fluorescence, with interbedded Shale: gray dk gray, blocky to rounded, mostly soft, some fissile to splintery.

Limestone: cream lt cream lt tan, dense to softer chalky matrix, microxln, scattered fossiliferous/bioclastic, fair vuggy/pinpoint porosity, even-spotty lt brown stain, good gas show with fair lt brown oil show upon break, spotty-even bright yellow fluorescence, fair bluish-white cut, fair odor.

Shale: black dk gray, carbonaceous, blocky to rounded, waxy, fair gas show.

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

Limestone: cream lt cream tan, dense tight matrix, microxln, barren, poor visible porosity, no shows, no fluorescence, with some scattered Chert: cream tan white, opaque, fresh and sharp, some fossiliferous.

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

Limestone: cream lt cream tan, dense tight matrix, microxln, barren, poor visible porosity, no shows, no fluorescence, with some scattered Chert: cream tan white, opaque, fresh and sharp, some fossiliferous.

**MISSISSIPPIAN CHERT 4954' (-2706')**

Chert: white, opaque to translucent, fresh and sharp, barren, with Chert: cream tan, translucent, fresh and sharp with some slightly weathered, some scattered vugs, golden brown saturated stain, fair gas show, poor oil show, even bright lt yellowish-green fluorescence, fair cut, strong odor.

Chert: as above, with Chert: cream tan, weathered texture with increased vugular porosity, even golden saturated stain, fair gas show, fair-good show oil upon break, even bright lt yellowish-green fluorescence, white cut, and scattered Dolomite: lt cream, friable matrix, vfxln, sucrosic, good interxln porosity, even stain, good gas show and poor show oil upon break, bluish-white cut, strong odor and free oil.

Chert: white, opaque to translucent, fresh and sharp, barren, with Chert: cream tan, weathered texture with fair-good vugular porosity, even golden saturated stain, fair gas show, fair show oil upon break, even bright lt yellowish-green fluorescence, white cut, and influx Dolomite: white lt gray, friable matrix, vfxln, sucrosic, fair porosity, no shows, even pale yellow fluorescence, no cut, moderate odor and some free oil.

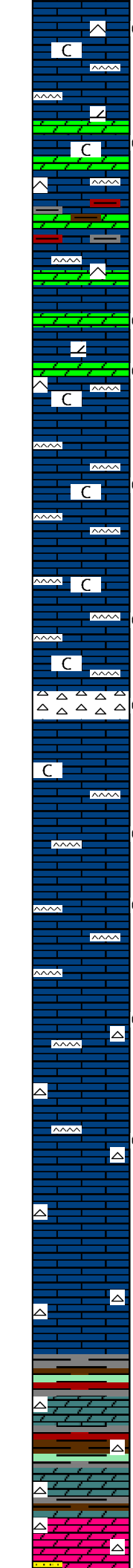
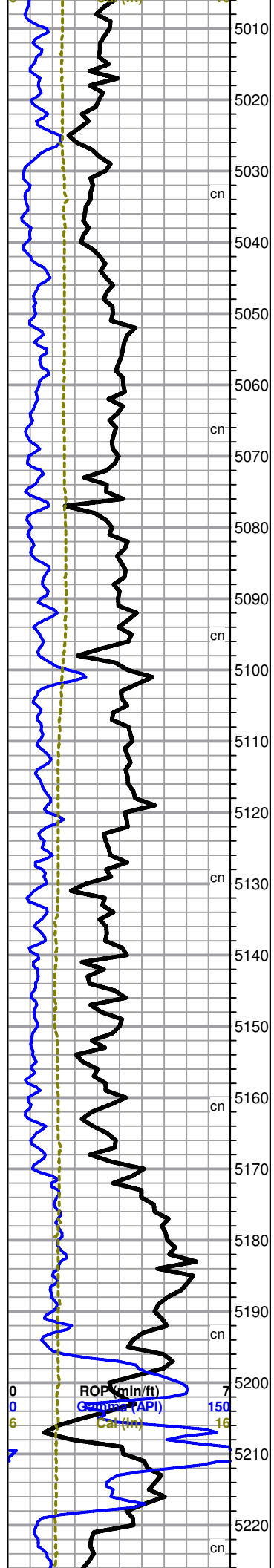
**MISSISSIPPIAN LIMESTONE 5005' (-2757')**

Total Gas (units) 1000  
C1 (units) 1000  
C2 (units) 1000  
C3 (units) 1000  
C4 (units) 1000

Mud-Co Mud Ck @ 4883'  
1145 hrs 7.6.13  
Vis: 57 Wt: 9.7  
PV: 10 YP: 25  
WL: 12.8  
Cake: 1/32nd  
pH: 9.5  
CHL: 6,500 ppm  
Cal: 100 ppm  
Solids: 9.7  
LCM: Trc  
DMC: \$1,427.80  
CMC: \$12,656.65

Shale Kick?

702u Total  
Total Gas (units) 1000  
858u Total  
C1 (units) 1000  
C2 (units) 1000  
C3 (units) 1000  
C4 (units) 1000



5010 Limestone: white lt gray, dense chalky to cherty matrix, micro-vfxln, some dolomitic, imbedded silica, overall poor-fair visible porosity, few pieces with poor spotty stain, very poor scattered dull yellow fluorescence, no cut, with abundant Chert: white gray clear, translucent to opaque, fresh and sharp, some slightly weathered to limey, no shows, some poor fluorescence, no cut, faint odor.

5020 Limestone: as above, with Dolomite: Dolomite: lt gray white, softer friable matrix, sucrosic, some limey, barren, trace edge stain and poor oil show in few pieces upon break with most barren of show, and continued Chert, scattered bright lt yellow fluorescence in sample, little-no cut, faint odor.

5030 As above, with good amount of Shale stringers.

5040 Limestone: white lt cream, dense sub-chalky to dolomitic matrix, microxln, some imbedded silica, fair-poor visible fracture porosity, couple of pieces with poor stain within fractures, couple of oil droplets in sample, with Dolomite: lt gray white, softer friable matrix, sucrosic, some limey, barren, trace edge stain and poor oil show in few pieces upon break, and Chert: white gray, opaque to translucent, fresh and sharp, fossiliferous to barren, few pieces with poor stain in fracture, scattered bright lt yellow fluorescence in sample, little-no cut, faint odor.

5050

5060 Limestone: white lt cream, dense sub-chalky to cherty matrix, microxln, scattered imbedded silica, overall poor visible porosity, no shows, no fluorescence, with Chert: white gray, opaque to translucent, fresh and sharp, fossiliferous to barren, couple pieces with poor stain in fracture, no live shows noted, no fluorescence, no odor.

5070

5080 **Note: Samples becoming extremely shaley from this point on with Shale: gray dk gray dk red dk green brown, most splintery and dense.**

5090 Limestone: white lt cream, dense sub-chalky to cherty matrix, microxln, scattered imbedded silica, overall poor visible porosity, no shows, no fluorescence, questionable poor cut, with scattered Chert: white gray, opaque to translucent, fresh and sharp, fossiliferous to barren, no shows, no fluorescence, no cut, no odor.

5100

5110 Limestone: lt cream off white, grading to a softer chalky matrix, microxln, barren, poor visible porosity, no shows, no fluorescence, no cut, with scattered Chert: cream tan, translucent, fresh and sharp, slight stain in fractures, spotty bright lt yellow fluorescence, poor-no cut, no odor.

5120

5130 Limestone: tan cream brown, dense cherty matrix, micro-cryptoxln, barren, scattered fracture porosity, few pieces with slight saturated edge stain, very poor show oil droplets upon break in couple of pieces, spotty bright lt yellow fluorescence, bluish-white cut, with scattered Chert: cream tan, opaque to translucent, fresh and sharp with trace sub-weathered, some visible fracture porosity, slight golden stain in couple of pieces, spotty-even bright lt yellow fluorescence, very poor cut, no odor.

5140

5150 Limestone: cream tan brown, dense tight slightly cherty matrix, micro-cryptoxln, barren, scattered poor fracture porosity, most no visible porosity, no shows, no fluorescence, no cut, with Chert: gray white speckled, fresh and sharp, fossiliferous in part, few pieces with poor stain in fracture, scattered bright lt yellow fluorescence, no cut, no odor.

5160

5170 Limestone: cream tan brown, dense tight slightly cherty matrix, micro-cryptoxln, barren, scattered poor fracture porosity, most no visible porosity, no shows, no fluorescence, no cut, with Chert: gray white speckled, fresh and sharp, fossiliferous in part, few pieces with poor stain in fracture, scattered bright lt yellow fluorescence, no cut, no odor.

5180

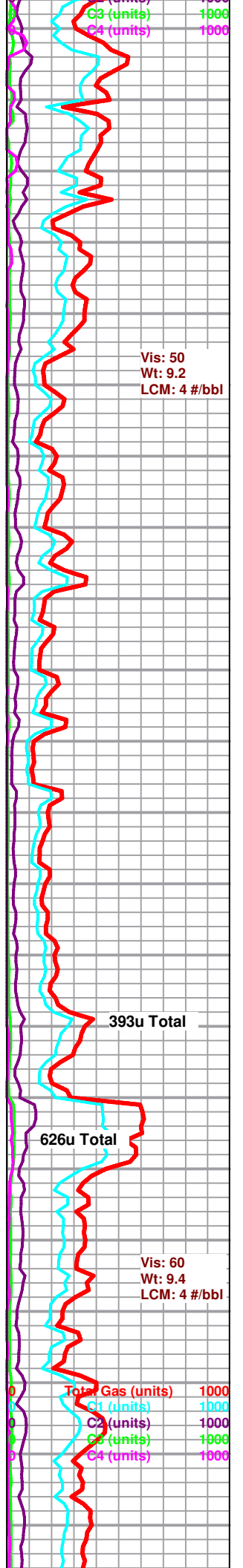
5190 Limestone: cream tan brown, dense tight slightly cherty matrix, micro-cryptoxln, barren, scattered poor fracture porosity, most no visible porosity, no shows, no fluorescence, no cut, with scattered Chert: white, opaque to translucent, some fossiliferous-oolitic with most barren, no shows, no cut.

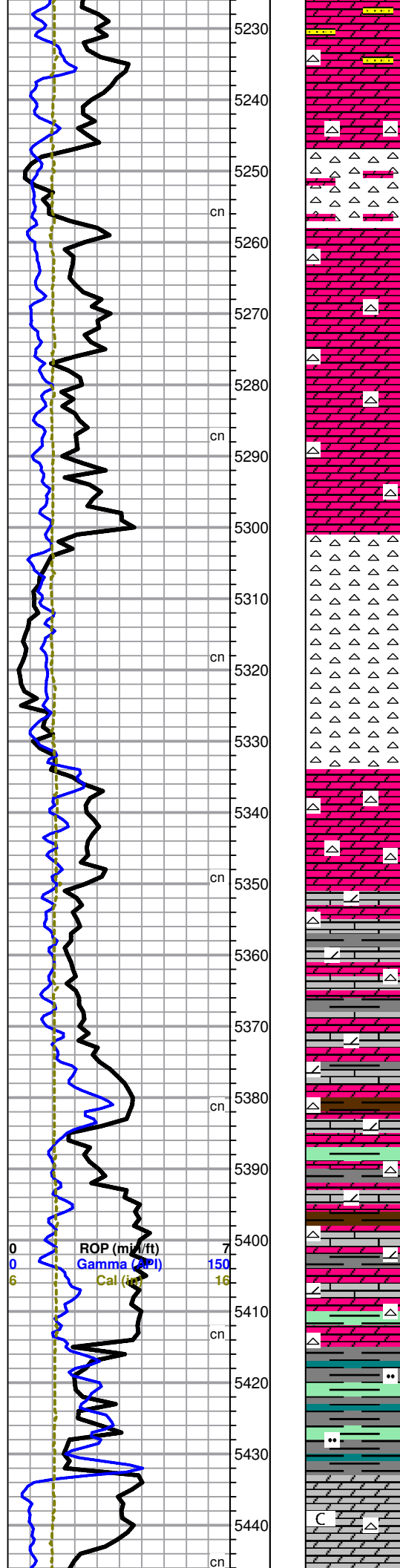
5200

5210 **KINDERHOOK 5196' (-2948')**  
Shale: gray dk gray dk red maroon brown dk green, blocky, most hard and dense, heavy clay percentage, with some scattered Chert: fray dk gray, opaque, fresh and sharp, with interbedded Dolomite: tan brown, dense matrix, microxln, poor sucrosic development, limey in part, poor porosity, no shows, no fluorescence.

5220 Dolomite: tan lt brown cream, dense matrix, micro-vfxln, heavily arenaceous, fair-poor visible porosity, no shows, no fluorescence, with scattered Sandstone: clear silica grains in gray lt gray tan brown matrix, dense, vfgained, well

**VIOLA 5218' (-2970')**





cemented, well sorted angular to sub-rounded grains, poor porosity, no shows, no fluorescence, and fair amount of Chert: bone white lt gray, opaque to translucent, fresh and sharp, sub-fossiliferous to barren.

Dolomite: cream lt gray, dense matrix, microxln, poor xln development and associated porosity, no shows, no fluorescence, with continued Chert, Sandstone stringers drop out.

Influx Chert: bone white lt gray, opaque to translucent, fresh and sharp, and abundant Dolomite: cream lt cream, dense matrix, fxln, good rhombic development and associated porosity, no shows, no fluorescence.

Dolomite: cream lt cream tan, dense matrix, micro-vfxln with some scattered fxln, overall poor xln development with some scattered fair rhombic, most poor visible porosity, no shows, no fluorescence, with Chert: bone white, opaque, fresh and sharp to slightly weathered, fossiliferous to barren, no shows.

Dolomite: cream lt cream tan, dense matrix, micro-vfxln with some scattered fxln, overall poor xln development with some scattered fair rhombic, most poor visible porosity, no shows, no fluorescence, with Chert: bone white, opaque, fresh and sharp to slightly weathered, fossiliferous to barren, no shows.

Chert: bone white, opaque to translucent, fresh and sharp to slightly weathered, sub-fossiliferous to barren, no shows, very poor dull white mineral fluorescence, no cut.

Dolomite: cream tan, dense matrix, micro-vfxln with some scattered fxln, overall poor xln development with some scattered fair rhombic, most poor visible porosity, no shows, no fluorescence, with Chert: bone white, opaque, fresh and sharp to slightly weathered, fossiliferous to barren, no shows.

Dolomite: cream tan brown, dense matrix, micro-vfxln, some limey to shaley, poor xln development, poor porosity, no shows, no fluorescence, with Limestone: cream tan brown, dense dolomitic matrix, micro-vfxln, shaley in part, barren, poor visible porosity, no shows, no fluorescence, Chert: bone white, opaque, fresh and sharp to slightly weathered, fossiliferous to barren, no shows, and influx Shale: gray dk gray, blocky and firm, most splintery.

Dolomite: cream tan brown, dense matrix, micro-vfxln, some limey to shaley, poor xln development, poor porosity, no shows, no fluorescence, with Limestone: cream tan brown, dense dolomitic matrix, micro-vfxln, shaley in part, barren, poor visible porosity, no shows, no fluorescence, Chert: bone white, opaque, fresh and sharp to slightly weathered, fossiliferous to barren, no shows, and Shale: gray dk gray lt green some brown, blocky and firm, most splintery.

**SIMPSON 5415' (-3167')**

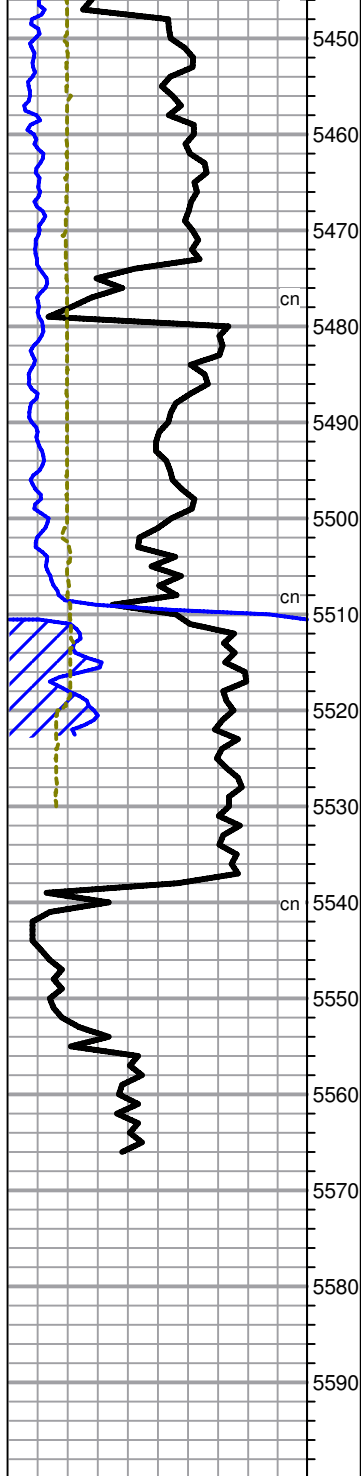
Shale: gray dk gray pale green teal, blocky, most dense and firm with some softer and waxy, silty, abundant splintery material.

**SIMPSON DOLOMITE 5433' (-3185')**

Dolomite: lt cream lt gray dense matrix, micro-vfxln, poor xln development and associated porosity, no shows, no fluorescence, with scattered Chert: bone white cream, opaque, fresh and sharp, barren, no shows, some dull white

**Mud-Co Mud Ck @ 5294'**  
 1045 hrs 7.7.13  
 Vis: 56 Wt: 9.3+  
 PV: 17 YP: 21  
 WL: 9.6  
 Cake: 1/32nd  
 pH: 10.0  
 CHL: 3,500 ppm  
 Cal: 80 ppm  
 Solids: 6.8  
 LCM: 4 #/bbl  
 DMC: \$2,991.70  
 CMC: \$15,648.35

**Scale Change**  
 Total Gas (units) 300  
 C1 (units) 300  
 C2 (units) 300  
 C3 (units) 300  
 C4 (units) 300



white cream; opaque, fresh and sharp; barren, no shows, and dull white mineral fluorescence, and loose Chalk, sample washes white.

Dolomite: It cream lt gray, dense matrix, micro-vfxln with some scattered coarsexln, poor-fair xln development and associated porosity, no shows, no fluorescence, with scattered Chert: bone white cream, opaque, fresh and sharp, barren, no shows, some dull white mineral fluorescence, and loose Chalk, sample washes white.

Dolomite: It cream cream pink, dense matrix, micro-vfxln, some scattered sub-rhombic development, scattered vugs, poor-fair visible porosity, no shows, no fluorescence, with scattered Chert: bone white cream, opaque, fresh and sharp, barren, no shows, some dull white mineral fluorescence, and loose Chalk, sample washes white.

Shale: teal dk gray gray pale green, mostly blocky, firm and waxy to softer, some scattered pyritic.

Shale: teal dk gray gray pale green, mostly blocky, firm and waxy to softer, some scattered pyritic.

**SIMPSON SAND (LOWER) 5538' (-3290') -- Sample Top**

Sandstone: clear silica grains in cream white matrix, well cemented with some scattered slightly friable, vf-grained with some coarse grained, fairly sorted, sub-angular to sub-rounded, pyritic in part, shaley in part, poor intergranular porosity, no shows, no fluorescence.

**ARBUCKLE 5553' (-3305') -- Sample Top**

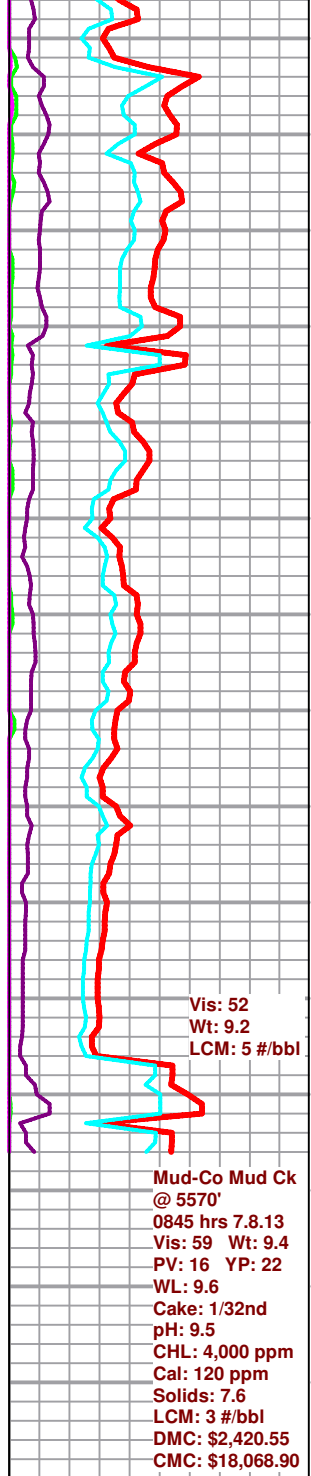
Dolomite: tan lt tan cream, dense matrix, micro-vfxln, poor xln development and associated porosity, no shows, even pale yellow mineral fluorescence.

**LTD 5566' (-3318')**

**RTD 5570' (-3322')**

Geologist Derek W. Patterson released 1800 hrs 7.8.13

Respectfully Submitted,  
Derek W. Patterson



Vis: 52  
Wt: 9.2  
LCM: 5 #/bbl

Mud-Co Mud Ck  
@ 5570'  
0845 hrs 7.8.13  
Vis: 59 Wt: 9.4  
PV: 16 YP: 22  
WL: 9.6  
Cake: 1/32nd  
pH: 9.5  
CHL: 4,000 ppm  
Cal: 120 ppm  
Solids: 7.6  
LCM: 3 #/bbl  
DMC: \$2,420.55  
CMC: \$18,068.90





Customer <b>CASS ENERGY LLC</b>	Lease No.	Date <b>6-30-2013</b>
Lease <b>McCLAREN 'B'</b>	Well # <b>1</b>	
Field Order # <b>00551</b>	Station <b>PRATT, KS.</b>	Casing <b>8 5/8"</b> Depth
Type Job <b>CNW - 8 5/8" S.P.</b>	Formation <b>TD - 485'</b>	Legal Description <b>6-30-18</b>
County <b>KIOWA</b>		State <b>Ks.</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>8 5/8" x 23"</b>			<b>CMT -</b>	<b>150 SK ASERV LITE</b>				
Depth <b>4133.29</b>	Depth	From	To	Pre-Pad <b>@ 1.64 CWT</b>	Max		5 Min.	
Volume <b>30.93 BBL</b>	Volume	From	To	Pad <b>150 SK COMMON</b>	Min <b>SJ = 20'</b>		10 Min.	
Max Press <b>500</b>	Max Press	From	To	Fract <b>@ 1.20 CWT</b>	Avg		15 Min.	
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>4103.29</b>	Packer Depth	From	To	Flush <b>29.5 BBL</b>	Gas Volume		Total Load	

Customer Representative <b>BRUCE</b>	Station Manager <b>K. GORDLEY</b>	Treater <b>K. LESLEY</b>
Service Units <b>37586 19959 19843 70959 19918</b>		
Driver Names <b>LESLEY MARQUEZ — PIERSON —</b>		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<b>8:00 AM</b>					<b>ON LOCATION - SAFETY MEETING</b>
<b>5:00 PM</b>					<b>RUN 11 JTS. 8 5/8" x 23" CSG.</b>
<b>6:00 PM</b>					<b>CSG. ON BOTTOM</b>
<b>6:05 PM</b>					<b>HOOK UP TO CSG. / BREAK CIRC. W/ RIG</b>
<b>6:30 PM</b>	<b>200</b>		<b>5</b>	<b>6</b>	<b>H2O AHEAD</b>
<b>6:33 PM</b>	<b>100</b>		<b>44</b>	<b>6</b>	<b>MIX 150 SKS. ASERV LITE @ 13.36 PPG</b>
<b>6:40 PM</b>	<b>50</b>		<b>32</b>	<b>6</b>	<b>MIX 150 SKS. COMMON @ 15.6 PPG</b>
<b>6:45 PM</b>					<b>SHUT DOWN - DROP TOP RUBBER PLUG</b>
<b>6:51 PM</b>	<b>0</b>		<b>0</b>	<b>5</b>	<b>START DISPLACEMENT</b>
<b>6:56 PM</b>	<b>175</b>		<b>20</b>	<b>3</b>	<b>SLOW RATE</b>
<b>7:00 PM</b>	<b>200</b>		<b>29.5</b>	<b>2</b>	<b>PLUG @ DESIRED DEPTH</b>
					<b>CIRC. THRU JOB</b>
					<b>CIRC. 10 BBL TO PIT</b>

**JOB COMPLETE,**  
**THANKS -**  
**KEVEN LESLEY**



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 08555 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 7-9-2013	DISTRICT	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 LLC	LEASE McCAREN B	WELL NO. 1							
ADDRESS	COUNTY KIOWA	STATE KS.							
CITY	STATE	SERVICE CREW LESLEY, MARQUEZ, PERSONI							
AUTHORIZED BY	JOB TYPE: CNLW - 5 1/2" L.S.								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37586	8					7-9-13	7-9-13	PM	11:30
19839-19843	8					ARRIVED AT JOB	7-9-13	AM	1:00
70959-19918	8					START OPERATION		AM	6:00
						FINISH OPERATION		AM	1:00
						RELEASED		AM	10:00
						MILES FROM STATION TO WELL			

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:   
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	HA2 CMT.	SK	275		4,675.00
CP 105	AA2 CMT.	SK	50		850.00
CC 105	C-41P DEFOAMER	lb	62		248.00
CC 111	SALT	lb	11633		816.50
CC 112	CMT. FRICTION REDUCER	lb	92		552.00
CC 129	FLA-322 LOW FLUID LOSS	lb	153		1,147.50
CC 201	GILSONITE	lb	1625		1,088.75
CF 607	LATCH DOWN PLUG & BAFFLE 5 1/2"	EA	1		400.00
CF 1251	AUTO FILL FLOAT SHCE 5 1/2"	EA	1		360.00
CF 11051	TURBOLIZER 5 1/2"	EA	10		1,100.00
CF 1901	BASKET 5 1/2"	EA	1		290.00
CC 154	SUPERFLUSH	GAL	500		1,225.00
E 100	PICKUP MILEAGE	MI	40		170.00
E 101	HEAVY EQUIPMENT MILEAGE	MI	80		560.00
E 113	BUK DELIVERY CHARGE	TM	6.12		979.20
CE 206	DEPTH CHARGE 500'-1000'	HR	1.4		2,880.00
CE 240	BLENDING SERVICE	SK	325		455.00
CE 524	PLUG CONTAINER CHARGE	XB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00
SUB TOTAL					12,208.71

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE 	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: 
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer	LESSO ENERGY LLC	Lease No.		Date	7-9-2013
Lease	MCCLAREN B	Well #	1		
Field Order #	042555	Station	PRATT Ks.	Casing	5 1/2"
Type Job	CN(A) - 5 1/2" L.S.	Depth		County	KIOWA
		Formation	TD-55610'	State	Ks.
		Legal Description	G-30-18		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME			
Casing Size	5 1/2" x 15.5"	Tubing Size		Shots/Ft	CNCT - Acid	Acid	RATE	PRESS	ISIP
Depth	5542.110'	Depth		From	To	Pre Pad	Max		5 Min.
Volume	51.7 BBL	Volume		From	To	Pad	Min	55 = 21.39'	10 Min.
Max Press	1500	Max Press		From	To	Frac	Avg		15 Min.
Well Connection	1" C.	Annulus Vol.		From	To		HHP Used		Annulus Pressure
Plug Depth	5530.77'	Packer Depth		From	To	Flush	Gas Volume		Total Load
						131 BBL			

Customer Representative	BRUCE KELSO	Station Manager	K. GURDLEY	Treater	K. LESLEY
Service Units	375816	19889	19843	70959	19918
Driver Names	LESLEY	MARQUEZ	—	PERSON	—

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
1:00 AM					CN LOCATION - SAFETY MEETING
3:20 AM					RUN 132 JTS. 5 1/2" x 15.5" CSG.
4 AM					TURBO - 4, 7, 9, 11, 13, 15, 17, 28, 30, 32
5 AM					BASKET - 17
5:45 AM					CSG. ON BOTTOM
6:40 AM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
8:10 AM	300		5	10	H2O AHEAD
8:15 AM	175		12	6	SUPER FLUSH
8:17 AM	175		5	6	H2O SPACER
8:18 AM	150		70	6	MIX @ 75 SKS. AA2 @ 15 PPG
8:30 AM					CLEAR PUMP & LINE / DROP L.D. PLUG
8:36 AM	0		0	6	START DISPLACEMENT
8:51 AM	300		90	5	LIFT PRESSURE
8:57 AM	900		120	3	SLOW RATE
9:00 AM	1500		131	2	PLUG DOWN - HELD
					CIRC. THRU Y.B
9:05 AM					PLUG R.H. & M.H.
					W.B. COMPLETE,
					THANKS -
					KEVEN LESLEY





Date: 12-Aug-13

Well Name:	Location:	Customer Rep:	Field Order #
MCCLAREN B#1	6-30S-18W	BRUCE KELSO	08929A
Stage:	Formation:	Treat Via:	Allowable Pressure Tbg Csg Well Type:
1	MISSISSIPPI	CASING	2,500 OIL
County:	State:	Well Age:	PackerType: PackerDepth: Csg Size:
KIOWA	KS	NEW	5.5
Type Of Service:	2 STAGE PLUG AND PERF		
Customer Name:	LASSO ENERGY, LLC		
Address:			
Remarks:			
	Csg Depth	Tbg Size:	Tbg Depth: Liner Size:
	Liner Depth:	Liner Top:	Liner Bot: Total Depth:
	Open Hole:	Csg Vol:	BHT:
			120
	Perf Depths:	Perfs:	TotalPerfs:
	5087	5171	37

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	FOAM/FLD (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
7:47	0.0		3466		PSI TEST			
8:27	48.5		-18		ST PAD		75,000	1,786.0
8:29	26.1		592		HOLE LOADED			
8:31	31.4		775		INCREASE RATE			
8:33	47.1		1023		INCREASE RATE			
8:34	72.9		1121		INCREASE RATE			
8:36	99.9		1774		INCREASE RATE			
8:50	100.0		1706		ST .1#	2,100	21,000	502.0
8:51	100.0		1708		ON BOTTOM			
8:55	100.0		1673		ST .2#	5,000	25,000	601.0
8:56	100.2		1665		ON BOTTOM			
9:01	100.2		1633		ST .3#	8,400	28,000	676.0
9:02	100.2		1631		ON BOTTOM			
9:08	100.1		1607		ST .4#	12,000	30,000	727.0
9:09	100.0		1613		ON BOTTOM			
9:15	100.4		1588		ST .5#	15,000	30,000	731.0
9:16	100.0		1582		ON BOTTOM			
9:23	100.0		1523		ST .6#	18,000	30,000	734.0
9:24	100.2		1524		ON BOTTOM			
9:30	100.1		1521		ST .7#	21,000	30,000	737.0
9:31	100.2		1520		ON BOTTOM			
9:37	100.2		1506		ST .8#	24,000	30,000	740.0
9:39	100.1		1501		ON BOTTOM			
9:45	100.3		1513		ST .9#	23,400	26,000	645.0

Customer Acknowledgement:	Service Rating:	Treater:	<b>PRODUCTS USED</b>
	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory	JUSTIN BAILEY	



Date: 12-Aug-13

9:46	100.1	1498	ON BOTTOM			
9:51	99.9	1498	ST 1#	23,000	23,000	573.0
9:53	100.3	1480	ON BOTTOM			
9:57	100.3	1548	ST 1.5# RESIN	10,500	7,000	233.0
9:59	99.4	1520	RESIN ON BOTTOM			
10:00	100.2	1546	ST FLUSH		6,300	150.0
10:01	43.9	341	FLUSH ON BOTTOM			
10:03	12.4	470	ST ACID		500	12.0
10:04	12.6	440	ST FLUSH		5,050	114.0
10:12	1.8	259	SHUT DOWN JOB COMPLETE			
10:18	0.0	214	5 MIN			
10:23	0.0	173	10 MIN			
10:28	0.0	131	15 MIN			
<b>Total:</b>				<b>162,400</b>	<b>366,850</b>	<b>8,961.0</b>

**Summary**

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
100.4	86.2	3,489	1,393

Customer Acknowledgement:

Service Rating:

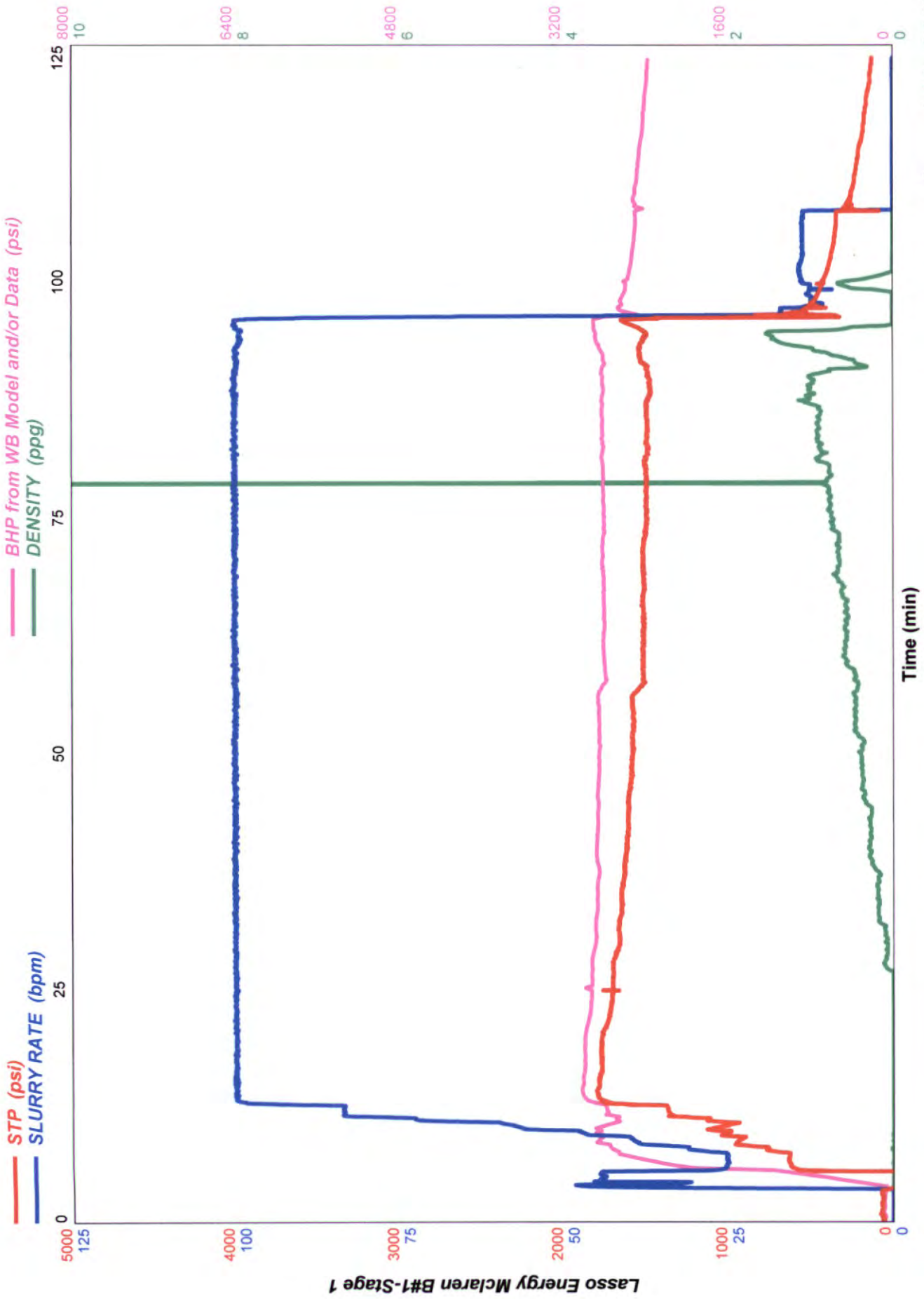
- Satisfactory
- Unsatisfactory

Treater:

JUSTIN BAILEY

**PRODUCTS USED**

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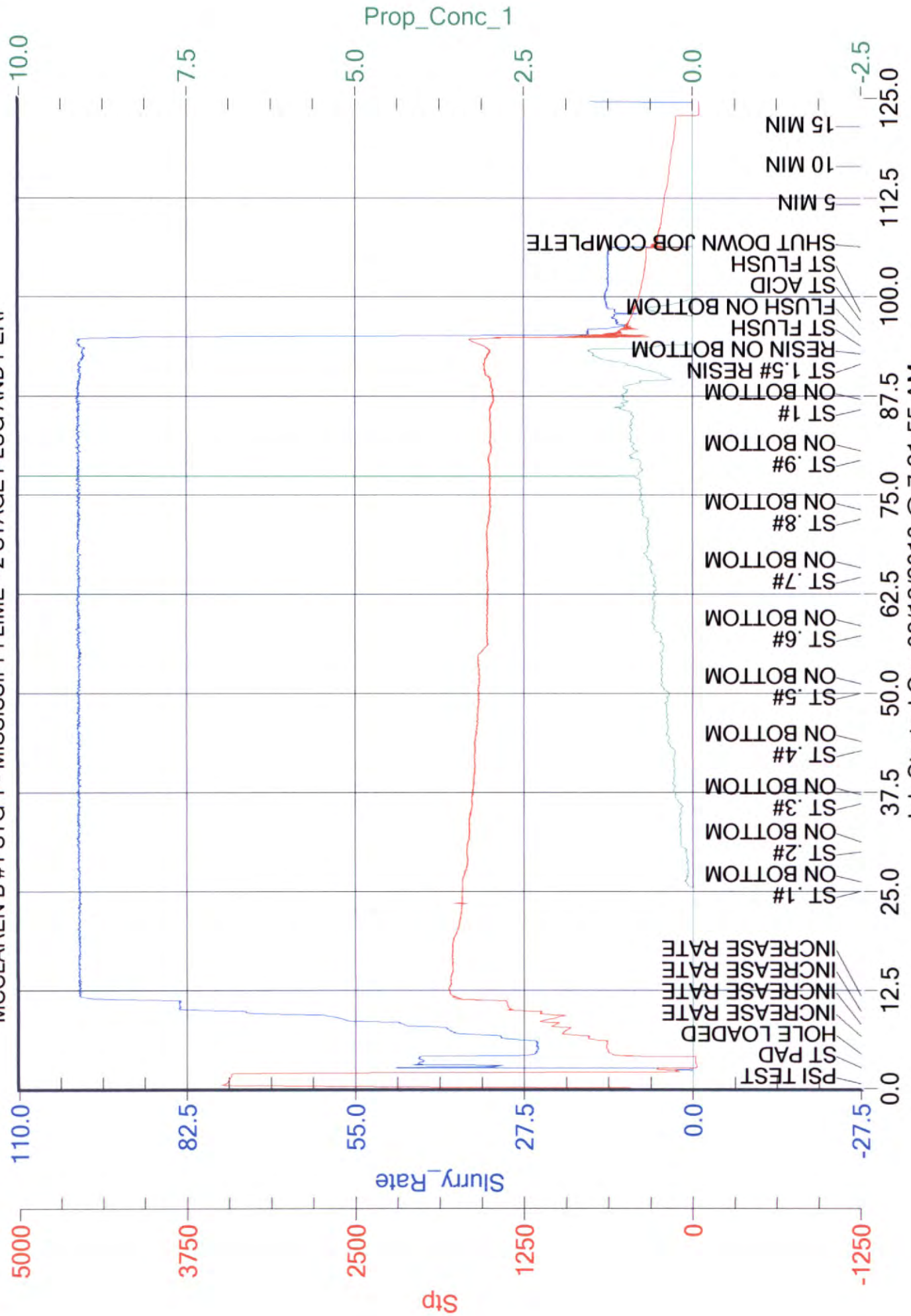


August 12, 2013



# LASSO ENERGY

MCCLAREN B #1 STG 1 - MISSISSIPPI LIME - 2 STAGE PLUG AND PERF



**Lasso Energy, LLC.**

McClaren B #1

Kiowa County, KS Sec. 6-30S-18W

2 Stage Plug & Perf

Mississippi Lime



**Pump Schedule**  
**Stage 1**

Rate (bpm):		100		Est. Pressure (psi):		2,500			
Stage	Volume (gals)	Prop Conc (ppg)	Fluid Type	Proppant Type & Mesh	Lbs Per Stage	Slurry BBLs	Cum. BBLs	Stage Time	Lbs per Minute
1	75,000			PAD		1,785.7	1,785.7	17.86	#DIV/0!
2	21,000	0.10	Slickwater	30/50 White	2,100	502.3	2,288.0	5.02	418
3	25,000	0.20	Slickwater	30/50 White	5,000	600.7	2,888.7	6.01	832
4	28,000	0.30	Slickwater	30/50 White	8,400	675.8	3,564.4	6.76	1243
5	30,000	0.40	Slickwater	30/50 White	12,000	727.3	4,291.8	7.27	1650
6	30,000	0.50	Slickwater	30/50 White	15,000	730.6	5,022.3	7.31	2053
7	30,000	0.60	Slickwater	30/50 White	18,000	733.8	5,756.2	7.34	2453
8	30,000	0.70	Slickwater	30/50 White	21,000	737.1	6,493.2	7.37	2849
9	30,000	0.80	Slickwater	30/50 White	24,000	740.3	7,233.6	7.40	3242
10	26,000	0.90	Slickwater	30/50 White	23,400	644.5	7,878.0	6.44	3631
11	23,000	1.00	Slickwater	30/50 White	23,000	572.6	8,450.6	5.73	4017
12	7,000	1.50	Slickwater	16/30 Resin Coated	10,500	178.1	8,628.7	1.78	5897
Flush	6,300		Slickwater			150.0	8,778.7	1.50	
	500		Acid	15% FE		11.9	8,790.6	0.12	
Displace	4,800		Slickwater			114.3	8,904.9	1.14	
366,100 Gals. Pumped					162,400	Lbs. Total Proppant Pumped			
30,000 Gals. Tank Bottoms					8,904.9	Bbls. Total Slurry Pumped			
396,100 Gals. Total Required					89.05	Minutes Total Time Elapsed			

% PAD                      20.76%

**Stage 2**

Rate (bpm):		100		Est. Pressure (psi):		2,500			
Stage	Volume (gals)	Prop Conc (ppg)	Fluid Type	Proppant Type & Mesh	Lbs Per Stage	Slurry BBLs	Cum. BBLs	Stage Time	Lbs per Minute
	1,500		Acid	15% FE		35.7	35.7	0.36	
1	75,000			PAD		1,785.7	1,821.4	17.86	
2	21,000	0.10	Slickwater	30/50 White	2,100	502.3	2,323.7	5.02	418
3	25,000	0.20	Slickwater	30/50 White	5,000	600.7	2,924.4	6.01	832
4	28,000	0.30	Slickwater	30/50 White	8,400	675.8	3,600.2	6.76	1243
5	30,000	0.40	Slickwater	30/50 White	12,000	727.3	4,327.5	7.27	1650
6	30,000	0.50	Slickwater	30/50 White	15,000	730.6	5,058.0	7.31	2053
7	30,000	0.60	Slickwater	30/50 White	18,000	733.8	5,791.9	7.34	2453
8	30,000	0.70	Slickwater	30/50 White	21,000	737.1	6,529.0	7.37	2849
9	30,000	0.80	Slickwater	30/50 White	24,000	740.3	7,269.3	7.40	3242
10	26,000	0.90	Slickwater	30/50 White	23,400	644.5	7,913.8	6.44	3631
11	23,000	1.00	Slickwater	30/50 White	23,000	572.6	8,486.3	5.73	4017
12	7,000	1.50	Slickwater	16/30 Resin Coated	10,500	178.1	8,664.4	1.78	5897
13							8,664.4		#DIV/0!
Flush	6,300		Slickwater			150.0	8,814.4	1.50	#DIV/0!
361,300 Gals. Pumped					162,400	Lbs. Total Proppant Pumped			
30,000 Gals. Tank Bottoms					8,814.4	Bbls. Total Slurry Pumped			
391,300 Gals. Total Required					88.14	Minutes Total Time Elapsed			

Customer <b>LASO ENERGY</b>	Lease No.	Date <b>8/12/13</b>
Lease <b>McCLAREN B</b>	Well # <b>1</b>	
Field Order # <b>04924 A</b>	Station <b>PRATT, KS</b>	Casing <b>5 1/2</b>
Type Job <b>2 STAGE Plug &amp; PERF</b>	Depth	County <b>Kiowa</b>
	Formation <b>MISSISSIPPI LIMESTONE</b>	State <b>KS</b>
	Legal Description <b>6-30S-18W</b>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2 15.5</b>	Tubing Size	Shots/Ft <b>1</b>	<b>37 HOLES</b>	Acid <b>500 GALLON 15% FE</b>		RATE	PRESS	ISIP <b>261</b>
Depth	Depth	From <b>5087</b>	To <b>5111</b>	Pre Pad	Max <b>100.3</b>	<b>1802</b>	5 Min. <b>214</b>	
Volume <b>123.1</b>	Volume	From	To	Pad <b>75000 GALLON SACKWATER</b>	Min <b>99.9</b>	<b>1468</b>	10 Min. <b>173</b>	
Max Press <b>2520</b>	Max Press	From	To	Frac <b>28000 GALLON</b>	Avg <b>100</b>	<b>1500</b>	15 Min. <b>131</b>	
Well Connection <b>BRG HEAD</b>	Annulus Vol.	From	To	<b>SACKWATER</b>	HHP Used		Annulus Pressure	
Plug Depth <b>539</b>	Packer Depth	From	To	Flush <b>11350 GALLON SACKWATER</b>	Gas Volume		Total Load <b>8961</b>	

Customer Representative <b>BRUCE KESLO</b>	Station Manager <b>KEVIN CORDLEY</b>	Treater <b>BAILEY/BARGER/ANTHONY/WESTERMAN</b>
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Service Units	<b>21643</b>	<b>38950</b>	<b>38910</b>	<b>78868</b>	<b>19869</b>	<b>21959</b>	<b>19862</b>	<b>36242</b>	<b>175715</b>	<b>19901</b>	<b>20119</b>
Driver Names	<b>TW</b>	<b>MARK</b>	<b>BAILEY</b>	<b>JAKE</b>	<b>KAISER</b>	<b>CHUCK</b>		<b>JOHN</b>	<b>SCOTT</b>	<b>JAMES</b>	<b>RYAN</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Notes
7:47	3502				7:00AM ON LOCATION Service Log SAFETY MEETING SETUP
8:28	0			32	PRIME UP AND PRESSURE TEST
8:29	575		80	27	START 75000 GALLON PAD
8:32	963		164	39	HOLE LOADED
8:33	1100		241	56	ESTABLISH RATE
8:35	1360		340	83	INCREASE RATE
8:37	1785		486	100.1	INCREASE RATE
8:50	1709		1786	100.1	START 21000 GALLON .1 <sup>st</sup> 30/50
8:51	1709		1909	100.3	.1 <sup>st</sup> 30/50 ON BOTTOM
8:55	1675		2288	100	START 25000 GALLON .2 <sup>nd</sup> 30/50
8:56	1666		2411	100.2	.2 <sup>nd</sup> 30/50 ON BOTTOM
9:01	1636		2889	100.1	START 28000 GALLON .3 <sup>rd</sup> 30/50
9:02	1631		3012	100.1	.3 <sup>rd</sup> 30/50 ON BOTTOM
9:08	1612		3564	100	START 30000 GALLON .4 <sup>th</sup> 30/50
9:09	1612		3687	100.2	.4 <sup>th</sup> 30/50 ON BOTTOM
9:15	1588		4292	100.2	START 30000 GALLON .5 <sup>th</sup> 30/50
9:16	1582		4485	100	.5 <sup>th</sup> 30/50 ON BOTTOM
9:23	1577		5022	100.1	START 30000 GALLON .6 <sup>th</sup> 30/50
9:24	1519		5145	100.1	.6 <sup>th</sup> 30/50 ON BOTTOM
9:30	1521		5756	99.9	START 30000 GALLON .7 <sup>th</sup> 30/50
9:31	1519		5879	100.2	.7 <sup>th</sup> 30/50 ON BOTTOM

STAGE 1

## TREATMENT REPORT

Customer <i>LASSO ENERGY</i>	Lease No.	Date <i>8/12/13</i>	
Lease <i>McCLAREN B</i>	Well # <i>1</i>		
Field Order # <i>08929 A</i>	Station <i>PRATT, KS</i>	Casing <i>5 1/2</i>	Depth
Type Job <i>2 STAGE PLUG &amp; PERFOR</i>	Formation <i>MISSISSIPPI</i>	County <i>KIOWA</i>	State <i>KS</i>
		Legal Description <i>6-30S-18W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2 15.5</i>	Tubing Size	Shots/Ft <i>1</i>	<i>37 HOLES</i>	Acid <i>500 GALLON 15% FE</i>	RATE	PRESS	ISIP	<i>261</i>
Depth	Depth	From <i>5087</i>	To <i>5171</i>	Pre Pad	Max <i>100.3</i>	<i>1802</i>	5 Min.	<i>214</i>
Volume <i>123.1</i>	Volume	From	To	Pad <i>75000 GALLON SLICKWATER</i>	Min <i>99.9</i>	<i>14168</i>	10 Min.	<i>173</i>
Max Press <i>2500</i>	Max Press	From	To	Frac <i>280000 GALLON SLICKWATER</i>	Avg <i>100</i>	<i>1500</i>	15 Min.	<i>131</i>
Well Connection <i>TRAP HEAD</i>	Annulus Vol.	From	To	<i>SLICKWATER</i>	HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush <i>11350 GALLON SLICKWATER</i>	Gas Volume		Total Load <i>8961</i>	

Customer Representative <i>BRUCE KELSO</i>	Station Manager <i>KEVIN CORALEY</i>	Treater <i>BAILEY/BADGER/ANTHONY/WESTERMAN</i>
Service Units <i>25909 22029</i>	<i>37710 37715</i>	<i>37715 37715</i>
Driver Names <i>BILLY TOM</i>	<i>DAVE MATT</i>	<i>NICK COLT</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:28	1499		6493	100.2	START 30000 GALLON .8" 30/50
9:39	1502		6616	100.1	.8" 30/50 ON BOTTOM
9:45	1515		7233	100.3	START 26000 GALLON .9" 30/50
9:46	1498		7356	100.3	.9" 30/50 ON BOTTOM
9:52	1496		7878	100.1	START 23000 GALLON 1" 30/50
9:53	1472		8001	100.4	1" 30/50 ON BOTTOM
9:57	1545		8450	100.1	START 7000 GALLON 1.5" 16/30 RESIN
9:59	1520		8574	100.2	1.5" 16/30 RESIN ON BOTTOM
10:00	1549		8683	100.1	START 6300 GALLON FLUSH
10:01	426		8806	43.8	FLUSH ON BOTTOM REDUCE RATE
10:03	464		8833	12.2	START 500 GALLON 15% FE ACID
10:04	439		8845	13.3	START 5050 GALLON FLUSH
10:13	261		8961		SHUTDOWN STAGE COMPLETE



Date: 12-Aug-13

Well Name:	Location:	Customer Rep:	Field Order #
MCCLAREN B#1	6-30S-18W	BRUCE KELSO	08929A
Stage:	Formation:	Treat Via:	Allowable Pressure Tbg Csg Well Type:
2	MISSISSIPPI	CASING	2,800 OIL
County:	State:	Well Age:	PackerType: PackerDepth: Csg Size:
KIOWA	KS	NEW	5.5
Type Of Service:	2 STAGE PLUG AND PERF		
Customer Name:	LASSO ENERGY, LLC		
Address:			
Remarks:			
	Csg Depth	Tbg Size:	Tbg Depth: Liner Size:
	Liner Depth:	Liner Top:	Liner Bot: Total Depth:
	Open Hole:	Csg Vol:	BHT:
			120
	Perf Depths:	Perfs:	TotalPerfs:
	5031	5075	35

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	FOAM/FLD (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
11:26	0.0		640		PSI TEST PLUG			
12:49	0.0		3608		PSI TEST			
12:54	0.0		21		ST ACID		1,500	36.0
12:57	10.2		-11		ST PAD		75,000	1,786.0
13:01	31.4		261		ACID ON BOTTOM			
13:04	44.6		673		INCREASE RATE			
13:05	61.1		910		INCREASE RATE			
13:07	83.6		1563		INCREASE RATE			
13:09	99.5		2068		INCREASE RATE			
13:21	99.9		2075		ST .1#	2,100	21,000	502.0
13:23	99.7		2073		ON BOTTOM			
13:27	99.6		2287		ST .2#	5,000	25,000	601.0
13:28	99.7		2184		ON BOTTOM			
13:33	99.7		2237		ST .3#	8,400	28,000	676.0
13:34	99.7		2248		ON BOTTOM			
13:40	99.7		2275		ST .4#	12,000	30,000	727.0
13:41	99.6		2265		ON BOTTOM			
13:47	99.6		2204		ST .5#	15,000	30,000	731.0
13:48	99.6		2120		ON BOTTOM			
13:54	99.5		2038		ST .6#	18,000	30,000	734.0
13:56	99.6		2025		ON BOTTOM			
14:02	99.8		2008		ST .7#	21,000	30,000	737.0
14:03	99.8		2008		ON BOTTOM			
14:09	99.8		1978		ST .8#	24,000	30,000	740.0

Customer Acknowledgement:	Service Rating:	Treater:	<b>PRODUCTS USED</b>
	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory	JUSTIN BAILEY	



Date: 12-Aug-13

14:11	99.7	1975	ON BOTTOM			
14:17	99.9	1950	ST .9#	23,400	26,000	645.0
14:18	99.4	1926	ON BOTTOM			
14:24	100.0	1973	ST 1#	23,000	23,000	648.0
14:24	100.2	2019	ON BOTTOM			
14:30	100.1	2107	ST 1.5# RESIN	10,500	7,000	205.0
14:31	99.3	2060	1.5# RESIN ON BOTTOM			
14:32	99.1	1989	ST FLUSH		6,300	156.0
14:34	0.0	917	SHUT DOWN JOB COMPLETE			
14:39	0.0	531	5 MIN			
14:43	0.0	474	10 MIN			
14:49	0.0	433	15 MIN			
<b>Total:</b>				162,400	362,800	8,924.0

**Summary**

Max Fl. Rate	Avg Fl. Rate	Max Psi	Avg Psi
100.2	90.1	3,614	1,840

Customer Acknowledgement:

Service Rating:

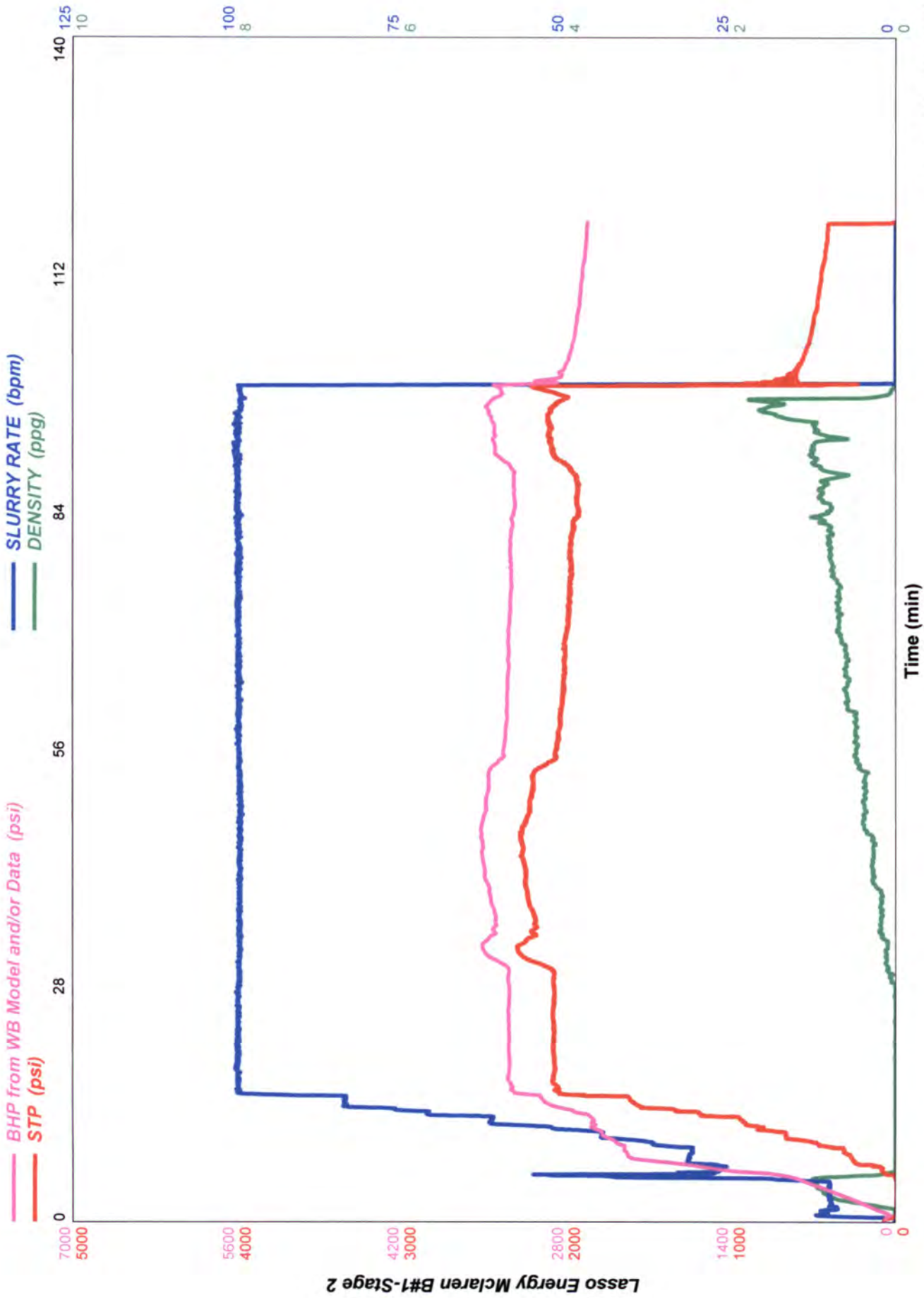
- Satisfactory  
 Unsatisfactory

Treater:

JUSTIN BAILEY

**PRODUCTS USED**

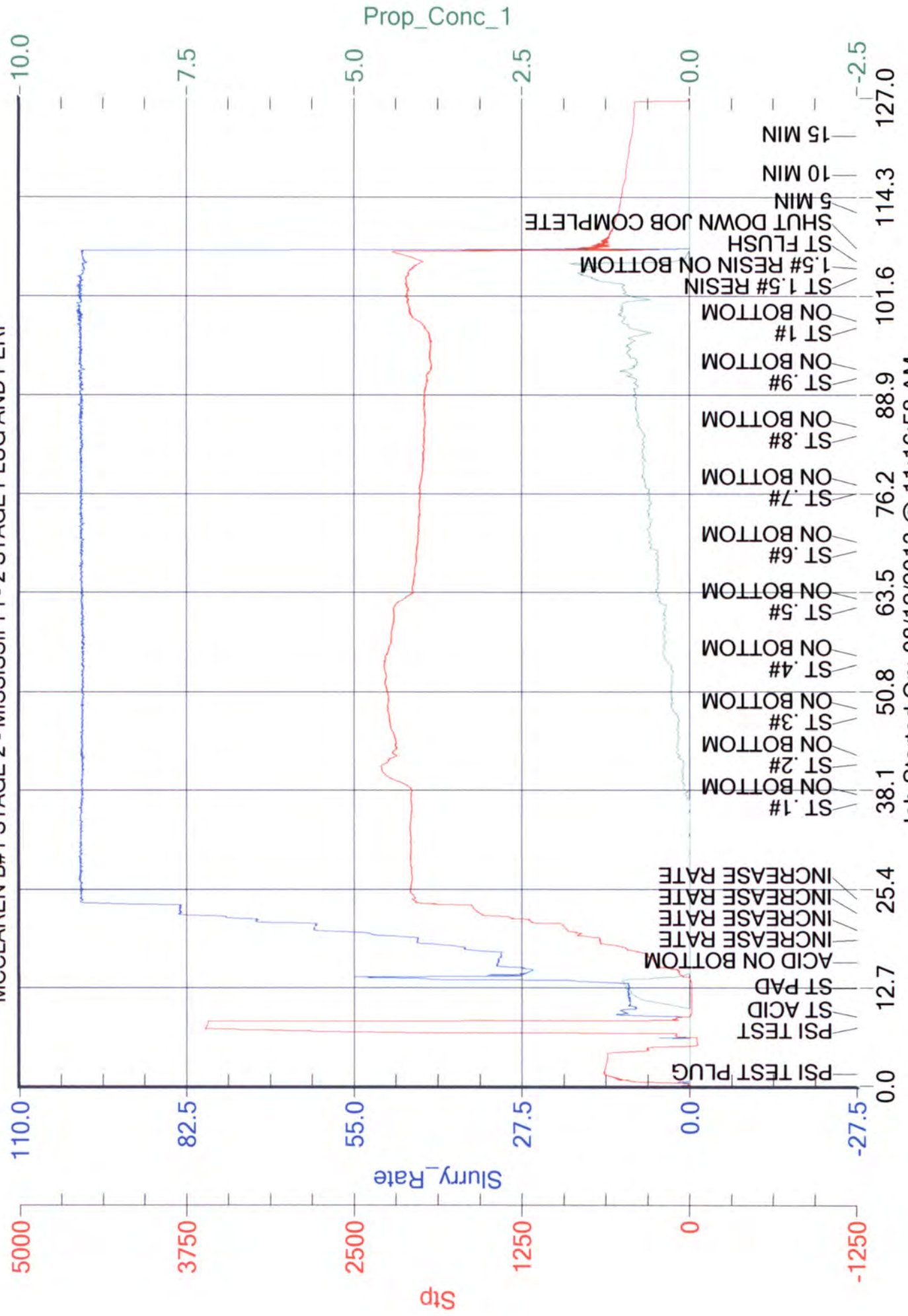
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August 12, 2013

# LASSO ENERGY

MCCLAREN B#1 STAGE 2 - MISSISSIPPI - 2 STAGE PLUG AND PERF



Job Started On: 08/12/2013 @ 11:16:58 AM



**Lasso Energy, LLC.**

McClaren B #1

Kiowa County, KS Sec. 6-30S-18W

2 Stage Plug & Perf

Mississippi Lime



**Pump Schedule**  
**Stage 1**

Rate (bpm):		100		Est. Pressure (psi):		2,500			
Stage	Volume (gals)	Prop Conc (ppg)	Fluid Type	Proppant Type & Mesh	Lbs Per Stage	Slurry BBLS	Cum. BBLS	Stage Time	Lbs per Minute
1	75,000			PAD		1,785.7	1,785.7	17.86	#DIV/0!
2	21,000	0.10	Slickwater	30/50 White	2,100	502.3	2,288.0	5.02	418
3	25,000	0.20	Slickwater	30/50 White	5,000	600.7	2,888.7	6.01	832
4	28,000	0.30	Slickwater	30/50 White	8,400	675.8	3,564.4	6.76	1243
5	30,000	0.40	Slickwater	30/50 White	12,000	727.3	4,291.8	7.27	1650
6	30,000	0.50	Slickwater	30/50 White	15,000	730.6	5,022.3	7.31	2053
7	30,000	0.60	Slickwater	30/50 White	18,000	733.8	5,756.2	7.34	2453
8	30,000	0.70	Slickwater	30/50 White	21,000	737.1	6,493.2	7.37	2849
9	30,000	0.80	Slickwater	30/50 White	24,000	740.3	7,233.6	7.40	3242
10	26,000	0.90	Slickwater	30/50 White	23,400	644.5	7,878.0	6.44	3631
11	23,000	1.00	Slickwater	30/50 White	23,000	572.6	8,450.6	5.73	4017
12	7,000	1.50	Slickwater	16/30 Resin Coated	10,500	178.1	8,628.7	1.78	5897
Flush	6,300		Slickwater			150.0	8,778.7	1.50	
	500		Acid	15% FE		11.9	8,790.6	0.12	
Displace	4,800		Slickwater			114.3	8,904.9	1.14	
366,100 Gals. Pumped					162,400	Lbs. Total Proppant Pumped			
30,000 Gals. Tank Bottoms					8,904.9	Bbls. Total Slurry Pumped			
396,100 Gals. Total Required					89.05	Minutes Total Time Elapsed			

% PAD                      20.76%

**Stage 2**

Rate (bpm):		100		Est. Pressure (psi):		2,500			
Stage	Volume (gals)	Prop Conc (ppg)	Fluid Type	Proppant Type & Mesh	Lbs Per Stage	Slurry BBLS	Cum. BBLS	Stage Time	Lbs per Minute
	1,500		Acid	15% FE		35.7	35.7	0.36	
1	75,000			PAD		1,785.7	1,821.4	17.86	
2	21,000	0.10	Slickwater	30/50 White	2,100	502.3	2,323.7	5.02	418
3	25,000	0.20	Slickwater	30/50 White	5,000	600.7	2,924.4	6.01	832
4	28,000	0.30	Slickwater	30/50 White	8,400	675.8	3,600.2	6.76	1243
5	30,000	0.40	Slickwater	30/50 White	12,000	727.3	4,327.5	7.27	1650
6	30,000	0.50	Slickwater	30/50 White	15,000	730.6	5,058.0	7.31	2053
7	30,000	0.60	Slickwater	30/50 White	18,000	733.8	5,791.9	7.34	2453
8	30,000	0.70	Slickwater	30/50 White	21,000	737.1	6,529.0	7.37	2849
9	30,000	0.80	Slickwater	30/50 White	24,000	740.3	7,269.3	7.40	3242
10	26,000	0.90	Slickwater	30/50 White	23,400	644.5	7,913.8	6.44	3631
11	23,000	1.00	Slickwater	30/50 White	23,000	572.6	8,486.3	5.73	4017
12	7,000	1.50	Slickwater	16/30 Resin Coated	10,500	178.1	8,664.4	1.78	5897
13							8,664.4		#DIV/0!
Flush	6,300		Slickwater			150.0	8,814.4	1.50	#DIV/0!
361,300 Gals. Pumped					162,400	Lbs. Total Proppant Pumped			
30,000 Gals. Tank Bottoms					8,814.4	Bbls. Total Slurry Pumped			
391,300 Gals. Total Required					88.14	Minutes Total Time Elapsed			

Customer <i>LASO ENERGY</i>	Lease No.	Date <i>8/12/13</i>
Lease <i>McCLAREN B</i>	Well # <i>1</i>	
Field Order # <i>089214</i>	Station <i>PRATIKS</i>	Casing <i>15 1/2</i>
Type Job <i>2 STAGE PLUG AND PERF</i>	Formation <i>MISSISSIPPI</i>	Legal Description <i>G-30S-BW</i>
	Depth	County <i>KIOWA</i>
		State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2 15.5</i>	Tubing Size	Shots/Ft <i>1</i>	<i>35 HOLES</i>	Acid <i>1500 GALLON 15% FE</i>		RATE	PRESS	ISIP <i>1997</i>
Depth	Depth	From <i>5031</i>	To <i>5075</i>	Pre Pad	Max <i>100.2</i>	<i>2299</i>	5 Min. <i>534</i>	
Volume <i>120.19</i>	Volume	From	To	Pad <i>75000 GALLON SLICKWATER</i>	Min <i>99.4</i>	<i>1925</i>	10 Min. <i>474</i>	
Max Press <i>2500</i>	Max Press	From	To	Frac <i>28000 GALLON</i>	Avg <i>99.7</i>	<i>2112</i>	15 Min. <i>430</i>	
Well Connection <i>TRAC HEAD</i>	Annulus Vol.	From	To	<i>SLICKWATER</i>	HHP Used		Annulus Pressure	
Plug Depth <i>5082</i>	Packer Depth	From	To	Flush <i>6300 GALLON SLICKWATER</i>	Gas Volume		Total Load <i>8924</i>	

Customer Representative *BRUCE KEISD* Station Manager *KEVIN GORDLEY* Treater *BAILEY/BARBER/ANTHONY/WESTERMAN*

Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:26 AM</i>	<i>639</i>				<i>TEST PLUG</i>
<i>12:49</i>	<i>3620</i>				<i>PRIME UP AND PRESSURE TEST</i>
<i>12:54</i>	<i>0</i>			<i>9</i>	<i>START 1500 GALLON 15% FE ACID</i>
<i>12:58</i>	<i>0</i>		<i>36</i>	<i>10</i>	<i>START 75000 GALLON PAD</i>
<i>12:59</i>	<i>54</i>		<i>72</i>	<i>27</i>	<i>HOLE LOADED</i>
<i>1:03</i>	<i>467</i>		<i>172</i>	<i>36.5</i>	<i>ESTABLISH RATE</i>
<i>1:04</i>	<i>657</i>		<i>210</i>	<i>44</i>	<i>INCREASE RATE</i>
<i>1:05</i>	<i>913</i>		<i>294</i>	<i>60</i>	<i>INCREASE RATE</i>
<i>1:09</i>	<i>2040</i>		<i>593</i>	<i>100</i>	<i>INCREASE RATE</i>
<i>1:22</i>	<i>2076</i>		<i>1821</i>	<i>99.9</i>	<i>START 21000 GALLON .1# 30/50</i>
<i>1:23</i>	<i>2075</i>		<i>1942</i>	<i>99.5</i>	<i>.1# 30/50 ON BOTTOM</i>
<i>1:27</i>	<i>2269</i>		<i>2324</i>	<i>99.6</i>	<i>START 25000 GALLON .2# 30/50</i>
<i>1:28</i>	<i>2186</i>		<i>2444</i>	<i>99.7</i>	<i>.2# 30/50 ON BOTTOM</i>
<i>1:33</i>	<i>2237</i>		<i>2924</i>	<i>99.7</i>	<i>START 28000 GALLON .3# 30/50</i>
<i>1:34</i>	<i>2248</i>		<i>3045</i>	<i>99.7</i>	<i>.3# 30/50 ON BOTTOM</i>
<i>1:40</i>	<i>2269</i>		<i>3600</i>	<i>99.6</i>	<i>START 30000 GALLON .4# 30/50</i>
<i>1:41</i>	<i>2261</i>		<i>3721</i>	<i>99.4</i>	<i>.4# 30/50 ON BOTTOM</i>
<i>1:47</i>	<i>2204</i>		<i>4327</i>	<i>99.5</i>	<i>START 30000 GALLON .5# 30/50</i>
<i>1:48</i>	<i>2120</i>		<i>4448</i>	<i>99.6</i>	<i>.5# 30/50 ON BOTTOM</i>
<i>1:55</i>	<i>2030</i>		<i>5058</i>	<i>99.9</i>	<i>START 30000 GALLON .6# 30/50</i>
<i>1:57</i>	<i>2023</i>		<i>5179</i>	<i>99.7</i>	<i>.6# 30/50 ON BOTTOM</i>

STAGE 2

Customer <b>LASCO ENERGY</b>	Lease No.	Date <b>8/12/13</b>
Lease <b>McCLAREN B</b>	Well # <b>1</b>	
Field Order # <b>08929A</b>	Station <b>PRATT KS</b>	Casing <b>5 1/2</b>
Type Job <b>2 STAGE PLUG AND PERF</b>	Formation <b>MISSISSIPPI</b>	Depth
		County <b>BARBER</b>
		State <b>KS</b>
		Legal Description <b>6-305-18W</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2 15.5</b>	Tubing Size	Shots/Ft <b>1</b>		Acid <b>1500 GALLON 15% FE</b>	RATE	PRESS	ISIP <b>797</b>	
Depth	Depth	From <b>5031</b>	To <b>5075</b>	Pre Pad	Max <b>100.2</b>	<b>2299</b>	5 Min. <b>534</b>	
Volume <b>120.19</b>	Volume	From	To	Pad <b>5000 GALLON SLICKWATER</b>	Min <b>99.4</b>	<b>1925</b>	10 Min. <b>474</b>	
Max Press <b>2500</b>	Max Press	From	To	Frac <b>280000 GALLON</b>	Avg <b>99.7</b>	<b>2112</b>	15 Min. <b>430</b>	
Well Connection <b>DRAB HEAD</b>	Annulus Vol.	From	To	Flush <b>6300 GALLON SLICKWATER</b>	HHP Used		Annulus Pressure	
Plug Depth <b>5082</b>	Packer Depth	From	To		Gas Volume		Total Load <b>8924</b>	

Customer Representative <b>BRUCE KEISU</b>	Station Manager <b>KEVIN CORDEY</b>	Treater <b>BAILEY/BARBER/ANTHONY</b>
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Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:02	2003		5792	99.8	START 30000 GALLON 1" 30/50
2:03	2006		5913	99.8	1" 30/50 ON BOTTOM
2:10	1982		6529	99.7	START 30000 GALLON 1.8" 30/50
2:11	1993		6650	99.8	1.8" 30/50 ON BOTTOM
2:17	1951		7269	99.9	START 26000 GALLON 1.9" 30/50
2:18	1923		7360	99.8	1.9" 30/50 ON BOTTOM
2:23	1976		7914	99.9	START 23000 GALLON 1" 30/50
2:25	2043		8034	100.2	1" 30/50 ON BOTTOM
2:30	2116		8562	100	START 7000 GALLON 1.5" 16/50 RESIN
2:31	2060		8682	99.7	1.5" 16/50 RESIN ON BOTTOM
2:32	1987		8767	99.4	START 6300 GALLON FLUSH
2:34	797		8924		SHUTDOWN JOB COMPLETE

THANKS PRATT FIRM CREW



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 08929 A

6-305-180

8-12-13 DATE

TICKET NO.

DATE OF JOB 8-12-13	DISTRICT PRATT KANSAS	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 LLC		LEASE McClallen		WELL NO. 6811					
ADDRESS		COUNTY KEOWNIA		STATE KANSAS					
CITY		STATE		SERVICE CREW PRATT FRAC					
AUTHORIZED BY BRUCE VELLO		JOB TYPE: 2 stage Pump & Perf							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
21643	7	36742 36749	7	37710 36955	7	8-			
38470/19914	7	21954	7	38785 37715	7	ARRIVED AT JOB	8-12-13	AM PM	7:00
38450	7	19882 21088	7	38114 37581	7	START OPERATION	8-12-13	AM PM	7:47
78868	7	14901 13472	7	19887 19849	7	FINISH OPERATION	8-12-13	AM PM	2:49
75775	7	20419 14457	7	78419 70338	7	RELEASED	8-12-13	AM PM	4:00
19869	7	25907 22029	7	19821 19748	7	MILES FROM STATION TO WELL			40

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:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
AK325	15% HCl Acid	Gal	7000		
AK342	FE Acid Conversion	Gal	7000		
C201	CIA-1 EP high Temp Acid Inhibitor	Gal	4		
C1511	FR-7 Oilfield brines or fresh water	Gal	559		
C2306	Plevsurf 210 F	Gal	200		
C704	Claymax KCl Substitute	Gal	399		
C607	Bio-72 liquid Biocide	Gal	80		
C505	Playgel biocurec XPA for Sl. ch. water	Gal	146		
D504	Activator 730	Gal	193		
PK209	30150 mesh Northern White Sand, lbs	wt	3038		
P402	Resin Coated 16/30	wt	210		
E101	Heavy Equip mileage	mi	690		
E100	Unit Mileage Chig Pick ups small Vers	mi	80		
E113	Prop + Bulk Delivery chigs per ton mi	Tr	6496		
E434	1500HHP Triplex frac Pump Chig	cu	1		
E435	1800 HHP Triplex frac Pump Chig	cu	1		
E437	2250HHP Quintuplex frac Pump Chig	cu	5		
B309	Blender 91-100 BPM	cu	1		
E707	4" frac Valve Rental	Job	1		

SUB TOTAL

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE  
BASIC - PRATT  
WESTERMAN - JAMES

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:  
BASIC

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



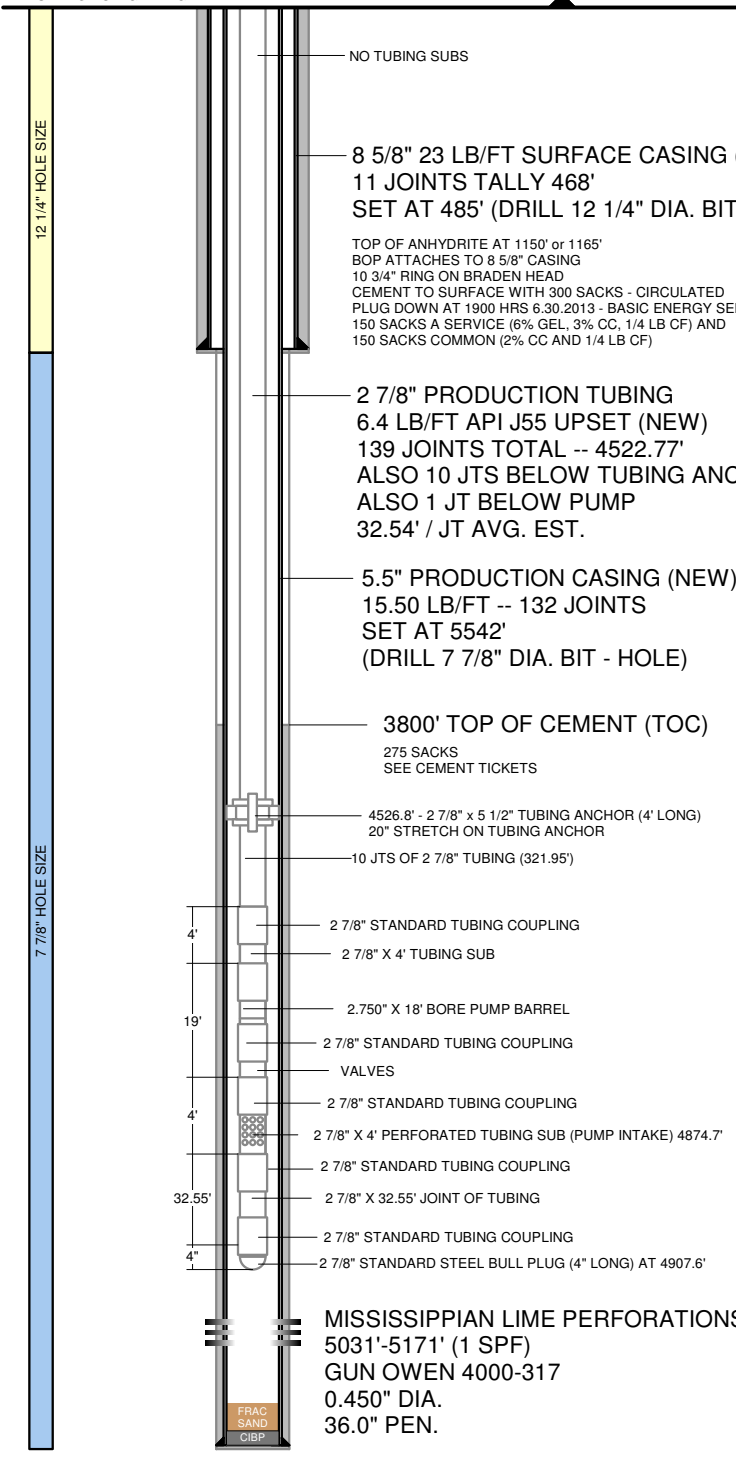
SURFACE TEMP: 90 DEG F

K.B.: 13'

G.L. ELEVATION 2235' (SHL)

SET TOP CLPG 12" AGL

5 1/2" X 2 7/8" TUBING HEAD



NOTES:

PUMPING UNIT: C - 456 -320 - 144 (104" SURFACE STROKE)  
CONVENTIONAL SENTRY UNIT (NEW)  
50HP ELECTRIC MOTOR WITH 50 HP SPOCC VFD  
VFD INSTALLED  
RUN TIME: 24 HRS PER DAY  
1.25" X 25' POLISHED ROD WITH LINER ASSEMBLY  
2', 4', 4" AND 8' PONY RODS ON TOP (7/8" N97 GRADE)  
1.50" X 22' HARD LINED POLISHED ROD LINER WITH SEAL  
85 - 7/8" GRADE N97 SUCKER RODS ON TOP  
103 - 3/4" GRADE N97 SUCKER RODS ON BOTTOM  
4 - 1.50" X 25' SINKER BAR ON TOP OF PUMP  
ONE 4' X 7/8" GRADE N97 PONY ROD ON BOTTOM (TOP OF PUMP)  
SPEED RANGE: 4 TO 13 SPM  
MAX. SPEED: 13 SPM  
CURRENT SPEED: 10 SPM  
9500 TO 10,000 LBS OF TOTAL ROD WEIGHT  
MAX. DISPLACEMENT: 800+ BPD (2.75" BORE PUMP)  
TUBING ANCHOR SET IN HOLE

TUBULARS

PURPOSE	CONDUCTOR	SURFACE	INTERMEDIATE	PRODUCTION	PROD. TUBING
SIZE	13 3/8"	8 5/8"		5 1/2"	2 7/8"
WEIGHT	NONE	2,946 PSIG	NONE	15.5 LB/FT	6.40 LB/FT
GRADE	NONE	J-55	NONE	J-55	J-55
BURST	NONE	24.0 LB/FT	NONE	4,812 PSIG	7,265 PSIG
COLLAPSE	NONE	381,395 LBF	NONE	4,043 PSIG	7,676 PSIG
YIELD	NONE	1,434 PSIG	NONE	248,274 LBF	99,661 LBF
CAPACITY	NONE	0.064 BBL/FT	NONE	0.024 BBL/FT	0.006 BBL/FT
THICKNESS	NONE	0.2640"	NONE	0.2750"	0.2170"
ID	NONE	8.0970"	NONE	4.9500"	2.4410"
DRIFT ID	NONE	7.9720"	NONE	4.8250"	2.3470"
AREA	NONE	51.49 IN2	NONE	19.42 IN2	4.68 IN2
SETTING DEPTH	NONE	468'	NONE	5,542'	4900' IN WELL
LENGTH	NONE	468'	NONE	5,542'	NEED 5515'
FOB	NONE	CHASE, KS	NONE	CHASE, KS	CHASE, KS
COST	NONE	\$ / FT	NONE	\$ / FT	\$ / FT

DATE	12/06/2012
APPROVED BY	B. KELSO
AFE	915
API No.	15097217590000
GL ELEVATION	2235'
KB	13'
KB ELEVATION	2248'
RIG	KELSO

MISSISSIPPIAN LIME PERFORATIONS:

STAGE ONE FRAC ON 08/12/2013 AND PERFORATING ON 07/22/2013  
37 PERFORATIONS FROM 5087 TO 5171 IN THE LOWER SECTION OF THE MISSISSIPPIAN LIME

PERFORATION DETAIL:  
5087, 5088, 5089, 5090, 5091, 5092, 5093, 5094, 5095, 5096, 5097, 5098, 5099, 5105, 5113, 5125, 5127, 5129, 5130, 5132, 5134, 5135, 5140, 5142, 5144, 5146, 5148, 5151, 5152, 5154, 5155, 5156, 5157, 5158, 5162, 5167, 5171

TOTAL CROSS-SECTIONAL AREA: 5.884 IN2 (WIITH 37 - 0.450" HOLES)

PLUG BETWEEN STAGES SET ON 08/12/2013  
5 1/2" 15.50 LB/FT CIBP SET AT 5082 (IF THERE IS NO CASING COLLAR THERE)

STAGE TWO FRAC ON 08/12/2013  
35 PERFORATIONS FROM 5031 TO 5075 IN THE UPPER SECTION OF THE MISSISSIPPIAN LIME

PERFORATION DETAIL:  
5031, 5032, 5033, 5034, 5035, 5036, 5037, 5038, 5039, 5040, 5041, 5042, 5043, 5044, 5045, 5046, 5047, 5051, 5052, 5053, 5054, 5055, 5056, 5057, 5058, 5059, 5062, 5063, 5064, 5065, 5066, 5067, 5073, 5074, 5075

TOTAL CROSS-SECTIONAL AREA: 5.567 IN2 (WIITH 35 - 0.450" HOLES)

DOWN HOLE SUCKER ROD PUMP:  
2.75" TUBING PUMP  
PUMP LENGTH: 18' (NICARD AND SS)  
PUMP BBL ON TUBING  
4' X 7/8" PONY ROD ON TOP OF PUMP  
PUMP INTAKE DEPTH: 4874'  
PUMP IS SETTING 157' ABOVE PERFS. EST.

PBTD: 5515' MD TVD  
RTD: 5570' MD TVD  
LTD: 5566' MD TVD  
DOWNHOLE TEMP: 150 DEG F

**McCLAREN B #1**  
KIOWA COUNTY, KANSAS  
06-T30S-R18W  
SHL: 330 FNL, 330 FEL  
BHL: 330 FNL, 330 FEL  
NICHOLS FIELD



Customer	LASSO ENERGY	Lease No.		Date	7-24-13		
Lease	M'CHARON B	Well #	1				
Field Order #	8731	Station	PRATT KS	Casing	5 1/2	Depth	
Type Job	ACW	Formation		County	RIOWA	State	KS
				Legal Description	E-305 18W		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME					
Casing Size	5 1/2	Tubing Size	2 7/8	Shots/Ft		Acid	2050 16 1/2 HCl	RATE	PRESS	ISIP	
Depth		Depth		From	5087	To	5097	Pre Pad	Max	5 Min.	
Volume		Volume		From	SCATTERED	To		Pad	Min	10 Min.	
Max Press		Max Press		From	5105	To	5171	Frac	Avg	15 Min.	
Well Connection		Annulus Vol.		From		To		HHP Used		Annulus Pressure	
Plug Depth		Packer Depth		From		To		Flush	2 1/2 KCL	Gas Volume	Total Load

Customer Representative	BRUCE	Station Manager	GORDON	Treater	M'COIRE
Service Units	30316	33703	17858		
Driver Names	M'COIRE	PICKLE			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
810					CON LOCATION / SAFETY INTG
					RIG UP
857					START ACW TO PICKLE
900			49		ACID IN ON FLUSH
915			30	34	ACW ON BOTTOM UP RATE
916		265	34	34	PRESSURE
918		427	40	34	CIRCULATION TO PIT OUT OF 113075
1010			113	34	ACW TO PIT
1012			113		ACW (CHECK) SHUT DOWN
1045		2550			PRESSURE TEST
					DROP VALVES
1108		1460/110			TEST TOOLS
1108		705		13	SPOT ACW
1137			309		ACID SPOTTED SHUT DOWN
					HUNT HOLES
1138					1 BLANK
1139		365		13	5155 5154 TREAT
1140		811		13	5154 5153 "
1141		757		13	5153 5152 "
1142		1602		13	5152 5151 "
1144		2100		-	5150 5150 BLANK
1145		638		13	5150 5149 TREAT

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer	LASSO ENERGY		Lease No.			Date	7.24.13	
Lease	M'CHARON B		Well #	1				
Field Order #	Station	Casing	Depth	County	State			
8731	PRAT 17 K	5 1/2		KIOWA	KS			
Type Job	ACNW			Formation	Legal Description			
					6302 134			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2	2 7/8			2050 gal 100			Max	5 Min.
Depth	Depth	From	To	Pre Pad			Min	10 Min.
		5087	5099	MCA			Avg	15 Min.
Volume	Volume	From	To	Pad			HHP Used	Annulus Pressure
30		5105	5171	Frac			Gas Volume	Total Load
Max Press	Max Press	From	To	Flush				
				2 1/2 KLL				
Well Connection	Annulus Vol.	From	To					
Plug Depth	Packer Depth	From	To					

Customer Representative	BRUCE		Station Manager	CORRIGAN		Treater	M'GURK		
Service Units	30316	33703	19558						
Driver Names	M'GURK	PIKLE							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1146		624		5149	TREAT
1148		2000		5148	BLANK
1149		2000		5147	"
1151		951		5146	TREAT
1152		2000		5145	BLANK
1153		513		5144	TREAT
1154		2000		5143	BLANK
1155		805		5142	TREAT
1156		2000		5141	BLANK
1157		783		5140	TREAT
1158		2000		5139	BLANK
1159		867		5138	TREAT
1200		2000		5137	BLANK
1201		2000		5136	"
1202		2000		5135	"
1203		901		5134	TREAT
1204		820		5133	"
1205		2000		5132	BLANK
1206		735		5131	TREAT
1207		2000		5130	BLANK
1208		915		5129	TREAT
1209		2000		5128	BLANK



Customer <i>HASO ENRG</i>	Lease No.	Date <i>7.24.13</i>
Lease <i>MICLAREN B</i>	Well # <i>1</i>	
Field Order # <i>9251</i>	Station <i>PRATT KS</i>	Casing
		Depth
Type Job <i>ACNW</i>	Formation	County <i>KIOWA</i>
		State <i>KS</i>
		Legal Description <i>E30-18</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid <i>2050 10% MCA</i>	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush <i>2% KC</i>	Gas Volume		Total Load	

Customer Representative	Station Manager	Treater
Service Units		
Driver Names		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1210		893		5127	TREAT
1211		520		5126	"
1212		2000		5125	BLANK
1214		587		5124	TREAT
1215		2000		5123	BLANK
1216		2000		5122	"
1217		2000		5121	"
1218		2000		5120	"
1218		2000		5119	"
1219		2000		5118	"
1220		2000		5117	"
1233		2000		5116	"
1235		2000		5115	"
1236		2000		5114	"
1237		2000		5113	"
1238		537		5112	TREAT
1239		2000		5111	BLANK
1240		2000		5110	"
1241		2000		5109	"
1242		2000		5108	"
1243		2000		5107	"
1244		2000		5106	"

Customer <b>LASSO ENERGY</b>		Lease No.		Date <b>7-24-13</b>	
Lease <b>M'CLAREN B</b>		Well # <b>1</b>			
Field Order # <b>8731</b>	Station <b>PRATT</b>	Casing <b>12</b>	Depth	County <b>KIOWA</b>	State <b>KJ</b>
Type Job <b>ACNW</b>	Formation		Legal Description <b>2-30-18</b>		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager	Treater
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Service Units	<b>30316</b>	<b>33203</b>	<b>17858</b>						
Driver Names	<b>MCC</b>	<b>PICKER</b>							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1245		2000		5105	BLANK
1246		2000		5104	"
1247		2000		5103	"
1247		2000		5102	"
1248		2000		5100	"
1250		2000		5100	"
1251		1113		5099	TRAP
1254		768		5098	"
1255		668		5097	"
1256		709		5096	"
1259		867		5095	"
1300		907		5094	"
1301		826		5093	"
1302		880		5092	"
1304		738		5091	"
1305		764		5090	"
1306		754		5089	"
1308		562		5088	"
1309		798		5087	"
1310		2100		5086	BLANK

Customer <i>LASSO EN-964</i>	Lease No.	Date <i>7-24-13</i>	
Lease <i>MCLAREN B</i>	Well # <i>1</i>	County <i>KLING</i>	State <i>KS</i>
Field Order #	Station	Casing	Depth
Type Job		Formation	Legal Description <i>2-30-18</i>

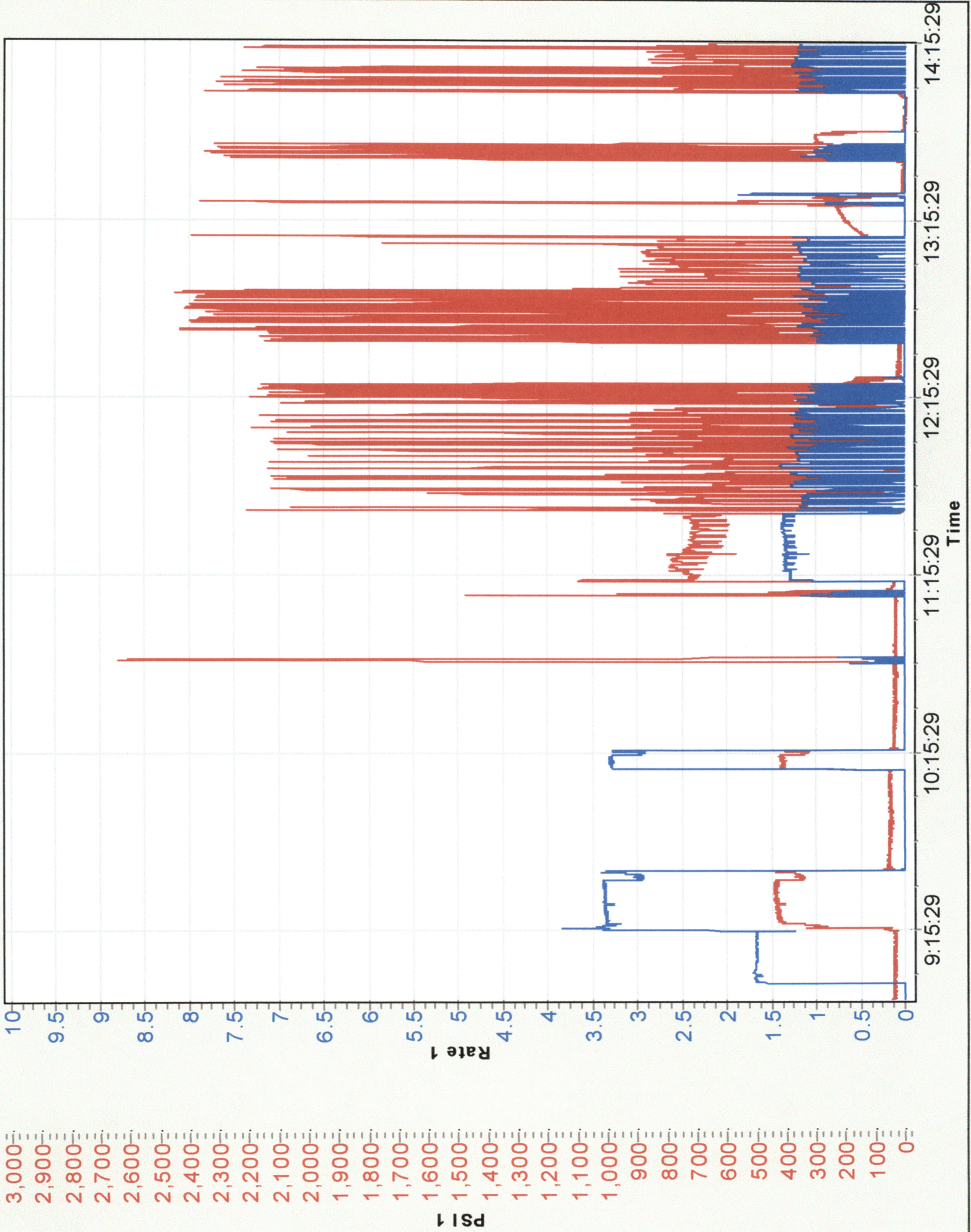
PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
		From	To	<i>2050 106</i>			5 Min.	
Depth	Depth			Pre Pad <i>MCA</i>	Max			
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush <i>2% KCl</i>	Gas Volume		Total Load	

Customer Representative <i>BRUCE</i>	Station Manager <i>COOPER</i>	Treater <i>M. COOPER</i>
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Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log	
1311		2000			8 BLANKS RUN 3 SHOTS	
1359		2000			BLANK	
1400		675		10	5171 TREAT	
					5170-5167 BLANK	
1403		689			5166 TREAT	
1405		2000			5165 BLANK	
1405		2000			5164 "	
1406		2000			5163 "	
1407		796			5162 "	
1408		661			5161 TREAT	
1409		897			5160 "	
1410		801			5159 "	
1412		866			5158 "	
1413		2000			5157 BLANK	
1414		827			5156 TREAT	
					JOB COMPLETE	
					THANK YOU	

# Lasso Energy McClaren B 1









**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 08525 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 7/25/13 DISTRICT: Pratt				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 LLC				LEASE: McCloren B		WELL NO. 1			
ADDRESS:				COUNTY: Kiowa		STATE: KS			
CITY: STATE:				SERVICE CREW: Pratt Acid					
AUTHORIZED BY:				JOB TYPE: HCNW					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19894	3					ARRIVED AT JOB	7/25/13	AM	0830
33703	3					START OPERATION		AM	1027
19858	3					FINISH OPERATION		AM	1046
						RELEASED		AM	1100
						MILES FROM STATION TO WELL			45

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
E100	1 UNIT	mi	40		
E101	1 UNIT	mi	40		
E300	Acid Pump	EO	1		
S003	Supervisor	EO	1		
AK324	10% HCL	gal	3000		
HSK341	NE Acid	gal	3000		
HSK342	FF Acid	gal	3000		
C204	CIRIER	gal	6		
C704	Claymax	gal	5		

SUB TOTAL 6019 20

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO.

# LOG-TECH OF KANSAS, INC.

86 SW 10 AVE.  
GREAT BEND, KANSAS 67530  
(620) 792-2167

INVOICE

## 7547

Date 7-22-2013

CHARGE TO: Lasso Energy  
 ADDRESS \_\_\_\_\_  
 R/A SOURCE NO. \_\_\_\_\_ CUSTOMER ORDER NO. \_\_\_\_\_  
 LEASE AND WELL NO. McClaren 'B' - #1 FIELD Nichols  
 NEAREST TOWN Greensburg COUNTY King STATE K.S.  
 SPOT LOCATION 370' FNL 330' FEL SEC. 6 TWP. 30s RANGE 18w  
 ZERO 17' AGL CASING SIZE 5 1/2 WEIGHT \_\_\_\_\_  
 CUSTOMER'S T.D. 5515' LOG TECH #53 FLUID LEVEL 2120'  
 ENGINEER Lance Gregg OPERATOR S. Walcher, Jr. Santos

PERFORATING				
Description	No. Shots	From	Depth To	Amount
<u>OPEN HSC (4000-317)</u>	<u>13</u>	<u>5087</u>	<u>5099</u>	
<u>7- DET. 3050-006</u>	<u>1</u>		<u>5105</u>	
	<u>1</u>		<u>5113</u>	
<u>7 holes 5125-27-29</u>	<u>3</u>	<u>5125</u>	<u>5129</u>	
<u>4 holes 5170-32-34-35</u>	<u>4</u>	<u>5130</u>	<u>5135</u>	
<u>5 holes 5140-42-44-46-48</u>	<u>5</u>	<u>5140</u>	<u>5148</u>	
<u>7 holes 5151-52-54-55-56-57-58</u>	<u>7</u>	<u>5151</u>	<u>5158</u>	
<u>3 holes 5162-67-71</u>	<u>3</u>	<u>5162</u>	<u>5171</u>	<u>3700</u>

DEPTH AND OPERATIONS CHARGES						
Description	From	Depth To	Total No. Ft.	Price Per Ft.	Amount	
<u>Run GR/KB/L/CLL</u>	<u>0</u>	<u>5515</u>	<u>5515</u>	<u>.31</u>	<u>1709</u>	<u>65</u>
<u>" " "</u>	<u>5515</u>	<u>3600</u>	<u>M.A.</u>	<u>.29</u>	<u>580</u>	<u>2</u>

MISCELLANEOUS		
Description	Quantity	Amount
<u>Service Charge</u>	<u>1</u>	<u>550</u>

PRICES SUBJECT TO CORRECTION BY BILLING DEPARTMENT

RECEIVED THE ABOVE SERVICES ACCORDING TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE TO WHICH WE HEREBY AGREE.

Sub Total	<u>6579</u>
Code Rel. Tool Insurance	
Tax	<u>130766</u>
<b>Total</b>	<b><u>5232 00</u></b>

[Signature] 7/22/2013  
 Customer Signature Date



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 22, 2013

Bruce D. Kelso  
Lasso Energy LLC  
PO Box 465  
1125 South Main  
Chase, KS 67524-0465

Re: ACO1  
API 15-097-21759-00-00  
McClaren B 1  
NE/4 Sec.06-30S-18W  
Kiowa County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years. We also request confidentiality for the logs for this ACO-1 which are being emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). We also request confidentiality for the well samples on this well which we will shortly submit to the KGS Well Library.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Bruce D. Kelso