



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1152141  
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: \_\_\_\_\_



1152141

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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	Asmussen 16-3
Doc ID	1152141

Tops

Name	Top	Datum
Lansing	1825	-603
Kansas City	2133	-911
Stark	2254	-1032
Hushpuckney	2291	-1069
Base Kansas City	2351	-1129
Cherokee	2543	-1321
Kinderhook	2652	-1430
Arbuckle	2702	-1480



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

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

0040615392  
FIELD SERVICE TICKET

1718 08663 A

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

DATE OF JOB <b>7-8-13</b> DISTRICT <b>Pratt</b>		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 <b>LASSO Energy</b>		LEASE <b>ASMusser</b> WELL NO. <b>163</b>					
ADDRESS		COUNTY <b>Butler</b> STATE <b>KS</b>					
CITY STATE		SERVICE CREW <b>MATTI, Young, Lawrence</b>					
AUTHORIZED BY		JOB TYPE: <b>CNW S.P.</b>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE <b>7-8-13</b> AM <input checked="" type="checkbox"/> PM <input type="checkbox"/> TIME <b>6:00</b>
<b>37900</b>	<b>.5</b>					ARRIVED AT JOB	AM <input type="checkbox"/> PM <input checked="" type="checkbox"/> <b>9:45</b>
<b>77646/19905</b>	<b>.5</b>					START OPERATION	AM <input type="checkbox"/> PM <input checked="" type="checkbox"/> <b>11:15</b>
<b>19826/19860</b>	<b>.5</b>					FINISH OPERATION	AM <input type="checkbox"/> PM <input checked="" type="checkbox"/> <b>11:45</b>
						RELEASED	<b>7-9-13</b> AM <input type="checkbox"/> PM <input checked="" type="checkbox"/> <b>12:36</b>
						MILES FROM STATION TO WELL	<b>110</b>

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 *Eric Davidson*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 POT	SK	175		2100 00
CC 102	CELLULOSE	LB	44		162 80
CC 109	calcium chloride	LB	453		475 65
CR 153	WOODEN CRT Plug	EA	1		160 00
CC 131	Sugar	LD	50		100 00
E 100	UNIT miles P.U.	MT	110		467 50
E 101	HEAVY EQUIPMENT miles	MT	220		1540 00
E 113	PROP. + BULK DELIVERY charge TOW mile	TM	831		1328 60
CE 200	Depth charge 0-500'	4hrs	1		1000 00
CE 240	175 SK Blend + MLY charge	SK	175		245 00
CE 504	PMS CONTAINER UTILIZATION charge	SD	1		250 00
5003	Service supervisor first 8 hr	TA	1		175 00
SUB TOTAL					

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<b>4802 85</b>

SERVICE REPRESENTATIVE <b>Mike Matti</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY <u><i>Eric Davidson</i></u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	---

FIELD SERVICE ORDER NO.

Customer <b>LASSO Energy</b>	Lease No.	Date <b>7-8-13</b>
Lease <b>ASMUSSEN</b>	Well # <b>16-3</b>	
Field Order # <b>8663</b>	Station <b>PRATT</b>	Casing <b>8 5/8</b> Depth <b>267</b> County <b>BUTLER</b> State <b>KS</b>
Type Job <b>CNW S.P. 8 5/4</b>	Formation	Legal Description <b>16-29-46</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <b>8 5/8"</b>	Tubing Size	Shots/Ft		Acid <b>CMH 175 SK</b>	RATE <b>60/40 P02</b>	PRESS	ISIP
Depth <b>267</b>	Depth	From	To	Pre Pad <b>350 CC 1 1/4"</b>	Max <b>25 CELL PUMP</b>		5 Min.
Volume <b>17,199</b>	Volume	From	To	Pad	Min		10 Min.
Max Press <b>200</b>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <b>P.S.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <b>255</b>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
Service Units <b>37900</b>	<b>77666 19905</b>	<b>19826 19860</b>
Driver Names <b>MATTM</b>	<b>Young</b>	<b>LAWRENCE</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:45					TRUCKS ON LOCATION / SAFETY MEETING
9:50					RUN 8 5/8 CASING
11:05					HOOK UP TO CASING / BREAK CIRC W RIG
11:15	150			3	PUMP 5 BBLS H2O
11:18			5	2	MIX 175 SKS 60/40 P02
11:30	0		43		RELEASE PLUG
11:33	100			5	DISPLACE W H2O
11:43	125		53	3	SLOW RATE
11:45	200		59		PLUG DOWN
					CIRC. 25 BBLS TO PIT
					CIRC THRU JOB
					JOB COMPLETE
					THANK YOU
					MIKE MATTM

Customer Lasso Energy, LLC	Lease No.	Date 7-13-13
Lease Asmussen	Well # 16-3	
Field Order # 2691	Station Pratt, Kansas	Casing" 5 1/2 14 lb
Type Job C.N.W. Longstring	Depth 2900 Feet	County Butler
	Formation	State Kansas
		Legal Description 16-295-4E

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 5 1/2 14 lb	Tubing Size 4 1/2	Shots/Ft 200 sacks	Acid AA 2 with.	Pre Pad Foamer, 10BSlt.	5% Fluid	1050, 3%	ISIP Friction Reducer,
Depth 2900 Feet	Depth	From To	2900	15 lb./Gal. 6.0	Max 25 lb./stc	11 ft. 5 lb.	5 Min. Gilsonite
Volume 68.3 Bbl.	Volume	From To	15 sacks of above blend	Avg plug Rate	1.43 cu. ft		10 Min. 15 Min.
Max Press 1500 PSI	Max Press	From To	727	HHP Used			Annulus Pressure
Well Connection Plug Central	Annulus Vol. ner	From To	68	Flush 68.3 Bbl. Fresh water	Gas Volume		Total Load
Plug Depth 2900 Feet	Packer Depth	From To					

Customer Representative Druce Kelso	Station Manager Kevin Gordley	Treater Clarence R. Messick
Service Units 37,216	77,686	19,905
Driver Names Messick	Mc Graw	Harrison
19,460	21,010	

Time A.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:45					Trucks on location and hold safety meeting.
9:15					Val Drilling start turn Regular shoe. Shoe Joint with Auto Fill Baffle screwed into collar and a total of 79 Joints used. Tested 14 lb./ft 5 1/2" casing A Turbulizer was installed on collars # 2, 3, 4, 5, 6, 16, 17, 20, 25, and # 30.
11:15					Casing in well Circulate and Rotate for 1 hour.
12:21		2000			Shut in well Pressure Test. Open well.
12:23	200			6	Start Fresh water Pre-Flush.
			20	6	Start super Flush.
			32	5	Start Fresh water spacer.
12:36	200		35	5	Start mixing 200 sacks AA 2 cement.
	-0-		86		Stop pumping, shut in well. Wash pump and lines. Release Top Rubber Plug Open well.
12:51	150			6.5	Start Fresh water Displacement.
			45	5	Start to lift cement.
1:05	500		<del>72.7</del> 68.3	68	Plug down.
	1,500				Pressure up
					Release pressure. Insert hold
	-0-		7	5	Plug Rod Hole
					Wash up pump truck
1:45					Job Complete
					Thank You
					Clarence, Mike, Matthew



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ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 08641 A

16-295-4E

DATE OF JOB 7-13-13	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 Asmussen							
ADDRESS		COUNTY Butler				STATE Kansas			
CITY		STATE		SERVICE CREW C Messick M McGraw M Harrison					
AUTHORIZED BY		JOB TYPE: C N.W. Longstring							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37216	1.25						7-12-13	AM	9:00
77,656-19905	1.25					ARRIVED AT JOB	7-13-13	AM	7:45
						START OPERATION		AM	12:15
						FINISH OPERATION		AM	1:30
19,960-21,010	1.25					RELEASED	7-13-13	AM	1:45
						MILES FROM STATION TO WELL	110		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).  
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SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 cement	sk	200		
CP105	AA2 cement	sk	30		
CC102	Cellulose	Lb	58		
CC105	Defoamer	Lb	44		
CC111	Salt	Lb	1,156		
CC112	Cement Friction Reducer	Lb	66		
CC129	Fluid Loss	Lb	109		
CC201	Gilsonite	Lb	1,150		
CF103	Top Rubber Plug, 5 1/2"	ea	1		
CF251	Regular Guide Shoe, 5 1/2"	ea	1		
CF1451	Insert Float Valve, 5 1/2"	ea	1		
CF1651	Turbulizer, 5 1/2"	ea	10		
CC154	Super Flush	Gal	500		

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: \_\_\_\_\_  
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



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FIELD SERVICE TICKET

1718 ~~00042~~ A

Continuation

16-295-4E

DATE TICKET NO. 8641

DATE OF JOB: 7-13-13		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: Asmussen				WELL NO. 16-3			
ADDRESS:				COUNTY: Butler		STATE: Kansas					
CITY:				STATE:		SERVICE CREW: Messick M. McGraw M. Harrison					
AUTHORIZED BY:				JOB TYPE: C N W - Longstring							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME	
						ARRIVED AT JOB					
						START OPERATION					
						FINISH OPERATION					
						RELEASED					
						MILES FROM STATION TO WELL					

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P E 100	Pickup Mileage	Mi	110		
P E 101	Heavy Equipment Mileage	Mi	220		
P E 113	Bulk Delivery	tm	1,194		
P CE 203	Cement Pump 200 Feet To 300 Feet	hrs	4		
P CE 240	Blending and Mixing Service	sh	230		
P CE 504	Play Container	Job	1		
P S 003	Service Supervisor	hrs	8		

CHEMICAL / ACID DATA:			

SUB TOTAL		\$ 9,703.02
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

FIELD SERVICE ORDER NO. (WELL OWNER OPERATOR CONTRACTOR OR AGENT)





# Lasso Energy

Scale 1:240 (5"=100') Imperial

Well Name: Asmussen #16-3  
Location: Sec. 16-29S-4E  
Licence Number: API No.: 15-015-23975-0000  
Spud Date: July 8, 2013  
Surface Coordinates: 2276' FSL & 2210' FEL

Region: Asmussen  
Drilling Completed: July 12, 2013

**Bottom Hole Coordinates:**

Ground Elevation (ft): 1212'                      K.B. Elevation (ft): 1222'  
Logged Interval (ft): 1500'                      To: 2806'                      Total Depth (ft): 2806'  
Formation: Arbuckle  
Type of Drilling Fluid: Chemical Gel/Polymer

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

## OPERATOR

Company: Lasso Energy, LLC  
Address: P.O. Box 465  
1125 South Main  
Chase, KS 67524

## GEOLOGIST

Name: Adam T. Kennedy  
Company: Valhalla Exploration, LLC  
Address: 8100 E 22nd St N Bldg 1800-2  
Wichita, KS 67226

Date	0700 Hrs Depth	Previous 24 Hours of Operations
7.10.13	1300'	Drilling and connections into Lansing. Call depth reached @ 2100 hrs. Geologist on
7.11.13	1983'	Drilling and connections Lansing to Base Lansing. Currently drilling ahead into the Kansas City. WOB: 25k, RPM: 65, PP: 650
7.12.13	2550'	Drilling and connections Kansas City to Marmaton. Currently drilling ahead through Cherokee. WOB: 25k, RPM: 65, PP: 650 DMC: \$4,288.65 CMC: \$5,394.45
7.13.13	2810' - RTD 2806' - LTD	Drilling and connections Cherokee, Kinderhook. RTD @ 2800' @ 1400 hrs 7.12.13. Run short trip, CTCH 1 hr, drop survey, strap out for logs. Logging operations completed at 0200 hrs 7.13.13. Geologist off location @ 1700 hrs 7.12.13. WOB: 25k, RPM: 65, PP: 650 DMC: \$2,235.70 CMC: \$7,630.15

Drilling Well					Comparison Well				Comparison Well				Comparison Well				
Lasso Energy - Asmusen #16-3 Sec. 16 - T29S - R04E 2310' FSL & 2104' FEL					Lasso - Asmusen 'OWWO' #16-1 Sec. 16 - T29S - R04E 2310' FSL & 2245' FEL				Lasso - Asmusen 'OWWO' #16-2 Sec. 16 - T29S - R04E 2110' FSL & 2310' FEL				J.A. Allison - Asmusen #1 Sec. 16 - T29S - R04E C NW NW SE				
1222 KB					Oil - Arb/SWD 1220 KB		Structural Relationship		Oil - Arbuckle 1222 KB		Structural Relationship		Oil - Arbuckle 1215 KB		Structural Relationship		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Lansing	1818	-596	1825	-603										1817	-602	6	-1
Kansas City	2134	-912	2133	-911	2123	-903	-9	-8	2129	-907	-5	-4	2113	-898	-14	-13	
Stark	2250	-1028	2254	-1032	2244	-1024	-4	-8	2252	-1030	2	-2	2234	-1019	-9	-13	
Hushpuckney	2296	-1074	2291	-1069	2282	-1062	-12	-7	2288	-1066	-8	-3	2271	-1056	-18	-13	
Base Kansas City	2352	-1130	2351	-1129	2338	-1118	-12	-11	2345	-1123	-7	-6	2332	-1117	-13	-12	
Cherokee	2547	-1325	2543	-1321	2527	-1307	-18	-14	2538	-1316	-9	-5	2519	-1304	-21	-17	
Kinderhook	2667	-1445	2652	-1430	2644	-1424	-21	-6	2653	-1431	-14	1	2638	-1423	-22	-7	
Arbuckle	2709	-1487	2702	-1480	2696	-1476	-11	-4	2714	-1492	5	12	2695	-1480	-7	0	
Total Depth	2810	-1588	2806	-1584	3100	-1880	292	296	3000	-1778	190	194	2700	-1485	-103	-99	

### ROCK TYPES

#### LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Sltstn
- Shale
- Sandylms
- Lms
- Gry sh
- Dtd
- Dol
- Carb sh
- pipesymbol

- unknown lith
- Red shale

#### FOSSIL

- Oomoldic
- Fuss
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- MINERAL
- Sity

- Sand
- Dol
- Chlorite
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil

- Sulphur
- Tuff

- Grainst
- Lithogr
- Microxn
- Mudst
- Packst
- Wackst

#### STRINGER

- Red shale
- Sh
- Sandylms
- Lms
- Gryslt
- Grysh
- Dol
- Clystn
- Carbsh
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

- OIL SHOW
- Gas show
- Good
- Fair
- Poor
- Dead

#### INTERVAL

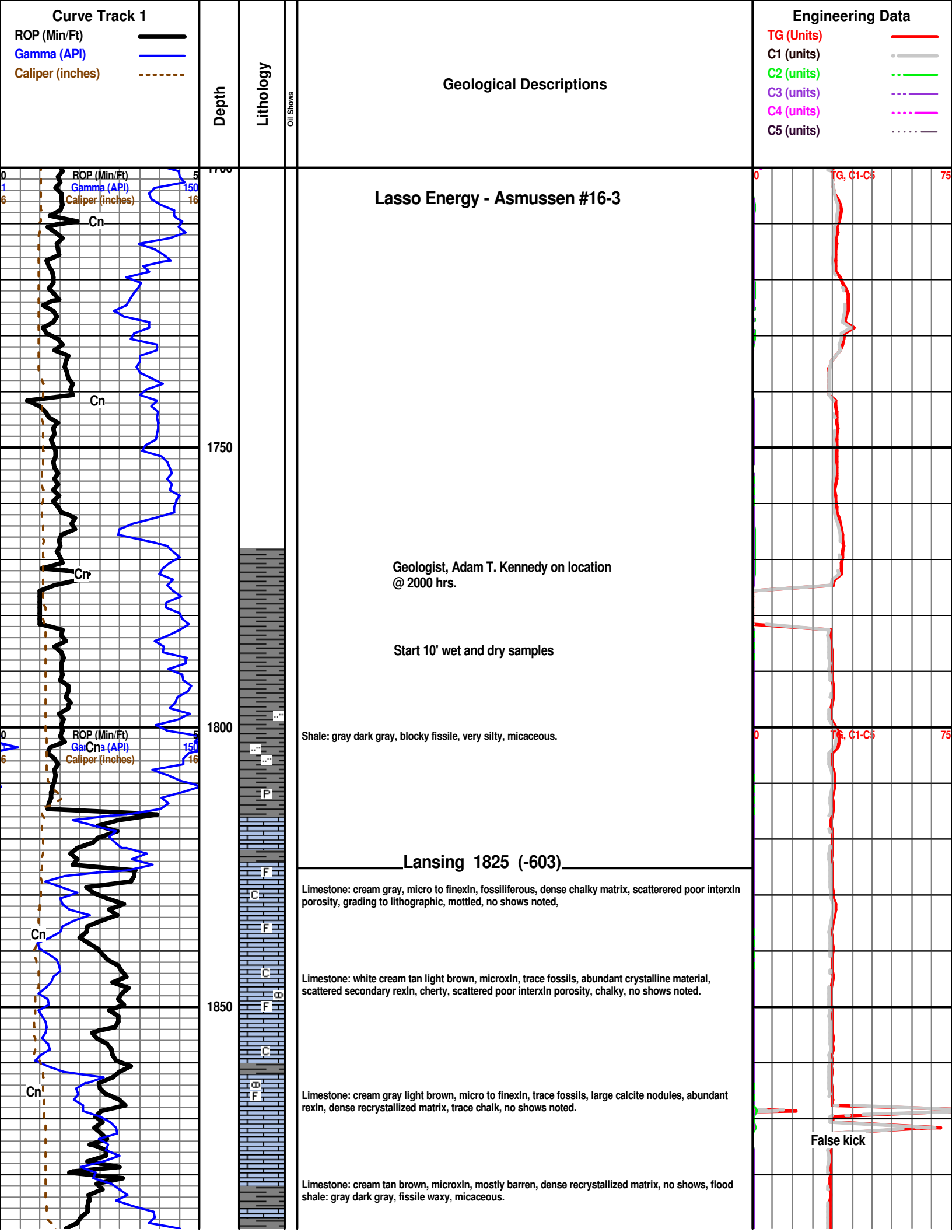
- Dst
- Core
- Dst
- Straddle test

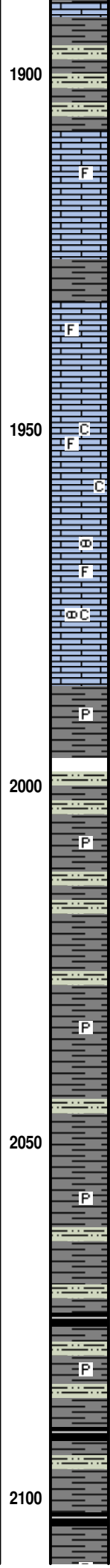
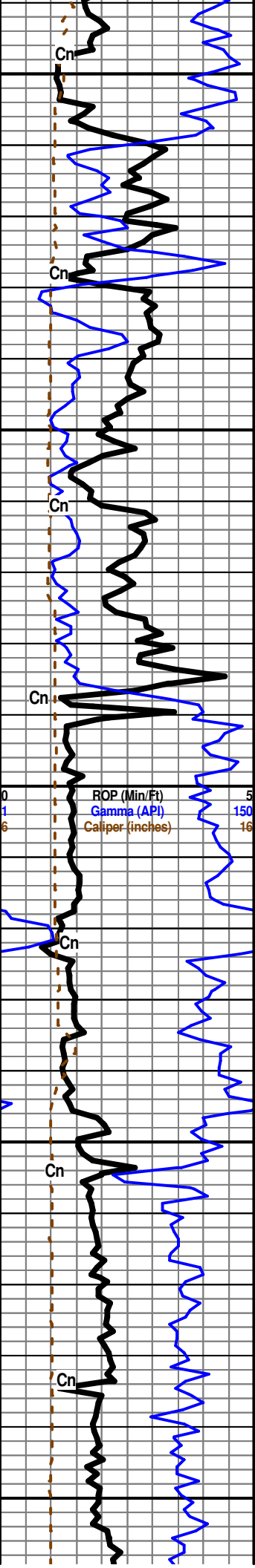
#### EVENT

- Rft
- Sidewall
- Dst
- Open hole
- Perforations

#### TEXTURE

- Boundst
- Chalky
- Cryxin
- Earthy
- Finexln





Shale: gray dark gray, waxy, abundant silt, micaceous pyritic, scattered siltstone: gray mottled, very dense. Scattered limestones as above.

Limestone: cream gray trace white, lithographic to microxl, fossiliferous, dense cherty matrix, recrystallized, poor visible porosity, no shows noted, scattered shales as above.

Limestone: cream gray tan, lithographic to microxl, trace fossils, dense hard matrix, scattered cherty inclusions, recrystallized, poor visible porosity, no shows noted.

Limestone: white cream tan, microxl, fossiliferous, dense to chalky matrix, scattered poor interxl trace oomoldic porosity, abundant chalk in porosity, no shows noted.

Limestone: white cream tan, micro to finexl, fossiliferous, dense recrystallized matrix, abundant secondary calcite nodules/crystals, scattered poor interxl porosity, decrease in chalk, no shows noted.

**Base Lansing 1986 (-764)**

Limestone: cream gray as above, large calcite nodules, grading to shale: gray dark gray, waxy fissile, pyritic.

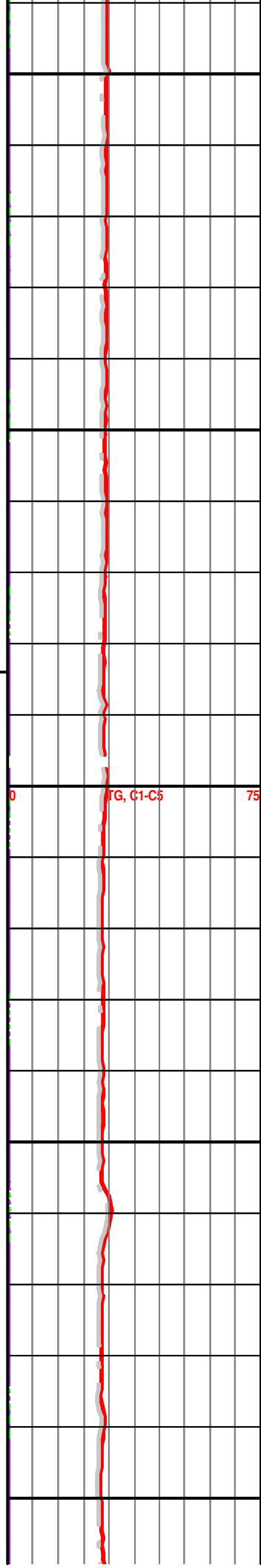
Shale: gray dark gray brown black, blocky grading to fissile waxy, micaceous, silty, pyritic.

Shale: gray dark gray black, soft fissile waxy, abundant silt, micas, pyrite.

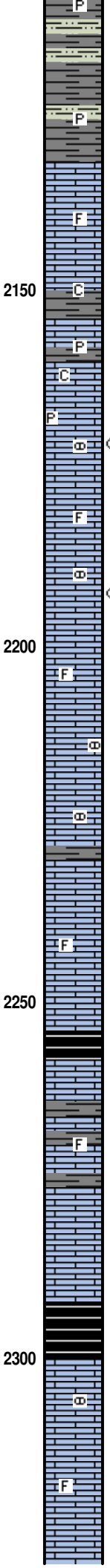
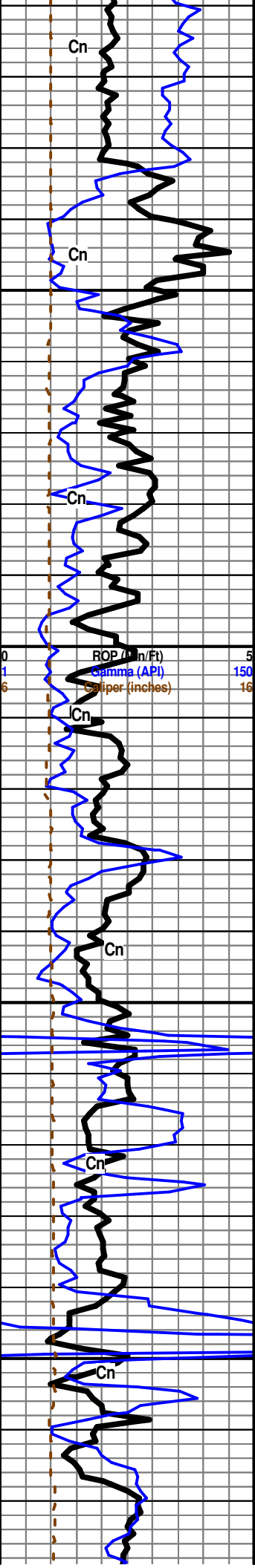
Shales as above, decrease in siltstone.

Shale: gray dark gray, waxy fissile, abundant silt, trace micas, pyrite.

Shale: gray dark gray trace black, waxy fissile, silty, trace black blocky carbonaceous.



0 75  
1 150  
6 16  
RG, C1-C5



Shale: gray dark gray trace green, soft waxy fissile, micaceous, decrease in silt.

**Kansas City 2133 (-911)**

Limestone: cream tan, micro to finexln, trace fossils (mostly barren), dense chalky matrix, poor visible porosity, no shows or fluorescence noted, abundant shales as above.

Limestone: white cream tan, microxln, barren, dense chalky to soft matrix, scattered poor to fair inxln porosity, trace rexln fill along fracture planes, faint odor in cup, no other shows or fluorescence noted, pyritic.

Limestone: white cream tan, micro to finexln, dense chalky matrix, scattered poor interxln, abundant chalky fill, trace show free oil stream in tray, fair odor, pale green fluorescence.

Limestone: white cream brown, micro to finexln, dense crystalline matrix, decrease in chalk, scattered poor to fair interxln porosity, no shows or fluorescence noted, very faint odor.

Limestone: cream tan light brown, micro to finexln, dense crystalline matrix, abundant crystalline material / nodules, scattered poor to fair interxln porosity, trace light brown oil show, faint odor, pale green spotty fluorescence.

Limestone: cream tan brown, micro to finexln, dense chalky crystalline matrix, abundant recrystallized nodules, scattered fair interxln porosity, no shows or fluorescence noted.

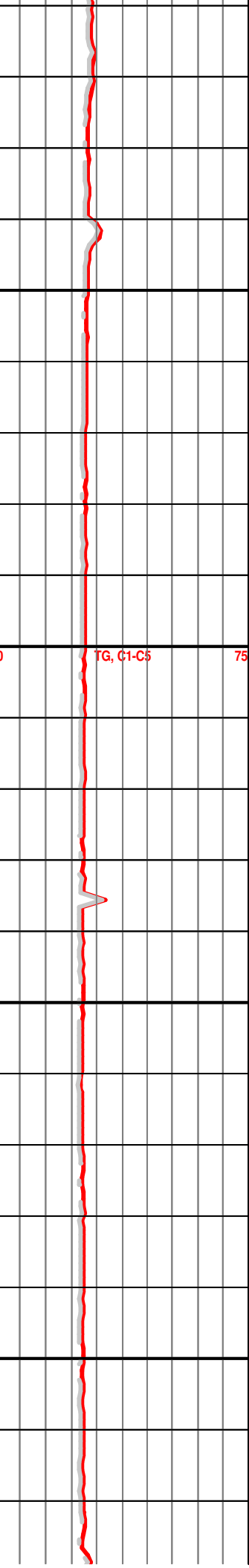
Limestone: cream tan gray, lithographic to finexln, dense crystalline matrix, scattered calcite nodules, poor interxln porosity, no shows noted.

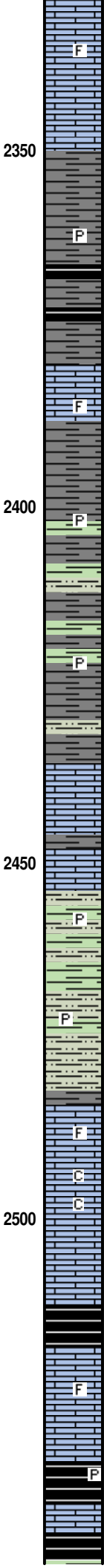
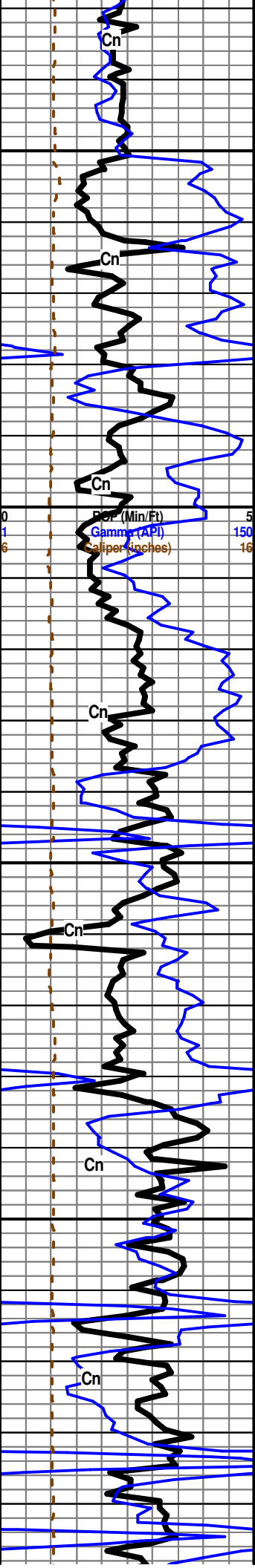
Limestone: cream tan gray, lithographic to microxln, dense crystalline matrix, scattered secondary rexln, poor to fair visible porosity, no shows noted.

Limestone: cream tan light brown, micro to finexln, fossiliferous, dense crystalline matrix, scattered good interxln porosity, no shows or fluorescence noted.

**Hushpuckney 2291 (-1069)**

Limestone: cream tan light brown, micro to finexln, trace fossils, dense hard crystalline matrix, good scattered interxln porosity, no shows or fluorescence noted, abundant blocky gray shales.





Limestone: cream tan gray, lithographic, trace fossils, dense hard crystalline matrix, poor visible porosity, no shows noted.

**Base Kansas City 2351 (-1129)**

Shale: gray dark gray, soft waxy trace fissile, micaceous, pyritic.

Shale: gray dark gray, soft waxy to blocky, abundant black blocky shales, trace carbonaceous.

Shale: gray dark gray green, soft waxy fissile, micaceous.

Limestone: cream tan, micro to finexln, fossiliferous, dense to friable crystalline matrix, scattered good interln porosity, no shows or fluorescence noted.

Shale: green dark gray, waxy soft, abundant sandstone inclusions: sub angular poorly sorted, opaque, pyritic, chalky.

Shale: green dark gray, waxy, abundant silty sandstones: clear frosted, poorly sorted, sub-angular, well cemented, pyritic, no shows.

**Marmarton 2440 (-1218)**

Limestone: cream tan light brown, lithographic to microxln, barren, dense hard cryptxln matrix, very poor visible porosity, pyritic, chalky, no shows.

Shale: gray green, waxy chalky soft, abundant micas, with flood siltstone: gray green, very-fine grained, poorly sorted, well cemented, abundant micas, pyrite.

Shale: gray dark gray, green, waxy soft, micaceous, abundant shaley siltstones as above, abundant micas.

Limestone: cream tan light brown, micro to finexln, trace fossils, dense chalky matrix, poor visible porosity, no shows noted. Abundant silty shales as above.

Limestone: cream tan gray light brown, cryptxln lithographic, dense hard matrix, very poor visible porosity, no shows noted, still carrying abundant shales from above.

Shale: black dark brown, blocky, dense, pyritic, trace carbonaceous.

Limestone: cream tan light brown, lithographic, dense cryptxln matrix, very poor visible porosity, no shows noted.

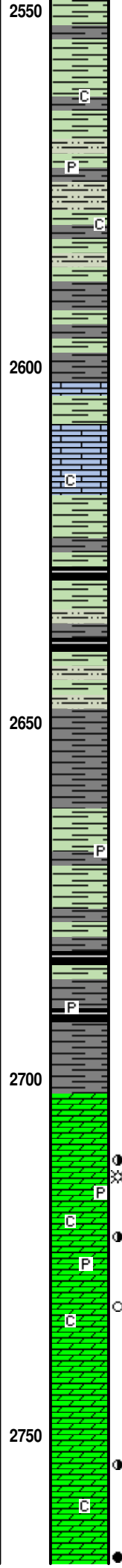
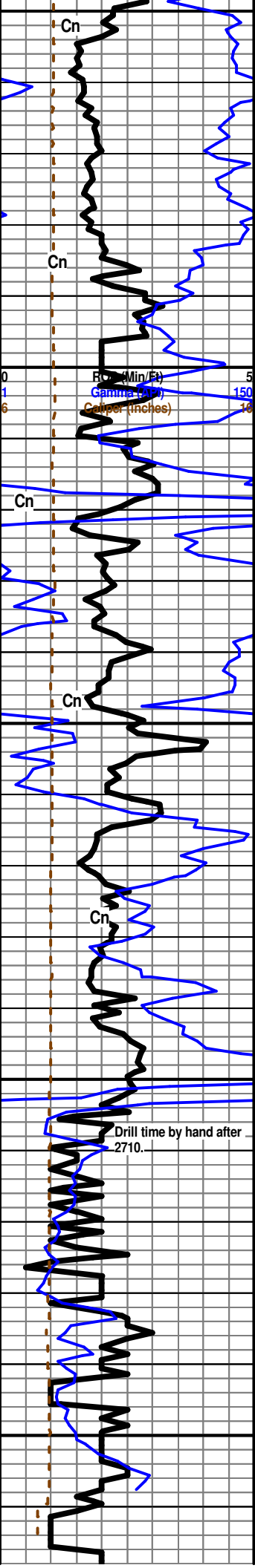
Shale: black dark brown, blocky, dense, pyritic, carbonaceous.

**Cherokee 2543 (-1321)**

Shale: black as above

Mud Co	Mud Ck
7.11.13	
Vis: 47	Wt: 9.0
pv: 15	yp: 15
pH: 10.5	wt: 9.0
Chlr: 1,200	
DMC: \$4,288.65	
CMC: \$5,394.45	

TG, C1-C5 75



Shale: black as above.

Shale: gray dark gray green, blocky dense hard, trace micas, silty, chalky.

Shale: gray green, blocky dense to chalky waxy, abundant silt, micas, pyrite.

Shale: gray green, blocky dense silty, grading to dark gray, blocky very dense, micaceous.

Shale: gray green, blocky dense silty, grading to dark gray, blocky very dense, micaceous.

Limstone: cream tan, microxln, fossiliferous, dense sub-chalky matrix, scattered poor-fair interxln porosity, abundant crystalline material, no shows or fluorescence noted.

Shale: gray green trace black, blocky dense, waxy, micaceous, scattered black carbonaceous.

**Kinderhook 2652 (-1430)**

Shales as above, flood siltstone/sandstone, dense well cemented, opaque, poorly sorted, sub-angular, no shows noted.

Shale: flood green shale, waxy soft to blocky, micaceous, abundant pyrite.

Shale: gray dark gray brown trace black, dense silty blocky, micaceous, pyrite.

**Arbuckle 2702 (-1480)**

Dolomite: white cream, micro to coarsexln, barren, poor to good rhombic development, scattered good interxln trace vuggy porosity, even dark brown/black stain in porosity, slight show free oil/gas under lamp, spotty green fluorescence, strong odor.

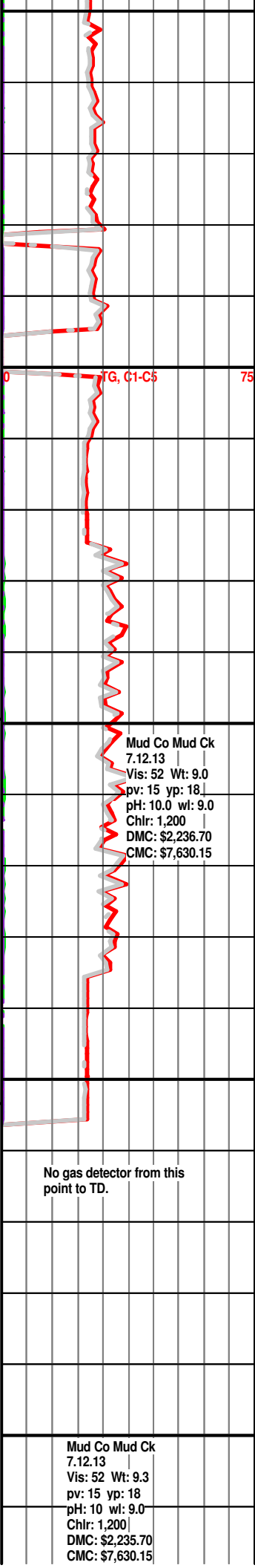
Dolomite: white cream, micro to finexln, barren, poor to good rhombic development, dolomites as above with decrease show, grading to dolomite: white cream tan, microxln, very dense crypxln matrix, no shows.

Dolomite: white cream, micro to finexln, poor rhombic development, scattered poor to fair interxln porosity, scattered dead black brown stain, slight show free oil in tray, even green fluorescence, strong odor, abundant pyrite.

Dolomite: white cream, finexln, poor to good rhombic development, scattered good interxln vuggy porosity, scattered caliche fill, no shows noted, dull green fluorescence, with dense lithographic white dolomite, no show, very strong sulphur odor.

Dolomite: white cream tan, micro to finexln, scattered good rhombic development, scattered secondary recrystallization, good interxln trace vuggy porosity, light brown stain in porosity, increase in free oil show under lamp, dull green fluorescence, very strong odor, pale white cut.

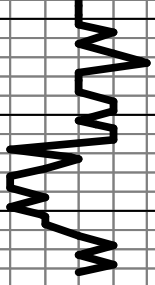
Dolomite: cream tan light brown, micro to finexln, scattered good rhombic development, poor to fair interxln porosity, sharp increase in free oil show, most samples bleeding oil and gas freely, scattered





light brown stain, dull green fluorescence, pale white cut, strong sulphur odor.

Dolomite: cream tan light brown, micro to finexln, scattered good rhombic development, mostly poor, trace good interlxn vuggy porosity, scattered light brown stain, good show free oil under lamp, dull green fluorescence, pale white cut, strong odor.



2800

LTD 2806 (-1584)

RTD 2810 (-1588)

ROP (Min/Ft) 5  
Gamma (API) 150  
Ran 78 joints 5 1/2" casing. Tally @ 2791.82  
set 4.18" off bottom.  
Cemented by Basic.

0 TG, C1-C5 75

2850

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

September 16, 2013

Leslie Roederer  
Lasso Energy LLC  
PO Box 465  
1125 S. Main  
Chase, KS 67524-0465

Re: ACO1  
API 15-015-23975-00-00  
Asmussen 16-3  
SE/4 Sec.16-29S-04E  
Butler 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. Please extend this confidentiality to the well log files submitted as required by email to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov).

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

Respectfully,  
Leslie Roederer