



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1089198
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: _____

1089198

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)* _____

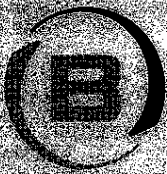
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	CARVER 1
Doc ID	1089198

Tops

Name	Top	Datum
Stalnaker	1896	-638
Perry Sand	2094	-836
Layton	2308	-1050
Kansas City	2401	-1143
Hushpuckney	2493	-1235
Base Kansas City	2544	-1286
Altamont	2547	-1389
Pawnee	2714	-1456
Fort Scott	2745	-1487
Cherokee	2774	-1516
Cattleman Sand	2876	-1618
Bartlesville Sand	2942	-1684
Mississippian	3028	-1770
Northview Shale	3364	-2106
Compton	3387	-2129
Kinderhook	3398	-2140
Arbuckle	3470	-2212



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 06731 A

25-315-4E

DATE _____ TICKET NO. _____

DATE OF JOB: 7-19-12	DISTRICT: Pratt, Kansas	NEW WELL <input type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	TWDW <input type="checkbox"/>	CUSTOMER ORDER NO.		
CUSTOMER: Lasso Energy, LLC		LEASE: Carver		WELL NO: 1					
ADDRESS:		COUNTY: Cowley		STATE: Kansas					
CITY:		STATE:		SERVICE CREW: C. Messick, M. Mottel, J. P. Olson					
AUTHORIZED BY:		JOB TYPE: CCSPW - 4 1/2 Lines							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37216	1.25						7-19-12	AM	5:30
19386-19405	1.25					ARRIVED AT JOB		AM	5:50
						START OPERATION		AM	6:45
						FINISH OPERATION		AM	8:00
19959-19860	1.25					RELEASED	7:14	AM	8:15
						MILES FROM STATION TO WELL	100		

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
CP101	A con Blend Cement	SK	60		
CP101	A con Blend Cement	SK	25		
CP100C	Common Cement	SK	25		
CC105	C-41P	Lb	21		
CC111	Salt	Lb	1,038		
CC113	Cement Friction Reducer	Lb	81		
CC129	FLA-322	Lb	41		
CC130	C-51	Lb	9		
CC109	Calcium Chloride	Lb			
CF102	Top Rubber Ply	ea	1		
E100	Pickup Mileage	Mi	100		
E101	Heavy Equipment Mileage	Mi	200		
E113	Bulk Delivery	hr	770		
CE 204	Cement Pump; 3 Collect To 4,000 Feet	hrs	4		
CE 240	Blending and Mixing Service	SK	110		
CE 504	Plug Container	Job	1		
S003	Service Supervisor	hrs	8		

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: *James R. Wood*

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

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

BASIC

energy services, L.P.

250'

TREATMENT REPORT

Customer Lasso Energy, LLC.	Lease No. -	Date 7-19-12
Lease Carver	Well # 1	
Field Order # 6731	Station Pratt, Kansas	County Cowley
Type Job C.C.S.P.W. - 4 1/2" Liner	Casing 4 1/2" 11.6 LB	Depth 3526 FT
	Formation Arbuckle	State Kansas
		Legal Description 25-315-4E

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 4 1/2" 11.6 LB	Tubing Size 4 1/2" 11.6 LB	Shots/Ft	85	ADD	5 sacks A con with	25%	Defoamer	10% Salt
Depth 3526 FT	Depth	From	To	18	Friction Reducer, .5	6	Fluid Loss	.18
Volume 54.6 BBL	Volume	From	To			Min		5 Min
Max Press 1500 P.S.I.	Max Press	From	To	25	5 sacks Common with 28			15 Min
Well Connection Plug Container	Annulus Vol.	From	To		for 1"	HHP Used		Annulus Pressure
Plug Depth 3526 Feet	Packer Depth	From	To	Flush	54.6 BBL Fresh Water	Gas Volume		Total Load

Customer Representative: Bruce Kelso Station Manager: David Scott Treater: Clarence R. Messich

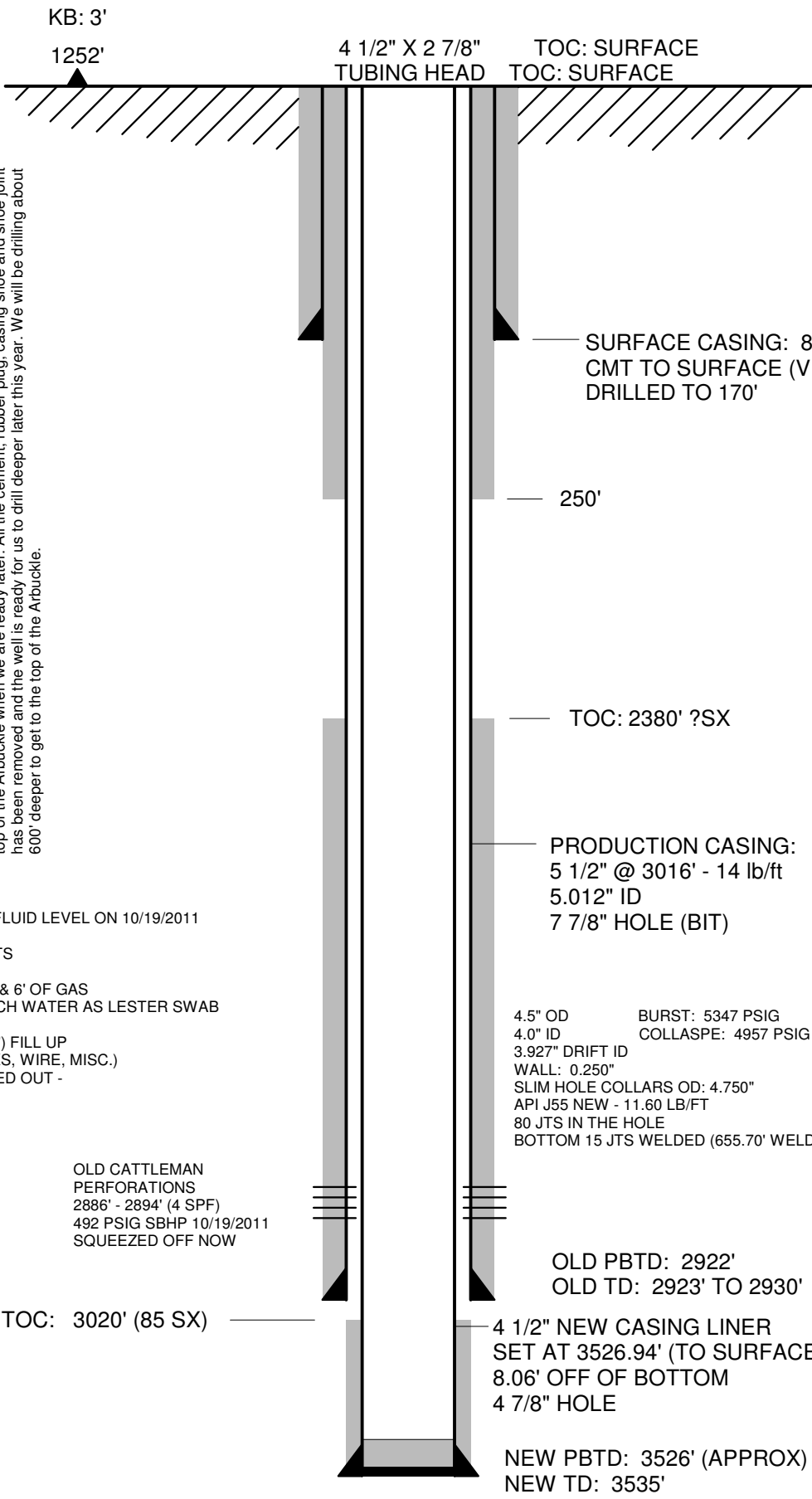
Service Units	37,216	19,886	19,905	19,959	19,860
Driver Names	Messich	Mattal	Pierson		

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:00					Trucks on location and hold safety meeting.
6:30					Casing being run upon arrival.
6:40		2,500			Casing in well.
6:45	100			5	Shut in well. Pressure Test. Open well.
	500		54	4.75	Start Fresh water to fill liner.
7:02	500			5	Liner full and well circulating. ^{Did not} circulate.
7:07					Start mixing 60 sacks A con at 12 Lb/Gal.
					Start mixing 25 sacks A con at 13.4 Lb/Gal.
7:11	100			5	Stop pumping. Shut in well. Wash pump and lines. Release Top Rubber Plug. Open Well.
7:28	600		54.6		Start Fresh Water Displacement.
	1,500				Start Mixing Plug Down.
					Pressure up.
					Release pressure float shoe hold.
					Run 1" Tubing (10 Joints)
7:38	100			2	Start mixing commencement with 28 CC.
			5		Cement circulated to surface.
					Pull 10 Joints of 1" tubing out of well.
					Wash up pump truck.
					Job complete.
					Thank You
					Clarence, Mike, Jesse

REVISION:	DESCRIPTION:
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WELL No: 1

REV.



1/18/2012: There was 1148 of fluid in the wellbore (from 1750 to 2898) which was 29 BBLS of fluid. Most of this was oil. So we know for sure that the Cattleman has oil in it.
 Right now we are clean and clear all the way to 2948 and we are ready to drill new hole down to the top of the Arbuckle when we are ready later. All the cement, rubber plug, casing shoe and shoe joint has been removed and the well is ready for us to drill deeper later this year. We will be drilling about 600' deeper to get to the top of the Arbuckle.

1750' STATIC FLUID LEVEL ON 10/19/2011

SWAB RESULTS
 1/18/2012
 SHOW OF OIL & 6' OF GAS
 TWICE AS MUCH WATER AS LESTER SWAB

2898'-2922' (24') FILL UP
 (?SAND, ROCKS, WIRE, MISC.)
 - NOW CLEANED OUT -

OLD CATTLEMAN PERFORATIONS
 2886' - 2894' (4 SPF)
 492 PSIG SBHP 10/19/2011
 SQUEEZED OFF NOW

4.5" OD BURST: 5347 PSIG
 4.0" ID COLLASPE: 4957 PSIG
 3.927" DRIFT ID
 WALL: 0.250"
 SLIM HOLE COLLARS OD: 4.750"
 API J55 NEW - 11.60 LB/FT
 80 JTS IN THE HOLE
 BOTTOM 15 JTS WELDED (655.70' WELDED)

OLD PBTD: 2922'
 OLD TD: 2923' TO 2930'

4 1/2" NEW CASING LINER
 SET AT 3526.94' (TO SURFACE)
 8.06' OFF OF BOTTOM
 4 7/8" HOLE

NEW PBTD: 3526' (APPROX)
 NEW TD: 3535'


SURFACE CASING: 8 5/8" @ 167' ?SX
 CMT TO SURFACE (VISUAL)
 DRILLED TO 170'

250'

TOC: 2380' ?SX

PRODUCTION CASING:
 5 1/2" @ 3016' - 14 lb/ft
 5.012" ID
 7 7/8" HOLE (BIT)

TOC: 3020' (85 SX)

DRAWN: BK 7/30/12	APPROVED:	LEASE: CARVER #1	WELL No: 1	REV.
			SCALE: N/A	
TOLERANCES (Unless Otherwise Specified) Fractional..... ± 1/32" 2 Place Decimal..... ± .030 3 Place Decimal..... ± .005 4 Place Decimal..... ± .001			LOCATION: 25-31 S-4E - COWLEY CO.	



LassoEnergy LLC

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

Well Name: Carver #1 'OWWO'
Location: Sec. 25 - T31S - R04E, Cowley County, KS
Licence Number: API No.: 15-035-19261-0001
Spud Date: June 21, 2012
Surface Coordinates: 660' FSL and 660' FEL

Region: Wilmot-Floral
Drilling Completed: July 17, 2012

Bottom Hole Coordinates:

Ground Elevation (ft): 1255' K.B. Elevation (ft): 1258'
Logged Interval (ft): 0' To: 3525' Total Depth (ft): 3535' (RTD)
Formation: Mississippian and Arbuckle
Type of Drilling Fluid: Clean Produced Salt Water System Converted To Chemical Gel/Polymer Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

Name: Derek W. Patterson
Company: Valhalla Exploration, LLC
Address: 133 N. Glendale
Wichita, KS 67208

REMARKS

The operator set pipe to test the Arbuckle porosity break though pipe (perforating and casing swabbing) and if the Arbuckle is not economically productive then a CIBP will be set above the Arbuckle perforations and the Mississippi Lime and Mississippi Chert will be perforated and fracked.

Respectfully Submitted,

Derek W. Patterson



General Information

Service Companies

Drilling Contractor: C&E Oil Services, LLC - Rig #3
 Tool Pusher: Ray Bryant

Drilling Fluid: Fud Mud
 Altered by Lasso Energy

Logging Company: Log-Tech
 Engineer: Lance Gregg
 Cased Hole Logs Ran: Gamma Ray Neutron Bond

Deviation Survey

Depth	Survey
N/A	None

Pipe Strap

Depth	Pipe Strap
Drill pipe tally matched with board at end of each joint	

Bit Record

Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	4 7/8"	JZ	Rock	N/A	2948'	3535'	587'	107.49

Surface Casing

Pre-Existing	8 5/8" casing, set @ 167' with cement to surface. Lasso will squeeze in cement from 250' to surface between the 8 5/8" surface casing and the 5 1/2" production casing set by original operator.
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Production Casing

Pre-Existing	5 1/2" 14 lb/ft production casing, set @ 3016', with top of cement @ 2380'. No casing leaks above 2380'. Lasso will run in 4 1/2" liner from surface to TD inside of the existing 5 1/2", set @ new TD.
7.19.2012	Ran 80 joints of new 11.6 lb/ft 4 1/2" production casing, tallying 3526.94', set @ 3527' KB. Cemented with 85 sacks. Cement did circulate. By Basic Energy Services.



Well Comparison Sheet

Drilling Well					Comparison Well				Comparison Well			
Lasso Energy - Carver #1 'OWWO' Original Well: Stewart Oil Co - Tanner#1 660' FSL & 660' FEL Sec. 25 - T31S - R04E 1256 Old KB 1258 KB					Cities Service - Tanner 'B' #1 NE NE SE Sec. 25 - T31S - R04E Dry 1253 KB				McNeish & Galapp - Bender #1 SE NW SE Sec. 25 - T31S - R04E Dry 1235 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Structural Relationship		Log	Sub-Sea	Structural Relationship	
							Sample	Log			Sample	Log
Stalnaker			1896	-638	1888	-635		-3	1890	-655		17
Perry Sand			2094	-836	2087	-834		-2	2091	-856		20
Layton			2308	-1050	2293	-1040		-10	2301	-1066		16
Kansas City			2401	-1143	2387	-1134		-9	2391	-1156		13
Hushpuckney			2493	-1235	2479	-1226		-9	2478	-1243		8
Base Kansas City			2544	-1286	2527	-1274		-12	2526	-1291		5
Altamont			2647	-1389	2631	-1378		-11	2631	-1396		7
Pawnee			2714	-1456	2697	-1444		-12	2693	-1458		2
Fort Scott			2745	-1487	2732	-1479		-8	2724	-1489		2
Cherokee			2774	-1516	2761	-1508		-8	2754	-1519		3
Cattlemans Sand			2876	-1618	2870	-1617		-1	2871	-1636		18
Bartlesville Sand	2954	-1696	2942	-1684	2940	-1687	-9	3	2937	-1702	6	18
Mississippian	3009	-1751	3028	-1770	2994	-1741	-10	-29	2979	-1744	-7	-26
Northview Shale	3364	-2106	3364	-2106	Not Penetrated				Not Penetrated			
Compton	3385	-2127	3387	-2129								
Kinderhook	3398	-2140	3398	-2140								
Arbuckle	3469	-2211	3470	-2212								
Total Depth	3535	-2277	3526	-2268	3028	-1775	-502	-493	3005	-1770	-507	-498


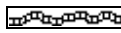
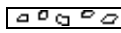
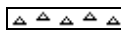
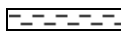







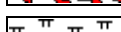



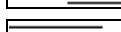



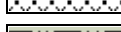




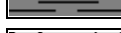



PLEASE NOTE:

ALL LOG TOPS PRIOR TO THE ORIGINAL TD OF ~2923' HAVE BEEN PICKED FROM THE ELECTRIC LOG RAN BY MCKNAB AND LINDSAY. THE VERTICAL DEPTHS OF THESE HAVE BEEN SHIFTED 2' LOWER/DEEPER TO CORRESPOND TO THE ACTUAL SUB-SEA VALUES OBTAINED FROM THE LOG READINGS. THERE IS A 2' DIFFERENCE BETWEEN THE ORIGINAL KB AND THE NEW KB FOR LASSO'S WORKOVER.

SAMPLE TOPS/SUB-SEA VALUES FROM THE MISSISSIPPIAN TO TD ARE FROM THE DEEPENING PHASE OF THE WELL, WITH THE NEW KB OF 1258'. LOG TOPS/SUB-SEA VALUES FROM 2720' TO TD ARE BASED OFF OF THE CASED HOLE LOG THAT WAS PERFORMED BY LOG-TECH ON 7.30.12.




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
-  Chilt
-  Dol
-  Feldspar
-  Ferrpel
-  Ferr
-  Glau
-  Gyp
-  Hvymin
-  Kaol
-  Marl
-  Minxl
-  Nodule
-  Phos
-  Pyr
-  Salt
-  Sandy
-  Silt
-  Sil







STRINGER

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TEXTURE

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

-  Grainst
-  Lithogr
-  Microxln
-  Mudst
-  Packst
-  Wackst






OIL SHOW

-  Gas show
-  Good
-  Fair
-  Poor
-  Dead

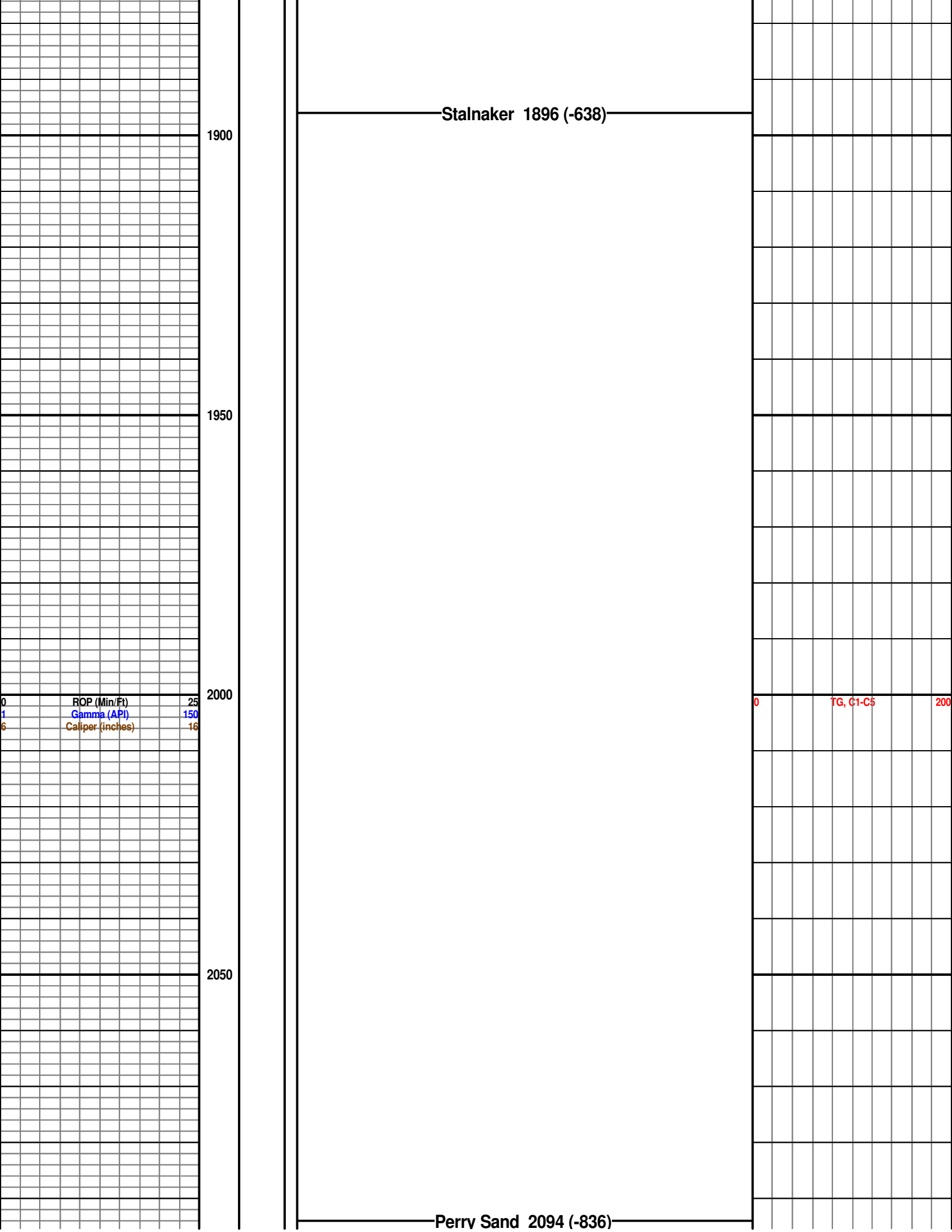
INTERVAL

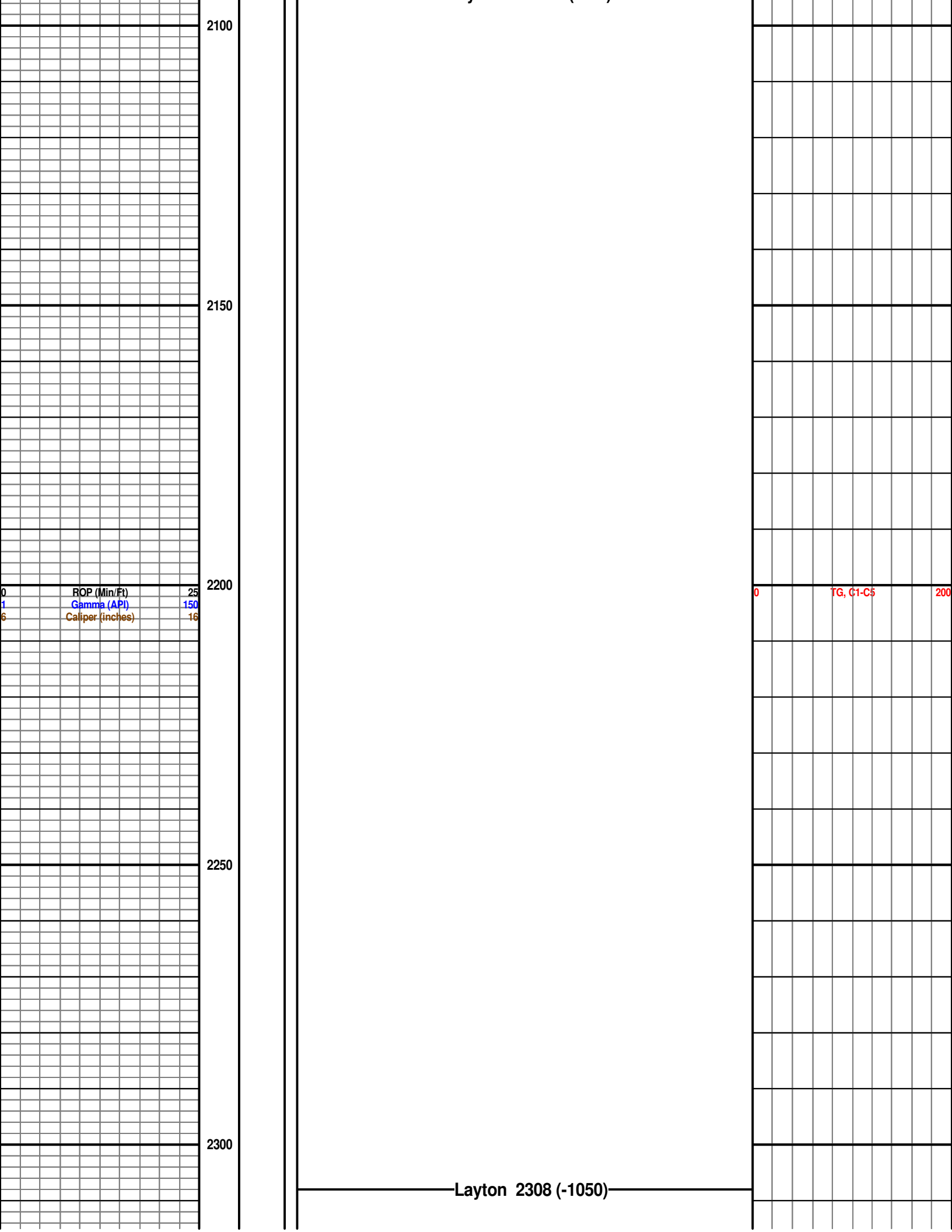
-  Dst
-  Core
-  Dst
-  Straddle test

EVENT

-  Rft
-  Sidewall
-  Dst
-  Open hole
-  Perforations

Curve Track 1				Depth	Lithology	Oil Shows	Geological Descriptions	Engineering Data			
ROP (Min/Ft)	Gamma (API)	Caliper (inches)	TG (Units)					C1 (units)	C2 (units)	C3 (units)	C4 (units)
0	1	6	0	1850			Lasso Energy, LLC Carver #1 'OWWO' 660' FSL and 660' FEL Sec. 25 - T31S - R04E Cowley Co., KS API: 15-035-19261-0001 Elevation: 1255' GL 1258' KB Geologist: Derek W. Patterson Please Note: All tops picked from surface to 2720' were obtained from the original electric log ran by the original operator. The vertical depths of the tops have been adjusted to match the sub-sea values from the electric log.	0	TG, C1-C5	200	





2100

2150

2200

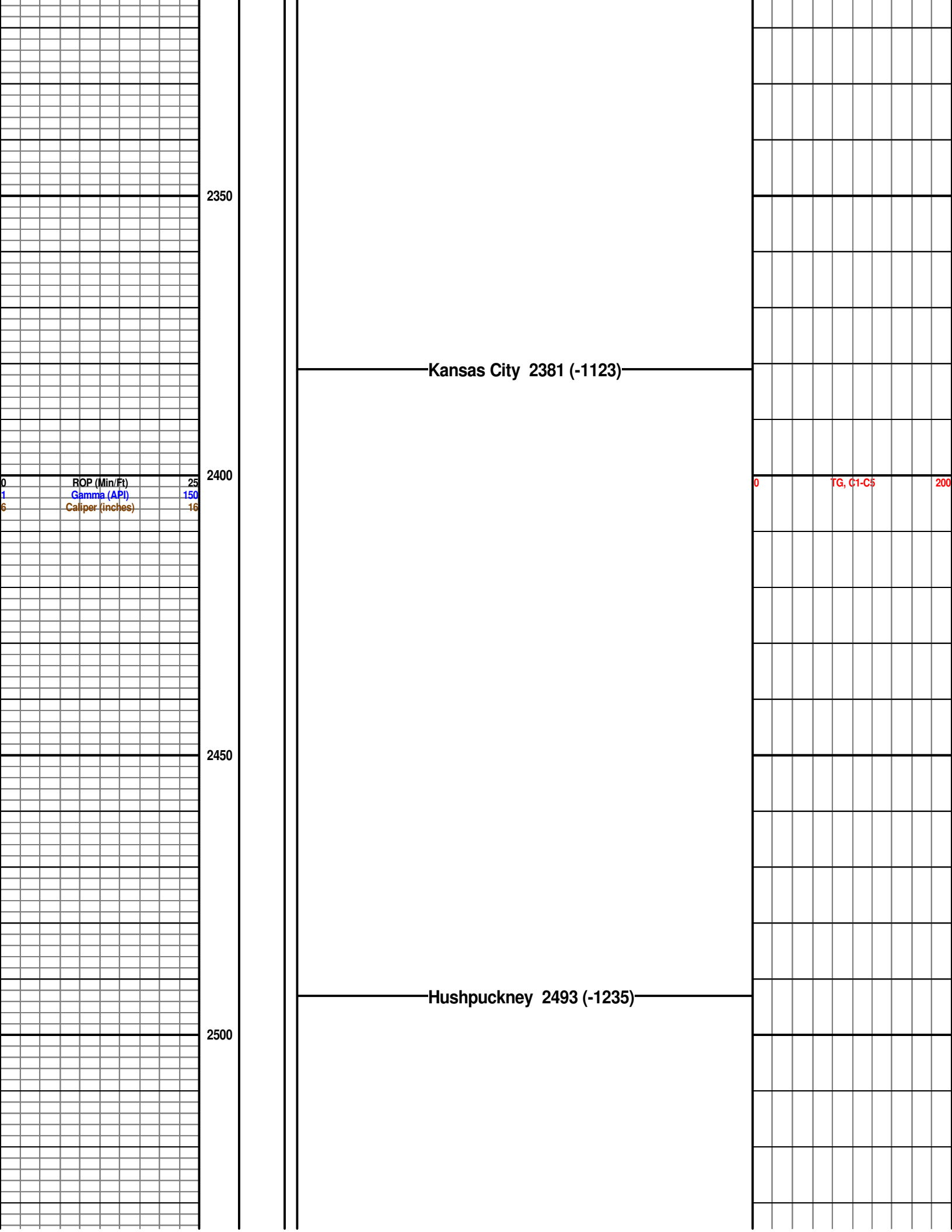
2250

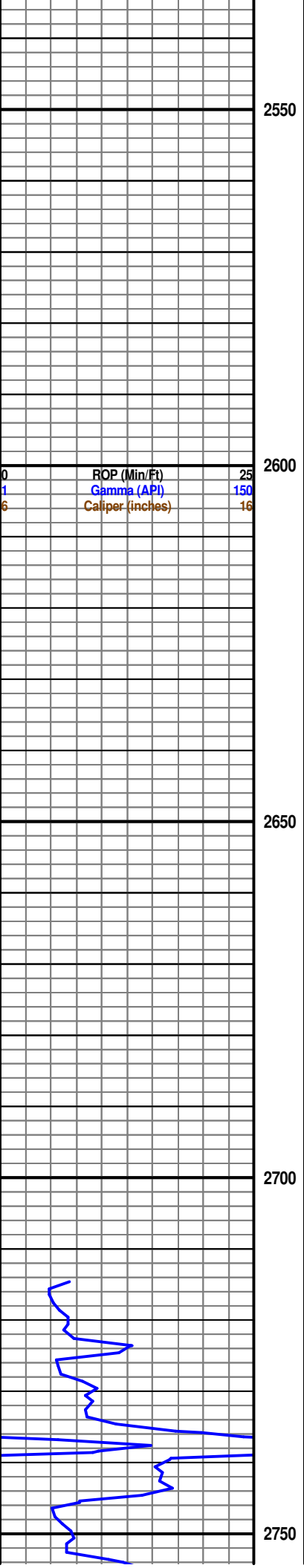
2300

0	ROP (Min/Ft)	25
1	Gamma (API)	150
6	Caliper (inches)	16

0	TG, C1-C5	200
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Layton 2308 (-1050)





Base Kansas City 2544 (-1286)

2550

ROP (Min/Ft) 25
Gamma (API) 150
Caliper (inches) 16

2600

0 TG, C1-C5 200

Altamont 2647 (-1389)

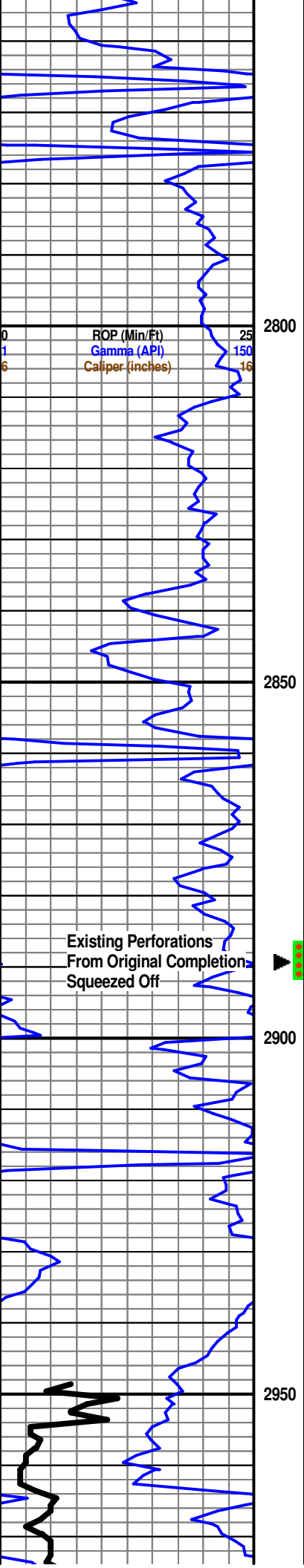
2650

Pawnee 2714 (-1456)

All log tops from this point down obtained from Gamma Ray Neutron electric log performed by Log-Tech on 7.30.12.

Fort Scott 2745 (-1487)

2750



Cherokee 2774 (-1516)

2800

2850

Cattleman Sand 2876 (-1618)

2900

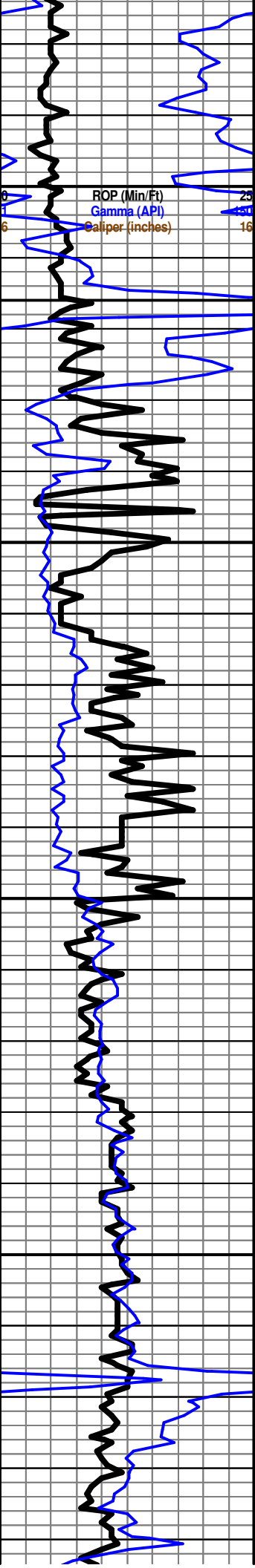
Bartlesville Sand 2942 (-1684)

2950

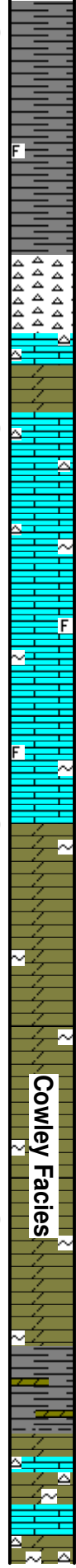
Start 10' Wet & Dry Samples @ 2960'
 Most analyzation was done with dry samples.

VERY POOR SAMPLE QUALITY - NO DESCRIPTIONS AVAILABLE

0 TG, C1-C5 200



3000
3050
3100
3150



Please Note: poor samples resulting from casing scale and trash in bottom of hole.

VERY POOR SAMPLE QUALITY - NO DESCRIPTIONS AVAILABLE

Please Note: Very poor sample quality until the 3030' sample.

VERY POOR SAMPLE QUALITY - Appears to be all Shale: gray dk gray, mostly soft and mushy, sample washes dk gray.

Mississippian 3028 (-1770)

SAMPLE QUALITY IMPROVING - Flood Chert: white bone white lt cream, opaque with some translucent, mostly fresh and sharp with some scattered slightly weathered pieces, sub-fossiliferous, poor saturated/edge staining in most, visible oily residue/bubbles across sample, spotty lt yellow fluorescence, no visible cut fluorescence, no odor. Please Note: electric log reads very limey section; zone may be higher in Limestone content than in Chert.

E-Log reads interbedded Dolomite zone.

Limestone: tan lt brown dk cream, mostly grainy slightly dense matrix, vfxln, mostly barren, glauconitic in part, fair interxln porosity in most, no shows noted, no fluorescence, no cut fluorescence, with Chert: as above, most staining drops out, no live shows, no fluorescence, no cut fluorescence, no odor.

Limestone: tan lt brown dk cream, mostly grainy slightly dense matrix, vfxln, mostly barren, glauconitic in part, fair interxln porosity in most, no shows noted, no fluorescence, no cut fluorescence, with continued scattered Chert, no shows, no fluorescence, no cut fluorescence, no odor.

Limestone: tan lt brown dk cream, mostly grainy slightly dense matrix, vfxln, mostly barren with some scattered sub-fossiliferous, glauconitic in part, fair interxln porosity in most, no shows noted, no fluorescence, no cut fluorescence, no odor.

Limestone: tan lt brown dk cream, mostly grainy slightly dense matrix, vf-fxln, sub-fossiliferous to barren, glauconitic in part, fair interxln porosity in most, no shows noted, no fluorescence, no cut fluorescence, no odor.

FLOOD Dolomite: tan lt brown brown, mostly dense matrix, vf-fxln, barren, scattered sand inclusions, glauconitic, fair interxln porosity in most, no shows noted, no fluorescence, no cut fluorescence, no odor.

Dolomite: brown dk brown, very dense tight matrix, vfxln, barren, glauconitic in part, overall poor interxln porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.

Cowley Facies

Dolomite: brown dk brown, very dense tight matrix, vfxln, barren, glauconitic in part, overall poor interxln porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.

E-Log reads Shale and Dolomite stringers through this interval.

Dolomite: dk brown dk gray, dense tight matrix, vfxln, barren, glauconitic, poor interxln porosity, no shows noted, no fluorescence, no cut fluorescence, with INFLUX Chert: lt gray off white, opaque, fresh and sharp, limey, no shows noted, no fluorescence, no cut fluorescence, and INFLUX Limestone: white off white smokey gray, sub-chalky to sub-cherty matrix, microxln, fossiliferous, poor visible porosity, no shows noted, very poor mineral fluorescence, no cut fluorescence, no odor in sample.

5 1/2" Casing
4 1/2" Casing

Free Oil in Pits
From 2970' - 3000'

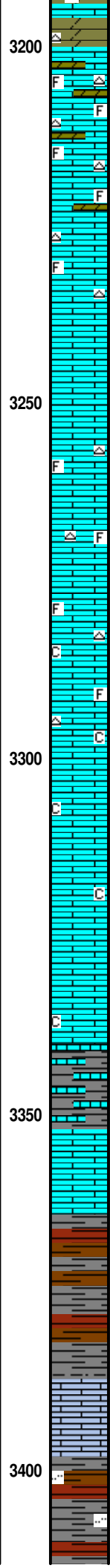
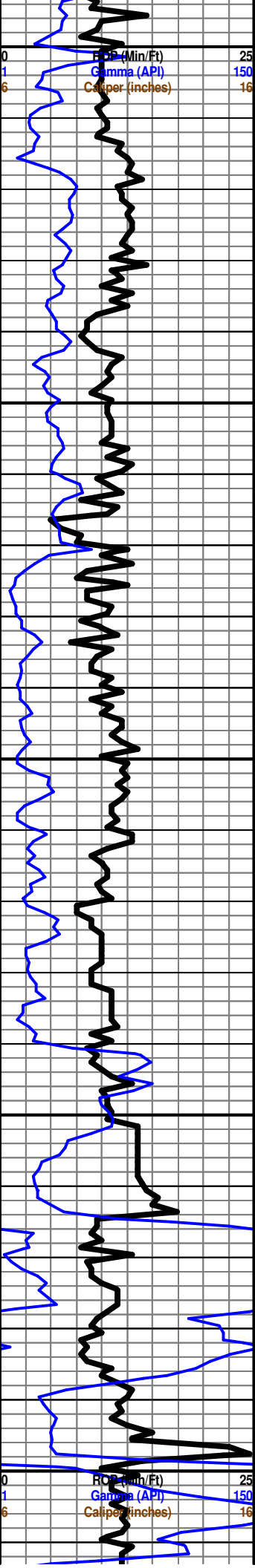
TG, C1-C5

Free Oil in Pits
From 3016' - 3017'

Free Oil in Pits
From 3021' - 3025'

Tight Spot
(3025' - 3035')
On Connections

Fluid Loss
(3059' - 3065')



Limestone: white off white some lt gray mottled, sub-chalky to sub-cherty matrix, microxln, fossiliferous, poor visible porosity, no shows noted, poor mineral fluorescence, no cut fluorescence, with scattered Chert: off white lt gray smokey gray, opaque, fresh and sharp, no shows noted, no fluorescence, no cut fluorescence, and Dolomite stringers: as above, no odor in sample.

Limestone: white off white lt gray some mottled, mostly dense sub-chalky to sub-cherty matrix, microxln, fossiliferous to sub-fossiliferous, poor visible porosity, no shows noted, spotty to even bright lt yellow mineral fluorescence, no cut fluorescence, with continued scattered Chert: as above, no shows noted, no fluorescence, no cut fluorescence, most Dolomite stringers drop out.

3240' & 3250' Samples - VERY POOR SAMPLE QUALITY - ABUNDANT UPHOLE TRASH.

SAMPLE QUALITY SLIGHTLY IMPROVING (3260' & 3270') - Limestone: white off white lt gray, mostly dense sub-cherty matrix, microxln, scattered fossiliferous, some calcite inclusions, poor interxln porosity, no shows noted, spotty to even bright lt yellow-white mineral fluorescence, no cut fluorescence, with some continued scattered Chert: as above, no shows noted.

SAMPLE QUALITY FAIR AT BEST - Appears to be Limestone: white off white lt gray, mostly dense sub-chalky to sub-cherty matrix, microxln, scattered fossiliferous, some calcite inclusions, poor interxln porosity, no shows noted, spotty to even bright lt yellow-white mineral fluorescence, no cut fluorescence, with trace Chert: as above, carrying abundant Shale in sample: possibly sluff from uphole.

INFLUX Limestone: off white lt cream, softer sub-chalky to chalky matrix, vfxln, mostly barren, poor interxln porosity in most, no shows noted, poor dull white mineral fluorescence, no cut fluorescence, most Chert drops out, still carrying fair amount of Shale in sample: possibly sluff from uphole.

Limestone: off white lt cream lt gray, softer sub-chalky to chalky matrix, vfxln, mostly barren, poor interxln porosity in most, no shows noted, poor dull white-yellow mineral fluorescence, no cut fluorescence, still carrying fair amount of Shale (sluff?).

E-Log reads Shaley zone.

Limestone: lt cream lt gray, slightly dense to dense tight matrix, vf-microxln, mostly barren, poor interxln porosity in most, no shows noted, poor dull white-no mineral fluorescence, no cut fluorescence, sluff dropping out.

Northview Shale 3364 (-2106)

INFLUX Shale: gray dk gray brick red purple some brown, blocky to rounded, hard to soft, fair amount of fissile material.

DRASTIC DECREASE IN SAMPLE QUALITY (3390') - Appears to be Shale: as above.

Compton 3387 (-2129)

3396' cfs 32" - INFLUX Limestone: off white lt gray some lt cream and pale green, mostly dense matrix, vfxln, barren, poor interxln porosity, no shows noted, spotty lt yellow edge mineral fluorescence in scattered pieces, no cut fluorescence.

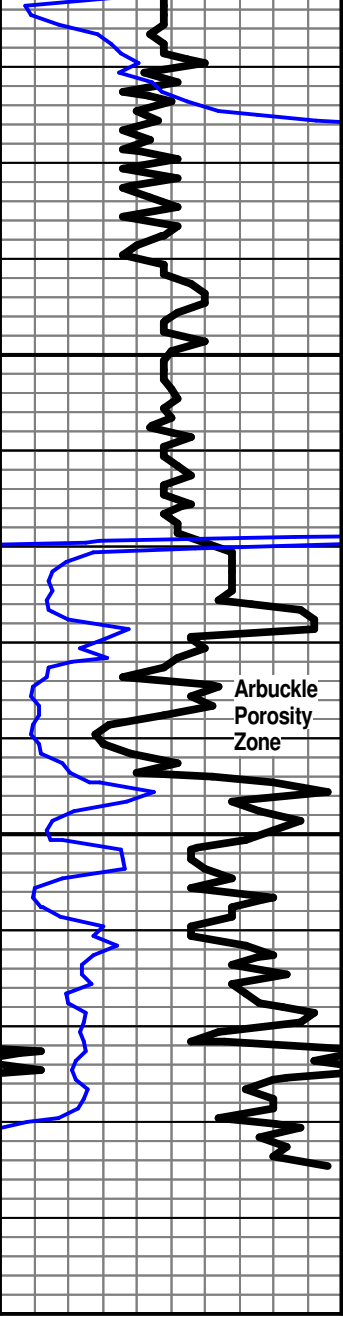
Kinderhook 3398 (-2140)

INFLUX Shale: gray dk gray dk red brick red brown some purple, most dense and blocky with some scattered softer material, silty in part, abundant fissile to splintery pieces, sample washes dk gray.

Increase in pump rate and SPM @ 3235'.
PP=500-600 psi, SPM=42

TG, C1-C5

TG, C1-C5



3450

3500

Arbuckle
Porosity
Zone

3550

Shale: gray dk gray dk red some dk brown, nearly all dense and hard, silty in part, abundant fissile to splintery material, sample washes dk gray.

Shale: gray dk gray dk red some dk brown, nearly all dense and hard, silty in part, abundant fissile to splintery material, sample washes dk gray.

Shale: INFLUX black, gray dk gray some dk red to dk brown, very dense and hard, majority of pieces fairly carbonaceous, silty in part, abundant fissile to splintery material, sample washes dk gray.

Shale: gray dk gray black some dk red to dk brown, very dense and hard, majority of pieces fairly carbonaceous, silty in part, abundant fissile to splintery material, sample washes dk gray.

Arbuckle 3470 (-2212)

Dolomite: It cream cream, dense tight matrix, vf-fxln, fair-poor rhombic development, scattered pyritic, fair-poor interxln porosity with majority of pieces having some chalk fill, few pieces with very poor show oil upon break (may be from mud system), even-spotty It whitish-yellow fluorescence, poor-fair bluish-white cut fluorescence in few pieces.

Dolomite: cream It cream, mostly dense matrix, vf-coarsexln, fair-good rhombic development in most, scattered pyritic, fair interxln porosity in most with some scattered chalk fill, scatters poor edge staining, couple pieces with poor-fair show oil upon break (may be from mud system), even It whitish-yellow fluorescence, fair bluish-white cut fluorescence in select pieces.

Dolomite: It gray It cream, dense tight matrix, decrease in xln size from above to vf-fxln, decrease in rhombic development to fair-poor, scattered pyritic, fair-poor interxln porosity in most with scattered chalk fill in select pieces, only couple pieces with very poor show oil droplets upon break (may be from mud system), even It whitish-yellow fluorescence, poor bluish-white cut fluorescence in few pieces.

Please Note: Arbuckle section carried strong odor from mud system with no way to tell if formation contributed to it.

Vis: 45-48

Down for Mud Pump repairs @ 3517', 1600 hrs 7.13.12.

DDRTD 3535 (-2277)

LTD 3526 (-2268)

Respectfully Submitted,
Derek W. Patterson

Lasso Energy LLC - Carver#1 – ACO-1 Information

1. The Carver #1 (API 15-035-19261-00-01) is a re-entry of the Tanner #1 from 1959. The Tanner #1 “feet from section line” information in KGS was incorrect. Lasso Energy LLC’s Intent to Drill C-1 was prepared with reference to KGS data. From the south line of the section, the footage is actually 660 feet, whereas KGS had incorrect data of 1320 feet from the south line of the section. Lasso Energy LLC’s ACO-1 for the Carver #1 reflects the accurate spot location and footages.
2. In the casing record section of the Carver #1 ACO-1, KOLAR required a numeral between 0 and 1000 to be inserted for “Number of Sacks of Cement”, and would not allow any text such as “N/A” or “unknown”. We recorded “0” as the number of sacks of cement for the Surface and the Production rows; however, due to the lack of availability of information for the 1959 well, this information is actually “unknown” rather than “0”. We had no way to ascertain the number of sacks of cement and no way to write a comment rather than a numeral on the ACO-1, due to KOLAR restrictions.

The top of the cement is at the surface for the 8 5/8” surface casing even though an unknown amount of sacks were used. The cement is visually seen at the surface.

The top of the cement behind the 5 ½” production casing is at 2380’ from the surface elevation according to a cement bond log performed by Lasso Energy LLC. Therefore an unknown amount of cement was pumped during the original completion that provided a top of cement at 2380”.

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

Sam Brownback, Governor

September 05, 2012

BRUCE D. KELSO
Lasso Energy LLC
PO Box 465
1125 SOUTH MAIN
Chase, KS 67524-0465

Re: ACO1
API 15-035-19261-00-01
CARVER 1
SE/4 Sec.25-31S-04E
Cowley 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 that the well samples submitted to the Well Sample Library be given maximum confidentiality.

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

Respectfully,
BRUCE D. KELSO