



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1078699  
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: \_\_\_\_\_

1078699

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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Layne Energy Operating, LLC
Well Name	Osburn 14K-11
Doc ID	1078699

All Electric Logs Run

Dual Induction
Compensated Density Neutron
Borehold Compensated Sonic
Cement Bond Log



**CONSOLIDATED**  
Oil Well Services, LLC



**ENTERED**

TICKET NUMBER 33506  
LOCATION Euler  
FOREMAN Rick Ledford

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

API# 15-125-32151

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12/22/11	4758	Osburn 144-11	11	323	13E	MG
CUSTOMER			TRUCK #			
Layne Energy			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 160			DRIVER			
CITY						
STATE						
ZIP CODE						
Sycamore						
KS						
67363						

JOB TYPE surface 0 HOLE SIZE 12 1/4" HOLE DEPTH 95' CASING SIZE & WEIGHT 8 5/8"  
 CASING DEPTH 64' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15" SLURRY VOL 24 bbl WATER gal/sk 6.5 CEMENT LEFT in CASING 10'  
 DISPLACEMENT 3.5 bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig up to 8 5/8" casing. Break circulation w/ fresh water.  
Mixed 100 sbs class A cement w/ 2% cacl2 + 2% gel @ 15"/gal. Displace w/  
3.5 bbl fresh water. Shut casing in w/ no-cement returns to surface. Job complete.  
Rig down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54013	1	PUMP CHARGE	825.00	825.00
5406	40	MILEAGE	4.00	160.00
11043	100 sbs	class A cement	14.95	1495.00
1102	190 #	2% cacl2	.74	140.60
11186	190 #	2% gel	.21	39.90
5407	4.7	ton mileage bulk trk	m/c	350.00
			Subtotal	3010.50
			SALES TAX 6.3%	105.56
			ESTIMATED TOTAL	3116.06

Revin 3737

AUTHORIZATION

*[Signature]*

TITLE

*[Signature]*

DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**CONSOLIDATED**  
Oil Well Services, LLC

**ENTERED**

TICKET NUMBER 33521

LOCATION Eureka, KS

FOREMAN Shannon Feck  
Rick Ledford

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT API # 15-125-32151**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-29-11	4758	Osburn 1412-11	11	325	13 E	MG
CUSTOMER <b>Layne Energy</b>			Gus Jones Thornton Tucker Wireline			
MAILING ADDRESS <b>P.O. Box 160</b>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <b>Sycamore</b>			520	Allen B		
STATE <b>KS</b>			515	John S		
ZIP CODE <b>67363</b>			637	Merle R		

JOB TYPE 2 stage 4 1/2" 6 HOLE SIZE 6 3/4" HOLE DEPTH 1506 CASING SIZE & WEIGHT 4 1/2 @ 10.50 #  
 CASING DEPTH 1490 15 6 1/2 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 1st stage 136-13.8 SLURRY VOL 2nd-44 Bbl WATER gal/sk 9.0 CEMENT LEFT in CASING None  
 DISPLACEMENT 2nd stage 23.7 DISPLACEMENT PSI 500 + 1000 MIX PSI 800 + 1600 RATE 5 BPM

REMARKS: Rig up to 4 1/2" casing set @ 1490.15. D.V. tool set @ 1194.09'. 1st stage  
 Break circulation w/ fresh water, mixed 100# caustic soda pre flush w/ 15-18 Bbl water, 10 Bbl spacer  
 w/ dye water, mixed 40 SKS T.S. cement w/ 8# kol-seal/sk, 1/8# phenoseal, 1/4% CFL-115, @ 13.6-  
 13.8 #/gal. Shut down wash out pump & lines & displace w/ 23.7 Bbl. Final pumping pressure of 500 psi  
 bumped plug to 1000 psi. Release pressure & plug held. Drop trip bomb & wait 15 minutes. Pressure up to  
 1000 psi & opened ports. Pumped 48 Bbl & cleaned cement off top of D.V. tool, 8 Bbl slurry to pit. Wait  
 3 hours on cement to sit up. Keeping hole full every 30 min. stage 2 Break circulation w/ 14 Bbl mixed  
 10 Bbl dye water, mixed 135 SKS T.S. Shut down wash out pump & lines & displace w/ 18.8 Bbl  
 Final pressure of 800 psi bumped plug & closed ports @ 1600 psi. 4 Bbl slurry to pit. Plug held good  
 centralizers on 2,6,8,10 D.V. Tool on # 7 Job Complete

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1030.00	1030.00
5406	40	MILEAGE	4.00	160.00
1126A	40 SKS	Thick Set Cement } 1st	19.20	768.00
1110A	320 #	Kol-seal @ 8#/SK } 5 stage	.46	147.20
1107A	10 #	Phenoseal @ 1/8#/SK	1.29	12.90
1135A	11 #	CFL-115 @ 1/4%	10.55	116.05
1103	100 #	Caustic Soda Pre Flush	1.61	161.00
1126A	135 SKS	Thick Set Cement } 2nd	19.20	2592.00
1110A	1080 #	Kol-Seal @ 8#/SK } stage	.46	496.80
1107A	34 #	Phenoseal @ 1/8#/SK	1.29	43.86
1135A	37 #	CFL-115 @ 1/4%	10.55	390.35
5502C	9 HRS	80 Bbl Var Truck (Cement Job)	90.00/HR	810.00
1123	5000 gal	City water	16.50/1000gal	82.50
5407A	9.7 Tons	Ton mileage bulk truck	1.34	519.92
4276	1	4 1/2 D.V. Tool (Stage collar)	2760.00	2760.00
4156	1	4 1/2 AFU Float Shoe	175.00	175.00
		"Thanks Shannon + Crew"	Sub total	10,265.58
		0416804	6.3% SALES TAX	487.99
			ESTIMATED TOTAL	10,753.57

Ravin 3737

AUTHORIZATION [Signature] TITLE [Signature] DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Air Drilling Specialist  
Oil & Gas Wells

**THORNTON AIR ROTARY, LLC**  
Office Phone: 620-879-2073

PO Box 449  
Caney, KS 67333

Date Started	<b>12/27/2011</b>
Date Completed	<b>12/29/2011</b>

Well No.	Operator	Lease	A.P.I #	County	State
<b>14K-11</b>	<b>Layne Energy Operating</b>	<b>Osborn</b>	<b>15-125-32151-00-00</b>	<b>Montgomery</b>	<b>Kansas</b>

1/4	1/4	1/4	Sec.	Twp.	Rge.
			<b>11</b>	<b>32</b>	<b>13 E</b>

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
<b>Sean/Chris</b>		<b>Consolidated</b>	<b>64' 8 5/8</b>	<b>1506</b>	<b>6 3/4</b>

### Formation Record

0-2	DIRT	963-1003	SANDY SHALE		
2-20	CLAY	1003-1021	SHALE		
20-24	RIVERROCK	1021-1043	LIME (OSWEGO)		
24-27	SHALE	1043-1053	BLK SHALE (SUMMIT)		
27-167	LIME	1053-1067	LIME		
167-215	SHALE	1067-1073	BLK SHALE (EXCELLO)		
215-306	SANDY SHALE	1073-1074	COAL (MULKY)		
306-311	LIME	1074-1079	LIME		
311-419	SHALE	1079-1100	SHALE		
419-430	SANDY SHALE	1100-1101	COAL (BEVIER)		
430-432	CLAY	1101-1115	SHALE		
432-441	SANDY SHALE	1115-1119	LIME (VERDIGRIS)		
441-442	COAL	1119-1120	COAL (CROWBERG)		
442-459	SANDY SHALE	1120-1156	SHALE		
459-500	SHALE	1156-1157	COAL (MINERAL)		
500-505	LMY SHALE	1157-1170	SHALE		
505-554	LIME	1170-1177	SAND		
554-571	SHALE	1177-1182	SHALE		
571-634	SAND	1182-1196	SAND		
634-649	SHALE	1196-1286	SHALE		
649-681	LIME	1286-1370	SANDY SHALE		
681-750	SHALE	1370-1402	SAND		
750-800	SANDY SHALE	1373	TRIPPED / TRICONE		
800-810	LIME	1402-1422	SHALE		
810-825	SHALE	1422-1441	SAND / OIL ODOR		
834	WENT TO WATER	1441-1497	CHAT (MISS.)		
825-910	SAND	1497-1506	LIME		
910-936	SHALE	1506	TD		
936-958	LIME (PAWNEE)				
958-963	BLACK SHALE				

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

April 13, 2012

Victor H Dyal  
Layne Energy Operating, LLC  
PO BOX 160  
SYCAMORE, KS 67363

Re: ACO1  
API 15-125-32151-00-00  
Osburn 14K-11  
SW/4 Sec.11-32S-13E  
Montgomery 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.

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

Respectfully,  
Victor H Dyal