



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1076904  
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: \_\_\_\_\_

1076904

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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**CONSOLIDATED**  
Oil Well Services, LLC

ENTERED

TICKET NUMBER 33524  
LOCATION Eureka, KS  
FOREMAN Shannon Fekf

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

**FIELD TICKET & TREATMENT REPORT**

CEMENT API # 15-125-32148

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
01-03-10	4758	Scovel # 8-11	11	325	13 E	MG
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Layne Energy			520	John S		
			667	Allen B		
MAILING ADDRESS						
P.O. Box 160						
CITY			STATE		ZIP CODE	
Sycamore			KS		67363	

JOB TYPE Surface 6 HOLE SIZE 11" HOLE DEPTH 65' CASING SIZE & WEIGHT 8 5/8"  
 CASING DEPTH 65' DRILL PIPE — TUBING — OTHER —  
 SLURRY WEIGHT 14.5-15\* SLURRY VOL 28 Bbl WATER gal/sk 6.5 CEMENT LEFT in CASING 15'  
 DISPLACEMENT 3.4 Bbl DISPLACEMENT PSI 100 MIX PSI 100 RATE 5 1/2 to 6 Bpm

REMARKS: Rig up to 8 5/8" casing. Break circulation with 7 Bbl Fresh water. Wash down 4" of casing. Mixed 110 SKS Class "A" cement with 3% Calcium, & 2% gel @ 14.5-15 1/2 gal. Displace with 3.4 Bbl of Fresh water & shut well in. Ran 2 Bbl dye water Ahead of Cement. Good circulation @ all times. No Cement returns to surface, but mud was getting thicker & darker so Cement wasn't too far down. Job Complete

"Thanks Shannon & crew"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	825.00	825.00
5406	40	MILEAGE	4.00	160.00
1104S	110 SKS	Class "A" Cement	14.95	1644.50
1102	311 #	Calcium @ 3%	.74	230.14
1118 B	207 #	Gel @ 2%	.21	43.47
5407	5.17	Ton mileage bulk truck	MYC	350.00
			Sub total	3253.11
			SALES TAX <u>6.3%</u>	120.84
			ESTIMATED TOTAL	3373.95

Revin 3737

AUTHORIZATION [Signature] TITLE Drilling Foreman DATE 01/03/10

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 33509  
LOCATION Everex  
FOREMAN Rick Ledford

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

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

API# 15-125-32148

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1/6/12	4758	Scove) 8-11	11	32	13E	MG
CUSTOMER			TRUCK #			
Layne Energy			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 160			DRIVER			
CITY			TRUCK #			
Sycamore			DRIVER			
STATE			TRUCK #			
KS			DRIVER			
ZIP CODE			TRUCK #			
67363			DRIVER			

Bus  
Trucks

JOB TYPE LIS B. HOLE SIZE 6 3/4 HOLE DEPTH 1548' CASING SIZE & WEIGHT 4 1/2" 10.5# new  
CASING DEPTH 1533' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 13.6# SLURRY VOL 12.20 cu yd / 420 cu ft WATER gal/sk 9.0 CEMENT LEFT in CASING 0'  
DISPLACEMENT 24.4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig up to 4 1/2" casing set @ 1533' O.V. Tool set @ 1235'. Break circulation w/ fresh water. Mixed 100# caustic soda pre-flush w/ 15 Bbl water, 5 Bbl water spacer, 5 Bbl dye water. Mixed 40 sacks thickset cement w/ 8# Kal-seal/sk, 1/8" phenoseal/sk, 1/4% CFZ-115 @ 13.6#/gal. Washout pump + lines, release flex plug. Displace w/ 24.4 Bbl water. Final pump pressure 400 PSI. Bump plug to 900 PSI, release pressure, plug held. Prop trip bench, wait 15 mins. Open parts @ 1100 PSI, circulated 8 Bbl slurry to pit. Stage 1 complete. Wait 3 hrs. Break circulation w/ fresh water. Pump 10 Bbl dye water. Mixed 135 sacks thickset cement w/ 8# Kal-seal/sk, 1/8" phenoseal/sk + 1/4% CFZ-115 @ 13.6#/gal. Washout pump + lines, release casing plug. Displace w/ 19.6 Bbl water. Final pump pressure 800 PSI. Close parts @ 1300 PSI. Bump plug to 1600 PSI. Tool closed, release pressure, plug held. Good cement returns to surface = 8 Bbl slurry to pit. Job complete. Rig down.

"THANK YOU"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1030.00	1030.00
5406	0	MILEAGE on location	n/c	n/c
1126A	40 sacks	thickset cement	19.20	768.00
1110A	320#	8# Kal-seal/sk	.46	147.20
1107A	10#	1/8" phenoseal/sk	1.29	12.90
1135A	11#	1/4% CFZ-115	10.55	116.05
1103	100#	caustic soda pre-flush	1.61	161.00
1126A	135 sacks	thickset cement	19.20	2592.00
1110A	1080#	8# Kal-seal/sk	.46	496.80
1107A	17#	1/8" phenoseal/sk	1.29	21.93
1135A	37#	1/4% CFZ-115	10.55	390.35
5502C	9 hrs	80 Bbl VAC. TRK	90.00	810.00
1123	6000 gals	city water	16.50/1000	99.00
5407A	9.63	ton mileage bulk trk	1.34	516.17
4276	1	4 1/2" O.V. tool (stage collar)	2760.00	2760.00
4156	1	4 1/2" AFV float shoe	175.00	175.00
		subtotal		10,096.40
		SALES TAX	6.3%	487.63
		ESTIMATED TOTAL		10,584.03

Ravin 3737

AUTHORIZATION: Sandy Meek

TITLE: Rick Ledford

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>1/3/2012</b>
Date Completed	<b>1/6/2012</b>

Well No.	Operator	Lease	A.P.I #	County	State
<b>8-11</b>	<b>Layne Energy Operating</b>	<b>Scovel</b>	<b>15-125-32148-00-00</b>	<b>Montgomery</b>	<b>Kansas</b>

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

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
<b>Chris</b>		<b>Consolidated</b>	<b>65' 8 5/8</b>	<b>1548</b>	<b>6 3/4</b>

**Formation Record**

0-6	DIRT	818-833	LIME (LENAPAH)	1357-1369	RED SHALE
6-12	CLAY	833-841	SHALE	1369-1416	SHALE
12-26	WET SANDY CLAY	841-847	LIME	1416-1448	SAND
26-50	LIME	847-856	SHALE	1420	G.T.-19#, 1 1/2" = 1824 MCF
50-98		856-911	SAND	1420-1440	FIRST CORE
98-120	SHALE	911-959	SANDY SHALE	1440-1456	SECOND CORE
120-168	LIME	959-961	COAL	1448-1459	SHALE
168-183	LMY SHALE	961-990	LIME (PAWNEE)	1459-1509	MISS. CHAT
183-307	SHALE	980	ODOR	1509-1548	BROWN LIME
307-312	LIME	990-1049	BLACK SHALE	1548	TD
312-431	SHALE	1049-1075	LIME (OSWEGO)		
431-465	SAND	1075-1082	BLK SHALE (SUMMIT)		
465-485	SANDY SHALE	1082-1099	LIME (OSWEGO)		
485-506	SHALE	1099-1106	BLK SHALE (MULKY)		
510	WENT TO WATER	1106-1110	LIME		
506-520	LIME	1110-1128	SHALE		
520-535	SHALE	1128-1129	COAL (BEVEIR)		
535-583	LIME	1129-1147	SHALE		
583-610	SANDY SHALE	1147-1149	LIME (V-LIME)		
610-635	SAND	1149-1151	SHALE		
611	G.T.-70#, 1/2" = 510 MCF	1151-1152	COAL (CROWBERG)		
635-651	SANDY SHALE	1152-1194	SHALE		
651-660	SHALE	1194-1195	COAL		
660-706	LIME	1195-1234	SHALE		
710	G.T. - SAME	1234-1252	SAND		
706-770	SHALE	1252-1280	SANDY SHALE		
770-776	LIME	1280-1303	SHALE		
776-785	SHALE	1303-1321	SAND		
785-810	SANDY SHALE	1321-1343	SHALE		
810-818	SHALE	1343-1357	SANDY 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

March 21, 2012

Mike J Murphy  
Layne Energy Operating, LLC  
PO BOX 160  
SYCAMORE, KS 67363

Re: ACO1  
API 15-125-32148-00-00  
Scovel 8-11  
NE/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,  
Mike J Murphy