



KANSAS CORPORATION COMMISSION 1066147  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33365  
Name: Layne Energy Operating, LLC  
Address 1: P O Box 160  
Address 2: \_\_\_\_\_  
City: Sycamore State: KS Zip: 67363 + \_\_\_\_\_  
Contact Person: Victor H Dyal  
Phone: ( 620 ) 627-2499  
CONTRACTOR: License # 33606  
Name: Thornton Air Rotary, LLC  
Wellsite Geologist: N/A  
Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW
- 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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled    Permit #: \_\_\_\_\_
- Dual Completion    Permit #: \_\_\_\_\_
- SWD    Permit #: \_\_\_\_\_
- ENHR    Permit #: \_\_\_\_\_
- GSW    Permit #: \_\_\_\_\_

<u>04/05/2011</u>	<u>04/06/2011</u>	<u>04/11/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-205-27926-00-00

Spot Description: \_\_\_\_\_  
NE NW SE SE Sec. 34 Twp. 30 S. R. 14  East  West  
1305 Feet from  North /  South Line of Section  
825 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW

County: Wilson  
Lease Name: Metzger Well #: 16C-34

Field Name: \_\_\_\_\_  
Producing Formation: N/A

Elevation: Ground: 910 Kelly Bushing: 0

Total Depth: 1262 Plug Back Total Depth: 1155

Amount of Surface Pipe Set and Cemented at: 43 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: 1155  
feet depth to: 0 w/ 130 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 0 bbls

Dewatering method used: Evaporated

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

- Letter of Confidentiality Received  
Date: 10/27/2011
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: Deanna Garbo Date: 10/31/2011



1066147

Operator Name: Layne Energy Operating, LLC Lease Name: Metzger Well #: 16C-34  
 Sec. 34 Twp. 30 S. R. 14  East  West County: Wilson

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Compensated Density Neutron Dual Induction	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum See attached
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CASING RECORD <input checked="" 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
Surface	11	8.625	24	21	Type 1	8	
Production	6.75	4.5	10.5	1155	Thickset	130	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
— Perforate				
— Protect Casing	-			
— Plug Back TD				
— Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.			Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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EM

TICKET NUMBER 30320  
 LOCATION Eureka, KS  
 FOREMAN Shannon Feck

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8678

FIELD TICKET & TREATMENT REPORT  
 CEMENT Api # 15-205-2792L

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-11-11	4750	metzger 16c-34	34	30	14 E	Wilson
CUSTOMER Layne Energy			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 160			495	Alan M.		
CITY Sycamore			515	calin		
STATE KS						
ZIP CODE						

JOB TYPE Long string <sup>oil</sup> HOLE SIZE 6 3/4 HOLE DEPTH 1262 CASING SIZE & WEIGHT 4 1/2" 10.50#  
 CASING DEPTH 1256 DRILL PIPE --- TUBING --- OTHER ---  
 SLURRY WEIGHT 12.9-13.4 SLURRY VOL 41 BBL WATER gal/bbl 8.0 CEMENT LEFT IN CASING None  
 DISPLACEMENT 18.75 DISPLACEMENT PSI 8-13000 MIX PSI --- RATE 4.5 BBL/min

REMARKS: Rig up to 4 1/2 casing, Break circulation with 30 BBL Fresh water, Pump 10 SK gel flush with hulls, 5 BBL water spacer, 15 BBL Caustic Soda per flush 10 BBL Dy + water. mixed 130 SKS Thickset w/ 9# Kol-seal/sk 1/2# phenosal/sk + 1/4% CFI-115 @ 12.9-13.4 gal. Washout pump + lines release plug. Displace with 18.75 BBL water. Final pumping pressure of 800 psi bumped plug to 1300 psi. wait two minutes, release pressure, float well. Circulated 6.75 BBL slurry to pit, good circulation @ all times. Unsur on pipe tally. Job complete, cement fall back.  
 "Thanks Shannon + Crew"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	975.00	975.00
5406	40	MILEAGE	4.00	160.00
1126A	130 SKS	Thickset cement	18.30	2379.00
1110A	1040 #	9# Kol-seal/sk	.44	457.60
1107A	16 #	1/2 phenosal/sk	1.22	19.52
1135A	30 #	1/4% CFI-115	9.95	298.50
1119B	500 #	gel - flush	.20	100.00
1105	50 #	Hulls	.42	21.00
1103	100 #	Caustic Soda	1.52	152.00
5407A	7.15	ton-mileage bulk truck	1.26	360.36
4453	1	4 1/2 Latch down plug	155.00	155.00
				5011.98
		6.3%	SALES TAX	316.12
			ESTIMATED TOTAL	5328.10

Revised 3/37  
 AUTHORIZATION [Signature] TITLE 240711  
 DATE 4-11-11

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	4/5/2011
Date Completed	4/6/2011

Well No.	Operator	Lease	A.P.I #	County	State
16C-34	Layne Energy Operating	Metzger	15-205-27926-00-00	Wilson	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			34	30	14

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Billy	Oil	8	42.8' 8 5/8	1262	6 3/4

### Formation Record

0-8	DIRT	935-936	SAND		
8-76	LIME (WET)	936-968	SANDY SHALE		
76-290	LMY SHALE	968-995	LIME (OSWEGO)		
290-299	LIME	995-1004	BLK SHALE (SUMMIT)		
299-408	SAND (WET)	1004-1014	LIME		
360	WENT TO WATER	1014-1018	BLK SHALE (EXCELLO)		
408-428	SANDY SHALE	1018-1019	COAL (MULKEY)		
428-432	LIME	1019-1021	SHALE		
432- 444	SHALE	1021-1025	LIME		
444-546	LIME	1025-1066	SHALE		
546-554	BLACK SHALE	1066-1067	COAL (BEVIER)		
554-650	LIME	1067-1084	SHALE		
650-704	SHALE	1084-1086	LIME (V-LIME)		
704-727	LMY SHALE	1086-1087	SHALE		
727-738	SANDY SHALE	1087-1088	COAL (CROWBERG)		
738-749	SHALE	1088-1129	SANDY SHALE		
749-759	LIME	1129-1130	COAL (MINERAL)		
759-764	BLACK SHALE	1130-1172	SHALE		
764-771	LMY SHALE	1162	GAS TEST-SLIGHT BLOW		
771-780	SAND / LITE ODOR	1172-1177	BLACK SHALE		
780-791	SANDY SHALE	1177-1178	COAL		
791-876	SHALE	1178-1191	SHALE		
876-878	LIME	1191-1196	SANDY SHALE		
878-879	COAL (MULBERRY)	1196-1201	BLK SAND/LITE OIL ODOR		
879-881	SHALE	1201-1203	COAL		
881-911	LIME (PAWNEE)	1203-1205	BLACK SAND		
911-913	BLACK SHALE	1205-1247	SANDY SHALE		
913-916	LIME	1247-1262	SHALE		
916-920	BLK SHALE (LEXINGTON)	1262	TD		
920-935	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

October 27, 2011

Victor H Dyal  
Layne Energy Operating, LLC  
P O Box 160  
Sycamore, KS 67363

Re: ACO1  
API 15-205-27926-00-00  
Metzger 16C-34  
SE/4 Sec.34-30S-14E  
Wilson 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

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

October 28, 2011

Victor H Dyal  
Layne Energy Operating, LLC  
P O Box 160  
Sycamore, KS 67363

Re: ACO-1  
API 15-205-27926-00-00  
Metzger 16C-34  
SE/4 Sec.34-30S-14E  
Wilson County, Kansas

Dear Victor H Dyal:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 04/05/2011 and the ACO-1 was received on October 27, 2011 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department