



KANSAS CORPORATION COMMISSION 1065024
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: Thomton 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>03/28/2011</u>	<u>03/29/2011</u>	<u>04/27/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-205-27924-00-00

Spot Description: _____
NE SE SW SE Sec. 29 Twp. 30 S. R. 14 East West

495 Feet from North / South Line of Section

1485 Feet from East / West Line of Section

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

County: Wilson

Lease Name: Ratzlaff Well #: 15J-29

Field Name: _____

Producing Formation: Cattleman

Elevation: Ground: 906 Kelly Bushing: 0

Total Depth: 1337 Plug Back Total Depth: 1267

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: 1267
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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Gertler Date: 10/14/2011



1065024

Operator Name: Layne Energy Operating, LLC Lease Name: Ratzlaff Well #: 15J-29
 Sec. 29 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	43	Type 1	8	
Production	6.75	4.5	10.5	1267	Thickset	130	

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	-			

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
2	Cattleman	450 gallons 15% HCL, 9,800 lbs 18/30 & 12/20 sand, 280 bbls gelled water	1163.5' to 1167.5' - 1144'

TUBING RECORD: Size: <u>2.375</u> Set At: <u>1211</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>04/27/2011</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>11.42</u>	Gas Mcf <u>13.71</u>	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" 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 (Specify) _____	PRODUCTION INTERVAL: <u>1144' - 1167.5'</u>
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CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 30349
LOCATION EUREKA
FOREMAN Kevin McCoy

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

FIELD TICKET & TREATMENT REPORT

CEMENT API # 15-205-27924

KT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-31-11	4758	RATZLAFF 15 J-29	29	30 S	14E	WILSON
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Layne Energy			520	John S		
MAILING ADDRESS			515	Calvin H.		
P.O. Box 160						
CITY	STATE	ZIP CODE				
Sycamore	Ks					

JOB TYPE Longstring 0 HOLE SIZE 6 3/4 HOLE DEPTH 1337' CASING SIZE & WEIGHT 4 1/2 10.5# New
 CASING DEPTH 1266' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.4# SLURRY VOL 41 BBL WATER gal/sk 9.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 20.1' BBL DISPLACEMENT PSI 800 BUMP PSI 1300 Bump Plug RATE _____

REMARKS: Safety Meeting: Rig up to 4 1/2 Casing. BREAK Circulation w/ 25 BBL Fresh water. Pump 10 sks Gel Flush w/ Halls, 5 BBL water spacer, 15 BBL Caustic Soda Pro Flush, 10 BBL Dye water. Mixed 130 sks Thick Set Cement w/ 8" Kol-Seal / sk, 1/8" Pheno Seal / sk, 1/4" CFL-115 @ 13.4# / gal. Wash out Pump & Lines. Release Latch down Plug. Displace w/ 20.1' BBL Fresh water. Final Pumping Pressure 800 PSI. Bump Plug to 1300 PSI. Wait 2 minutes. Release Pressure. Float & Plug Held. Good Cement Returns to Surface = 4 BBL Slurry to Pit. Job Complete. Rig down.

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
1126 A	130 SKS	THICK Set Cement	18.30	2379.00
1110 A	1040 "	KOL-SEAL 8" / SK	.44 "	457.60
1107 A	16 "	Pheno SEAL / SK	1.22 "	19.52
1135 A	30 "	CFL-115 1/4"	9.95 "	298.50
1118 B	500 "	Gel Flush	.20 "	100.00
1105	50 "	Halls	.42 "	21.00
1103	100 "	CAUSTIC SODA	1.52 "	152.00
5407 A	7.15 Tons	40 Miles Buck Delv.	1.26	360.36
4156	1	4 1/2 Flapper Valve Float shoe	175.00	175.00
4453	1	4 1/2 Latch down Plug	155.00	155.00
		Sub Total		5252.98
		SALES TAX 6.3%		236.75
		ESTIMATED TOTAL		5489.73

Revin 3737

THANK YOU
040300

AUTHORIZATION Ph D along TITLE _____ 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	3/28/2011
Date Completed	3/29/2011

Well No.	Operator	Lease	A.P.I #	County	State
15J-29	Layne Energy Operating	Ratzlaff	15-205-27924-00-00	Wilson	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			29	30	14

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Billy	Oil	8	42.8' 8 5/8	1337	6 3/4

Formation Record

0-10	DIRT	893-924	LIME (PAWNEE)	1206-1221	SHALE
10-18	CLAY	924-928	BLK SHALE (LEXINGTON)	1221-1222	COAL
18-126	SHALE	928-931	LIME	1222-1240	SHALE
126-171	LIME	931-934	BLK SHALE	1240-1250	RED SHALE
171-190	SHALE	934-974	SHALE	1250-1285	SHALE
190-363	LMY SHALE	974-996	LIME (OSWEGO)	1285-1286	COAL
363-366	LIME	996-1003	BLK SHALE (SUMMIT)	1286-1319	SHALE
366-400	SANDY SHALE	1003-1009	LIME	1319-1324	MISS. CHAT (MISS.)
400-420	SAND (DAMP)	1009-1014	BLK SHALE (MULKEY)	1324-1337	BROWN LIME
420-421	COAL	1014-1015	COAL	1337	GAS TEST-16#, 1/4", MCF-40.9
421-475	LMY SHALE	1015-1019	LIME	1337	TD
475-496	LIME	1019-1061	SHALE		
496-501	BLACK SHALE	1061-1062	COAL		
501-507	SHALE	1062-1078	SHALE		
507-590	LIME / 546 - WATER	1078-1080	LIME (V-LIME)		
590-599	BLACK SHALE	1080-1082	SHALE		
599-672	LIME	1082-1083	COAL (CROWBERG)		
611	GAS TEST -SLIGHT BLOW	1083-1090	SANDY SHALE		
672-681	BLACK SHALE	1090-1122	SHALE		
681-745	SHALE	1122-1123	COAL (MINERAL)		
745-771	SANDY SHALE	1123-1146	SHALE		
771-783	LIME	1137	GAS TEST-2#, 1/4", MCF-12.7		
783-794	LMY SHALE	1146-1153	SANDY SHALE/LITE OIL ODOR		
794-806	SAND	1153-1160	SHALE		
806-816	SANDY SHALE	1160-1161	COAL		
816-855	SHALE	1161-1170	SHALE		
855-859	SANDY SHALE	1170-1175	BROWN SAND /OIL ODOR		
859-864	SAND / OIL ODOR	1175-1177	COAL (WEIR)		
864-892	SANDY SHALE	1177-1198	SHALE		
892-893	COAL (MULBERRY)	1198-1206	SAND		