

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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

11/2/12

OPERATOR: License # 33365
Name: Layne Energy Operating, LLC
Address 1: 1900 Shawnee Mission Parkway
Address 2: _____
City: Mission Woods State: KS Zip: 66205 + 2001
Contact Person: Victor H. Dyal
Phone: (913) 748-3960
CONTRACTOR: License # 33606
Name: Thornton Air Rotary, LLC
Wellsite Geologist: _____
Purchaser: _____

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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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth: _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

<u>7/29/2010</u>	<u>7/30/2010</u>	<u>8/21/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-32004-00-00

Spot Description: _____

NW NE SW SE Sec. 5 Twp. 31 S. R. 14 East West

1,510 Feet from North / South Line of Section

1,918 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Montgomery

Lease Name: Lawrence Well #: 7G-5

Field Name: Unnamed

Producing Formation: Weiser Sand

Elevation: Ground: 913' Kelly Bushing: N/A

Total Depth: 1262' Plug Back Total Depth: 939'

Amount of Surface Pipe Set and Cemented at: 42 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: N/A Feet

If Alternate II completion, cement circulated from: 939'

feet depth to: Surface w/ 135 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: N/A ppm Fluid volume: N/A bbls

Dewatering method used: N/A - Air Drilled

Location of fluid disposal if hauled offsite: _____

Operator Name: N/A

Lease Name: N/A License #: N/A

Quarter N/A Sec. N/A Twp. N/A S. R. N/A East West

County: N/A Permit #: N/A

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Victor H. Dyal
Title: Manager of Engineering Date: 11/2/2010

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- Letter of Confidentiality Received
Date: 11/2/10 ~ 11/2/12 **NOV 03 2010**
- Confidential Release Date: _____
- Wireline Log Received **KCC WICHITA**
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NJ Date: 11-2-10

Operator Name: Layne Energy Operating, LLC Lease Name: Lawrence Well #: 7G-5
 Sec. 5 Twp. 31 S. R. 14 East West County: Montgomery

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Compensated Density Neutron Dual Induction	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Driller's Log <div style="text-align: center; font-weight: bold; font-size: 1.2em;"> KCC NOV 02 2010 CONFIDENTIAL </div>
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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	42'	Class A	16	Type 1 Cement
Producton	6.75"	4.5"	10.5	939'	Thick Set	135	

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 <i>(Amount and Kind of Material Used)</i>	Depth
	See Attached Page		

TUBING RECORD:	Size: <u>2-3/8"</u>	Set At: <u>858'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	RECEIVED NOV 03 2010
Date of First, Resumed Production, SWD or ENHR. <u>8/21/2010</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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		<u>5</u>			

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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Weiser Sand 800'-808'</u>
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Layne Energy Operating, LLC #33365



LAWRENCE 7G-5

NW NE SW NE 5 - 31S - 14E MONTGOMERY COUNTY, KANSAS

15-125-32004-00-00

<i>Stage #</i>	<i>Perforation Record</i>	<i>Acid, Fracture, Shot, Cement Squeeze Record</i>
Stage 1 8/20/2010	Weiser Sand 800' - 808'	273 KCl (1%) + Biocide (bbls) 300 HCl (15%) (gal) 3000 Sand (20/40) (lbs) 5000 Sand (12/20) Brown

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Daily Well Work Report

LAWRENCE 7G-5
7/30/2010

Well Location:
MONTGOMERY KS
31S-14E-5 NW NE SW NE
1510FNL / 1918FEL
1262 / TD

Cost Center G01060800300
Lease Number G010608
Property Code KSSY31S14E0507G
API Number 15-125-32004

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
7/29/2010	7/30/2010	8/21/2010	8/21/2010	8/24/2010	LAWRENCE_7G_5

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1262	939	42	939	0	0

Reported By krd **Rig Number** **Date** 7/29/2010
Taken By krd **Down Time**
Present Operation set surface **Contractor** Thornton

Narrative

MIRU THORNTON DRILLED 11" HOLE 42' DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 16 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN

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Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	7/29/2010
Date Completed	7/30/2010

Well No.	Operator	Lease	A.P.I #	County	State
76-5	Layne Energy Operating	Lawrence	15-125-32004-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			5	31	14E

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Sean	Oil GAS	8	39' 2 5/8	1262	6 3/4

Formation Record

0-2	DIRT	697-702	BLACK SHALE	1095-1096	COAL (CROWBERG)
2-20	CLAY	702-710	SHALE	1096-1134	SHALE
20-111	SHALE	710-713	LIME	1134-1135	COAL
111-126	LIME	713-741	SHALE	1135-1152	SHALE
126-157	LMY SHALE	741-755	LIME	1152-1159	SAND (LITE ODOR)
157-166	SHALE	755-766	SAND	1159-1175	SHALE
166-171	BLACK SHALE	766-781	SHALE	1175-1177	SAND
171-175	LIME	781-798	LIME	1177-1179	SANDY SHALE
175-182	SAND	798-827	SAND/ 803-LITE ODOR	1179-1183	SAND
182-247	SHALE	827-840	SANDY SHALE	1183-1206	SHALE
247-276	LIME	840-865	SAND	1206-1213	SAND
276-321	LMY SHALE	865-870	SANDY SHALE	1213-1231	SHALE
321-360	SHALE	870-904	SHALE	1231-1232	COAL
360-371	SAND	904-906	LIME	1232-1262	SHALE
371-389	SHALE	906-907	COAL (MULBERRY)	1262	TD
389-405	SAND	907-941	LIME (PAWNEE)		
405-444	SHALE	941-946	BLACK SHALE		
444-447	LIME	946-987	SHALE		
447-452	SHALE	987-1011	LIME (OSWEGO)		
452-474	LIME	1011-1014	SHALE		
474-480	LMY SHALE	1014-1020	BLK SHALE (SUMMIT)		
480-574	LIME	1020-1026	LIME		
536	WENT TO WATER	1026-1030	BLK SHALE (EXCELLO)		
536	GAS TEST-20#, 1 1/2", MCF-1.949 MIL	1030-1035	LIME		
574-596	SAND	1035-1040	SAND		
596-618	SANDY SHALE	1040-1077	SHALE		
618-625	SAND	1077-1078	COAL (BEVEIR)		
625-630	SHALE	1078-1091	SHALE		
630-678	LIME	1091-1093	LIME (VERDIGRIS)		
678-697	SHALE	1093-1095	SHALE		

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CONSOLIDATED
Oil Well Services, LLC

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



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TICKET NUMBER 29011

LOCATION EUREKA

FOREMAN KEVIN McCoy

**FIELD TICKET & TREATMENT REPORT
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-30-10	4758	LAWRENCE 76-5				MG
CUSTOMER <u>LAYNE Energy</u>			Thornton DR19.			
MAILING ADDRESS <u>P.O. Box 160</u>						
CITY <u>SYCAMORE</u>	STATE <u>Ks</u>	ZIP CODE	Gus Jones			
			TRUCK #	DRIVER	TRUCK #	DRIVER
			445	John S.		
			515	CHRIS		
			452 T63	Jim		
			127	John G.		

JOB TYPE Longstring B HOLE SIZE 6 3/4 HOLE DEPTH 1262' CASING SIZE & WEIGHT 4 1/2 10.5# New
 CASING DEPTH 939' DRILL PIPE 4" TUBING _____ OTHER _____
 SLURRY WEIGHT 13.2# SLURRY VOL 33 BBL WATER gal/sk 9.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 14.8 BBL DISPLACEMENT PSI 450 MAX PSI 1000 Bump Plug RATE _____

REMARKS: Safety Meeting: Rig up to Drill pipe. Pump 50 BBL fresh water, Mix & Pump 76 BBL weight to kill well. well under control. wait for Rig to Trip out of hole. Loggers to Log well. Ran 939' 4 1/2 casing. Break Circulation w/ 5 BBL water. Pump 10 BBL caustic Soda Pre Flush, 6 BBL Dye water. Mixed 105 sks Thick Set Cement w/ 8# Kol-Seal/sk, 1/8# PhenoSeal/sk, 1/2% CFL-110, 1/4% CAF-38 @ 13.2# /gal, yield 1.75. wash out Pump & Lines. Shut down. Release Plug. Displace w/ 14.8 BBL fresh water. Final Pumping Pressur 450 psi. Bump Plug to 1000 psi. wait 2 minutes. Release Pressur. Float Held. Shut in @ 0 psi. Good Cement Returns to SURFACE = 8 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	925.00	925.00
5406	40	MILEAGE	3.65	146.00
1126 A	105 sks	THICK Set Cement	17.00	1785.00
1110 A	840 #	Kol-Seal 8#/sk	.42	352.80
1107 A	13 #	Pheno Seal 1/8#/sk	1.15	14.95
1135	50 #	CFL-110 1/2%	7.50	375.00
1146	25 #	CAF-38 1/4%	7.70	192.50
1118 B	1500 #	Gel TO KILL WELL	.20	300.00
1100	5000 #	Barite	.30	1500.00
1103	100 #	CAUSTIC SODA (PRE FLUSH)	1.45	145.00
5407	5.77 TONS	TON Mileage Bulk Delv.	M/c	315.00
5508	7 Hrs	WATER TRANSPORT	112.00	784.00
1123	6000 gals	City water	14.90/1000	89.40
4404	1	4 1/2 Top Rubber Plug	45.00	45.00
4161	1	4 1/2 AFU Float Shoe	273.00	273.00
5504 B	4 Hrs	Flatbed Delivery	100.00	400.00
			Sub Total	7642.65
THANK YOU			SALES TAX 6.3%	319.60
			ESTIMATED TOTAL	7962.25

Ravin 3737

AUTHORIZATION Witnessed By Jacob

TITLE Layne Co. Rep.

DATE 7-30-10

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.