

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

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

11/15/10

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 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 #: _____
8/17/2010 8/18/2010 9/9/2010
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 205-27860-00-00
Spot Description: _____
NE NE SW SE Sec. 34 Twp. 30 S. R. 14 East West
1,288 Feet from North / South Line of Section
1,541 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Wilson
Lease Name: Metzger Well #: 15A-34
Field Name: Cherokee Basin Coal Area
Producing Formation: Cattleman Sands
Elevation: Ground: 913' Kelly Bushing: N/A
Total Depth: 1262' Plug Back Total Depth: 1251'
Amount of Surface Pipe Set and Cemented at: 46 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: N/A Feet
If Alternate II completion, cement circulated from: 1251
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: 11/15/2010

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 11/15/10 - 11/15/10 RECEIVED
 Confidential Release Date: _____
 Wireline Log Received NOV 16 2010
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: KCC WICHITA Date: _____

Operator Name: Layne Energy Operating, LLC Lease Name: Metzger Well #: 15A-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 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
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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	46'	Class A	8	Type 1 Cement
Production	6.75"	4.5"	10.5	1251'	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		

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TUBING RECORD:	Size: <u> 2-3/8" </u>	Set At: <u> 1218' </u>	Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	KCC WICHITA
Date of First, Resumed Production, SWD or ENHR. <u> 9/9/2010 </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. <u> 7 </u>	Gas Mcf <u> 5 </u>	Water Bbls. <u> 1 </u>	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> Cattleman Sands 1165'-1179' </u>
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Layne Energy Operating, LLC #33365



METZGER 15A-34

NE NE SW SE 34 - 30S - 14E WILSON COUNTY, KANSAS

15-205-27860-00-00

<i>Stage #</i>	<i>Perforation Record</i>	<i>Acid, Fracture, Shot, Cement Squeeze Record</i>
Stage 1 9/8/2010	Cattleman Sand 1165' - 1179'	390 Water (bbls) 400 HCl (15%) (gal) 7000 Sand (12/20) Brown 7000 Sand (20/40) (lbs)

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Daily Well Work Report

METZGER 15A-34
8/18/2010

Well Location:
WILSON KS
30S-14E-34 NE NE SW SE
1288FSL / 1541FEL

Cost Center G01027400900
Lease Number G010274
Property Code KSSY30S14E3415A
API Number 15-205-27860

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnetiD
8/17/2010	8/18/2010	9/9/2010	9/9/2010		

TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1262	1251	42	1251	0	0

Reported By KRD **Rig Number**
Taken By KRD **Date** 8/17/2010
Present Operation DRILL OUT SURFACE **Down Time**
Contractor THORNTON

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Narrative

MIRU THORNTON DRILLED 11" HOLE 46" DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 8 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	8/17/2010
Date Completed	8/18/2010

Well No.	Operator	Lease	A.P.I.#	County	State
15A-34	Layne Energy Operating	Metzger	15-205-27860-00-00	Wilson	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Sean	Oil	8	46' 8 5/8	1262	6 3/4

Formation Record

0-2	DIRT	909-958	SHALE		
2-10	CLAY	937	GAS TEST -SAME		
10-76	LIME	958-981	LIME (OSWEGO)		
76-156	SHALE	981-983	SHALE		
156-190	LMY SHALE	983-992	BLK SHALE (SUMMIT)		
190-287	SHALE	987	GAS TEST - SAME		
287-290	LIME	992-1000	LIME		
290-306	SANDY SHALE	1000-1004	BLK SHALE (EXCELLO)		
306-397	SAND	1004-1005	COAL (MULKEY)		
361	WENT TO WATER	1005-1009	LIME		
397-420	SANDY SHALE	1009-1053	SHALE		
420-433	SAND	1053-1054	COAL (BEVEIR)		
433-438	SHALE	1054-1069	SHALE		
438-536	LIME	1069-1071	LIME (VERDIGRIS)		
536-555	LMY SHALE	1071-1074	SHALE		
555-576	SAND	1074-1075	COAL (CROWBERG)		
576-602	LIME	1075-1079	SHALE		
602-609	SHALE	1079-1088	SAND		
609-639	LIME	1088-1118	SHALE		
639-700	SHALE	1118-1119	COAL		
700-716	LIME	1119-1147	SHALE		
716-721	LMY SHALE	1147-1160	SANDY SHALE		
721-743	SHALE	1160-1179	SAND (ODOR)		RECEIVED
743-759	LIME	1162	GAS TEST - SAME		
759-773	SAND	1179-1181	SHALE		NOV 16 2010
773-868	SHALE	1181-1182	COAL		
811	GAS TEST-2#,1/4",MCF-12.7	1182-1262	SHALE		KCC WICHITA
868-869	COAL	1187	GAS TEST-5#,1/4",MCF-20.7		
869-903	LIME (PAWNEE)	1262	TD		
903-909	BLK SHALE (LEXINGTON)				



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 29039

LOCATION Eureka

FOREMAN Troy Stricker

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-19-10	4758	Metger ISA-34				Wilson
CUSTOMER <u>Layne Energy</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 160</u>			520	Cliff	KCC	
CITY <u>Sycamore</u>			479	John	NOV 15 2010	
STATE <u>Ks</u>	ZIP CODE		436	Alond.	CONFIDENTIAL	

JOB TYPE L/S '0' HOLE SIZE 6 3/4 HOLE DEPTH 1262' CASING SIZE & WEIGHT 4 1/2" 10.5"
 CASING DEPTH 1251' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.4" SLURRY VOL 428bl WATER gal/sk 8" CEMENT LEFT in CASING 0'
 DISPLACEMENT 19.8 Bbl DISPLACEMENT PSI 500 MIX PSI 1000 Bump Ply RATE _____

REMARKS: Safety Meeting: Rig upto 4 1/2" casing. Break Circulation w/ 258bl water.
Pump 10sk Gel-Flush w/ Hulls. 58bl water spacer, 108bl Caustic Soda Pre-Flush, 108bl
Dye water. Mixed 135sk Thick Set Cement w/ 8" Kol-Seal Pwfx, 1/8" Phenoseal Pwfx
1/2% CFL-110, + 1/2 CAF-38, @ 13.4#/gal. Washout Pump + lincs. Release Plug.
Displace w/ 19.8 Bbl water. Final Pumping Pressure 500 PSI. Bump Plug to 1000 PSI.
Wait 2mg. Release Pressure. Float Hold. Good Cement to surface = 8 Bbl
Slurry to pit.

Job Complete

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
1126A	135.8sk	Thick Set Cement	17.00	2298.00
1110A	1080 #	8" Kol-Seal Pwfx	.42 #	453.60
1107A	17 #	1/8" Phenoseal Pwfx	1.15 #	19.55
1135	68 #	1/2 CFL-110	7.50 #	510.00
1146	34 #	1/2 CAF-38	7.70 #	261.80
1118A	500 #	Gel-Flush	.20 #	100.00
1105	50 #	Hulls	.39 #	19.50
1103	100 #	Caustic Soda	1.45 #	145.00
4404	1	4 1/2" Top Rubber Ply RECEIVED	45.00	45.00
5407A	7.43	Ton-mileage NOV 16 2010	1.20	356.64
5502C	4hrs	808bl Vac Truck	85.00	340.00
1123	300gals	City water KCC WICHITA	14.90/w	44.70
			Sub Total	5661.19
			SALES TAX	245.35
			ESTIMATED TOTAL	5906.54

Revin 3737

236055

AUTHORIZATION [Signature]

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.