



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1056124

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
_____ 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 <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
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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)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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	1/27/2011
Date Completed	1/31/2011

Well No.	Operator	Lease	A.P.I #	County	State
16P-34	Layne Energy Operating	Metzger	15-205-27911-00-00	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	42.7 8 5/8	1287	6 3/4

Formation Record

0-3	DIRT	1061-1062	COAL		
3-80	LIME	1062-1077	SHALE		
80-291	LMY SHALE	1077-1079	LIME		
291-297	SANDY SHALE	1079-1081	SHALE		
297-405	SAND (DAMP)	1081-1082	COAL (CROWBERG)		
361	WENT TO WATER	1082-1095	SANDY SHALE		
405-430	SANDY SHALE	1095-1105	SAND		
430-466	LIME	1105-1123	SHALE		
466-484	LMY SHALE	1123-1125	COAL (MINERAL)		
484-540	LIME	1125-1174	SHALE		
540-548	SHALE	1137	GAS TEST-5#, 1/4", MCF-20.7		
548-655	LIME	1174-1179	SAND/LITE OIL ODOR		
655-686	SHALE	1179-1198	BROWN SAND/OIL ODOR		
686-766	LMY SHALE	1198-1200	COAL (WEIR)		
766-788	SAND /780-LITE OIL ODOR	1200-1230	SANDY SHALE		
788-877	SANDY SHALE	1230-1287	SHALE		
877-878	COAL (MULBERRY)	1287	TD		
878-882	SHALE				
882-909	LIME (PAWNEE)				
909-915	BLK SHALE (LEXINGTON)				
915-940	SHALE				
940-966	SANDY SHALE				
966-990	LIME (OSWEGO)				
990-1000	BLK SHALE (SUMMIT)				
1000-1010	LIME				
1010-1013	BLACK SHALE				
1013-1014	COAL (MULKEY)				
1014-1016	LIME				
1016-1034	SANDY SHALE				
1034-1061	SHALE				

Well Report

METZGER 16P-34

API Number:

Project Area:

SYCAMORE
KS Wilson
30S - 14E - 34
170FSL - 876FEL

AFE Number: G01027401800

AFE Amount: \$0.00

Activity Date	Activity Description
1/28/2011	MIRU THORNTON DRILLED 11' HOLE 44.' DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN
1/31/2011	<p>TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1287' TD, CATCHING SAMPLES AT ZONES OF INTEREST. RD DRILL RIG, RU OSAGE WIRELINE PULL LOGS FROM LOGGER DEPTH TO SURFACE.</p> <p>MI PU, RIH w/ 33 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 25 BBLs FRESH WTR PUMP 10 SKS GEL FLUSH W/HULLS, 10 BBLs WATER SPACER, 20 BBLs CAUSTIC PRE-FLUSH, 10 BBLs DYE WTR. MIXED 135 SKS THKSET CMT W/8#KOL-SEAL,1/8# PHENOSEAL PER SK.,1/4% CFL-115, 1/4% @ 13.4#/GAL YIELD 1.75. WASHED OUT PUMP AND LINES SHUTDOWN, RELEASE PLUG, DISPLACE W/20 BBLs FRESH WTR. FINAL PUMPING PRESSURE 700 PSI, BUMP PLUG TO 1200 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD GOOD CEMENT RETURNS TO SURFACE, 42 BBLs SLURRY, 8 BBLs TO PIT. RD MOL.</p> <p>CSG STRING:17.71' SUB, 9.04' SUB 33 JOINTS 4-1/2" FROM WESTERN DRILL LANDED CSG @ 1277' PBTd - 1277' TD 1287'</p>
2/14/2011	<p>MIRU Osage Wireline & Consolidated Oil Well Services. Osage RIH and ran CBL-CCL/VDL from 1264' to 0'. Bond looks good all depths. Osage RIH and perforated Cattleman from 1174' to 1194' with 2 spf, 180 degree, 25 gm. TOTAL 41 holes Consolidated spotted 100 gallons 15% HCL across Cattleman perfs. Spearheaded 350 gals additional (450 total) and dropped 60 ball sealers and balled off perfs. Flowed back to clear perfs. Osage RIH with junkbasket/gauge ring and knocked off ball sealers. Consolidated fracked the Cattleman with 100 bbls PAD of 25 ppt gelled water with 2% KCL and boicide followed with 6,700 lbs 16/30 and 17,300 lbs 12/20 sand @ 0.25 to 3.0 ppg concentrations. Dropped 15 balls during frac. Flushed sand with 19 bbls gelled water. Breakdown 1,525 psig, ISIP 620 psig, 5 min 561 psig, 10 min 540 psig, 15 min 525 psig. ATP 835 psig, MTP 896 psig, ATR 28 BPM, MTR 28.3 BPM.</p> <p>TOTALS 450 gallons 15% HCL, 24,000 lbs 16/30 & 12/20 sand, 420 bbls gelled water.</p> <p>Shut well in overnight to allow gel to break. Rig down Osage and Consolidated.</p>

2/15/2011

MI RU RAN IN HOLE WITH 2-3/8 TUBING WITH 37JTS SET SN 1207' MA 1222'. RAN 1-1/2X6' PUMP WITH 47 RODS HUNG OFF ON WELL HEAD WELL READY FOR PRODUCTION.

TUBING STRING

37 JTS 2-3/8

SN @ 1207

15' OEMA 1222

ROD STRING

47 - 3/4 RODS

1-8',1-6',1-4' ROD SUBS

1-1/2 X 6' CUP PUMP WITH 4' GTA



TICKET NUMBER 30206
 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												
1-31-11	4758	Metzger 14P-34				Wilson												
CUSTOMER			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>445</td> <td>John S</td> <td></td> <td></td> </tr> <tr> <td>543</td> <td>Dave G</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	445	John S			543	Dave G		
TRUCK #	DRIVER	TRUCK #					DRIVER											
445	John S																	
543	Dave G																	
CUSTOMER <u>Layne Energy</u>																		
MAILING ADDRESS																		
<u>P.O. Box 160</u>																		
CITY	STATE	ZIP CODE																
<u>Sycamore</u>	<u>Ks</u>																	

JOB TYPE 4 1/2" HOLE SIZE 6 3/4" HOLE DEPTH 1287' CASING SIZE & WEIGHT 4 1/2"
 CASING DEPTH 1276' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.4# SLURRY VOL 42 Bbl WATER gal/sk 80 CEMENT LEFT IN CASING 0'
 DISPLACEMENT 20.2 Bbl DISPLACEMENT PSI 700 MIX PSI 1200 BupR RATE _____

REMARKS: Safety Meeting. Rig up to 4 1/2" casing. Break circulation w/ 25 Bbl Fresh Water. Pump 10sk Gel-Flush w/ HULL. 10Bbl Nye Water. Mixed 135sk Thickset Cement w/ 8" Kol-Seal, 1/2" Phenoseal, + 1/4% CFL-115 @ 13.4#/gal. Washout Pump & lines. Release Plug. Displace w/ 20.2 Bbl Fresh Water. Final Pumping Pressure 700 PSI. Pump Plug to 1200 PSI. Wait 2mins. Release Pressure. Float Held. Good Cement to surface = 8 Bbl Slurry to Pt.

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	135skt	Thickset Cement	17.00	2295.00
1110A	1080"	8" Kol-Seal 1/2	.42	453.60
1107A	17"	1/2" Phenoseal 1sk	1.15	19.55
1135A	32"	1/4% CFL-115	9.95	318.40
1118A	500"	Get-Flush	.20	100.00
1105	50"	Hulls	.37	19.50
1103	100"	Caustic Soda	1.45	145.00
5407	7.43	Ton-mileage	1.20	356.64
4404	1	4 1/2" Tap Rubber Plug	45.00	45.00
				4823.69
		Thank You!	10.3%	SALES TAX
				ESTIMATED
				TOTAL
				5037.64

Revin 8787

AUTHORIZATION [Signature] TITLE Oil Field 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

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/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 18, 2011

Victor H. Dyal
Layne Energy Operating, LLC
1900 SHAWNEE MISSION PKWY
MISSION WOODS, KS 66205-2001

Re: ACO1
API 15-205-27911-00-00
Metzger 16P-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