



**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: \_\_\_\_\_



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> <input type="checkbox"/> Other <i>(Specify)</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	<b>3/7/2011</b>
Date Completed	<b>3/10/2011</b>

Well No.	Operator	Lease	A.P.I #	County	State
<b>6Q-35</b>	<b>Layne Energy Operating</b>	<b>Metzger</b>	<b>15-205-27921-00-00</b>	<b>Wilson</b>	<b>Kansas</b>

1/4	1/4	1/4	Sec.	Twp.	Rge.
			<b>35</b>	<b>30</b>	<b>14</b>

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
<b>Billy</b>	<b>Oil</b>	<b>8</b>	<b>42.7' 8 5/8</b>	<b>1287</b>	<b>6 3/4</b>

**Formation Record**

0-6	DIRT	912-917	LIME		
6-90	LIME	917-921	BLK SHALE (LEXINGTON)		
90-290	SHALE	921-965	SHALE		
290-295	LIME	965-987	LIME (OSWEGO)		
295-296	COAL	987-997	BLK SHALE (SUMMIT)		
296-300	SANDY SHALE	997-1010	LIME		
300-360	SAND	1010-1014	BLK SHALE (EXCELLO)		
360-430	SANDY SHALE	1012	GAS TEST-SLIGHT BLOW		
430-446	SHALE	1014-1015	COAL (MULKEY)		
446-500	LIME	1015-1017	LIME		
500-536	SHALE	1017-1058	SANDY SHALE		
536-560	LIME	1058-1059	COAL		
560-578	SAND	1059-1074	SHALE		
578-600	SANDY SHALE	1074-1076	LIME (V-LIME)		
600-616	LIME	1076-1079	SHALE		
616-629	SHALE	1079-1080	COAL (CROWBERG)		
629-658	LIME	1080-1122	SHALE		
658-713	SHALE	1122-1123	COAL		
713-730	LIME	1123-1160	SHALE		
730-751	SANDY SHALE	1160-1170	BROWN SAND/OIL ODOR		
751-759	LIME	1170-1179	BLACK SAND/OIL ODOR		
759-771	SHALE	1179-1184	GRAY SAND		
771-781	SAND	1184-1200	SHALE		
781-788	SANDY SHALE	1187	GAS TEST-SLIGHT BLOW		
788-821	SHALE	1200-1207	SANDY SHALE/LITE ODOR		
821-838	SAND	1207-1287	SHALE		
838-885	SHALE	1287	TD		
885-886	COAL (MULBERRY)				
886-908	LIME (PAWNEE)				
908-912	SHALE				

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# Well Report

## METZGER 60-35

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**API Number:**

**AFE Number:** W877

**Project Area:** SYCAMORE  
KS WILSON  
30S - 14E - 35  
2375FNL - 2225FWL

**AFE Amount:** \$0.00

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Activity Date	Activity Description
3/7/2011	MIRU THORNTON DRILLED 11" HOLE 42' DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN
3/9/2011	TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 387. SDFN
3/10/2011	RESUME DRILLING FROM 387 TO TD OF 1287' TAKING SAMPLES FROM ZONES OF INTREST RD DRILL RIG RU OSAGE WIRELINE PULLED LOGGS FROM LOGGER DEPTH TO SURFACE RD.
3/11/2011	MI PU, RIH w/ 30 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 25 BBLs FRESH WTR PUMP 10 SKS GEL FLUSH W/HULLS, 5 BBLs WATER SPACER, 15 BBLs CAUSTIC PRE-FLUSH, 10 BBLs DYE WTR. MIXED 130 SKS THKSET CMT W/8# KOL-SEAL, 1/8# PHENOSEAL PER SK., 1/2% CFL-115, @ 13.4#/GAL YIELD 1.75. WASHED OUT PUMP AND LINES SHUTDOWN, RELEASE PLUG, DISPLACE W/20.3 BBLs FRESH WTR. FINAL PUMPING PRESSURE 600 PSI, BUMP PLUG TO 1100 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD GOOD CEMENT RETURNS TO SURFACE, 40.5 BBLs SLURRY, 7 BBLs TO PIT. RD MOL.  CSG STRING: 30 JOINTS 4-1/2" FROM WESTERN LANDED CSG @ 1258' PBSD - 1258' TD 1287'
3/18/2011	MOL & RU Osage Wireline. Run GR-Ccl-Vcl Cement Bond log from 1256' to Surface. Bond looks good all depths. RDMOL Osage Wireline.  Well SI waiting for completion.

**4/5/2011**

MIRU Osage Wireline & Consolidated Oil Well Services. Osage RIH and perforated Cattleman from 1161' to 1177' with 2 spf, 180 degree, 25 gm. TOTAL 35 holes Consolidated spotted 100 gallons 15% HCL across Cattleman perfs. Spearheaded 300 gals additional (400 total) and dropped 47 ball sealers. Good ball action but did not ball off. Ball dropper broke and left 3 balls in dropper. Flowed back to clear perfs. Osage RIH with junkbasket/gauge ring and knocked off ball sealers.

Consolidated fracked the Cattleman with 57 bbls PAD of 25 ppt gelled water with 2% KCL and boicide followed with 7,000 lbs 16/30 and 13,500 lbs 12/20 sand @ 0.25 to 3.0 ppg concentrations. Dropped 15 balls during frac. Flushed sand with 19 bbls gelled water. Breakdown 1,404 psig, ISIP 525 psig, 5 min 480 psig, 10 min 465 psig, 15 min 452 psig. ATP 655 psig, MTP 832 psig, ATR 24 BPM, MTR 24 BPM.

TOTALS 400 gallons 15% HCL, 20,500 lbs 16/30 & 12/20 sand, 425 bbls gelled water.

Shut well in overnight to allow gel to break. Rig down Osage and Consolidated.

**4/6/2011**

MI RU RAN IN HOLE WITH 2-3/8 TUBING WITH 36JTS SET SN 1195' MA 1210'. RAN 1-1/2X6' PUMP WITH 47 RODS HUNG OFF ON WELL HEAD WELL READY FOR PRODUCTION.

**TUBING STRING**

36 JTS 2-3/8

SN @ 1195

15' OEMA 1210

**ROD STRING**

47 - 3/4 RODS

1-8',1-6' ROD SUBS

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



**CONSOLIDATED**  
Oil Well Services, LLC

*ENTERED*

TICKET NUMBER 30270

LOCATION Eureka

FOREMAN Troy Stockler

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

**FIELD TICKET & TREATMENT REPORT**

**CEMENT API - 15 - 205 - 27921 - 00 - 00**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-11-11	4758	Metzger 6Q-35	35	305	14E	WOL
CUSTOMER			SAFETY MARKS			
Layne Energy			AM			
MAILING ADDRESS			OK			
P.O. Box 160			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			485	Alan M		
STATE			479	Calin		
ZIP CODE						
Sycamore						
KI						

JOB TYPE 4/0 HOLE SIZE 6 3/4" HOLE DEPTH 1287' CASING SIZE & WEIGHT 4 1/2'  
 CASING DEPTH 1258' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.4" SLURRY VOL 40.564 WATER gal/sk 8" CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 20.3661 DISPLACEMENT PSI 600 MIX PSI 1100 BY PL \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break Circulation w/ 250bbl Fresh water. Pump 100 gal Gel-Flush w/ Hulls, 500bbl water spacer, 150bbl Carbitic Soda Pre-Flush, 100bbl Dye water. Mixed 130sk Thick Set Cement w/ 8" Kol-Seal Pipe, 1/2" Phenoseal Pipe + 1/2" CFL-115 @ 13.4"/gal. Washout Pump + line. Release Latch down Plug. Displace w/ 20.3661 Fresh Water. Final Pumping Pressure 600 PSI. Bump Plug to 100 PSI. Release Pressure. Float + Plug held. Good Cement to surface = 7 bbl Slurry to Pit.

*Job Complete*

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	130sk	Thick Set Cement	18.30	2379.00
1110A	1040'	8" Kol-Seal Pipe	.44"	457.60
1107A	16'	1/2" Phenoseal Pipe	1.22"	19.52
1135A	30'	1/2" CFL-115	9.95"	298.50
1118B	500'	Gel-Flush	.20"	100.00
1105	50'	Hulls	.42"	21.00
1103	100'	Carbitic Soda	1.52"	152.00
5407A	7.15	Ten Mileage Bulk Tank	1.26	360.36
4156	1	4 1/2" Flapper Type Float shoe	175.00	175.00
4453	1	4 1/2" Latch down Plug	155.00	155.00
			Sub Total	5252.98
			SALES TAX 6.5%	236.75
			ESTIMATED TOTAL	5489.73

Ravin 3737

AUTHORIZATION [Signature] TITLE [Signature] 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/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 01, 2011

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

Re: ACO1  
API 15-205-27921-00-00  
Metzger 6Q-35  
NW/4 Sec.35-30S-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