



**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

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: \_\_\_\_\_



1054539

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 Bbbs.	Gas Mcf	Water Bbbs.	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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# Well Report

## FITZPATRICK 15-35

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**API Number:**

**AFE Number:** G01071400100

**Project Area:**

SYCAMORE  
KS Montgomery  
31S - 14E - 35  
330FSL - 2300FEL

**AFE Amount:** \$0.00

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Activity Date	Activity Description
12/10/2010	MIRU THORNTON DRILLING, DRILLED 11" HOLE, 20' DEEP, RIH W/1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
12/13/2010	TIH W/6-3/4" HAMMER BIT AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1211', PULLED BACK TO 900' SHUT DOWN FOR NIGHT.
12/14/2010	RESUME DRILLING FROM 1212 TO 1488 TD TESTING ZONES OF INTREST RD DRILL RIG MI OSAGE WIRE LINE PULL LOGS FROM LOGGER DEPTH TO SURFACE RD MOL.
12/15/2010	MI PU, RIH w/ 38 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 35 BBLs FRESH WTR PUMP 10 SKS GEL FLUSH W/HULLS, 5 BBLs WATER SPACER, 20 BBLs CAUSTIC PRE-FLUSH, 14 BBLs DYE WTR. MIXED 155 SKS THKSET CMT W/8#KOL-SEAL,1/8# PHENOSEAL PER SK.,1/2% CFL-110, 1/4% CAF-38 @ 13.4#/GAL YIELD 1.75. WASHED OUT PUMP AND LINES SHUTDOWN, RELEASE PLUG, DISPLACE W/23.5 BBLs FRESH WTR. FINAL PUMPING PRESSURE 700 PSI, BUMP PLUG TO 1100 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD GOOD CEMENT RETURNS TO SURFACE, 48 BBLs SLURRY, 8 BBLs TO PIT. RD MOL.  38 JTS 4-1/2 PBSD 1479.9 TD1488
3/18/2011	MOL & RU Osage Wireline. Run GR-Ccl-Vcl Cement Bond log from 1468' to Surface. Bond looks good all depths. RDMOL Osage Wireline.  Well SI waiting for completion.

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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	12/10/2010
Date Completed	12/14/2010

Well No.	Operator	Lease	A.P.I.#	County	State
15-35	Layne Energy Operating	Fitzpatrick	125-32019-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			35	31	14

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Billy	Gas	4	20' 8 5/8	1488	6 3/4

### Formation Record

0-2	DIRT	962	GAS TEST - NO GAS	1285-1286	COAL
2-58	LIME	1006-1031	LIME (OSWEGO)	1286-1335	SANDY SHALE
58-62	SHALE	1031-1039	BLK SHALE (SUMMIT)	1335-1336	BLK SHALE / COAL
62-140	LIME (DAMP)	1037	GAS TEST - NO GAS	1336-1369	SHALE
140-351	SHALE	1039-1058	LIME	1338	GAS TEST - SAME
351-373	SAND	1058-1064	BLACK SHALE	1369-1370	COAL
373-374	COAL	1062	GAS TEST - NO GAS	1370-1420	SHALE
374-418	SANDY SHALE	1064-1065	COAL (MULKEY)	1388	GAS TEST - SAME
418-423	LIME (WET)	1065-1075	LIME	1420-1421	COAL
423-426	SHALE	1075-1091	SHALE	1421-1425	SHALE
426-446	LIME	1091-1092	COAL	1425-1429	MISS. CHATT (MISS.)
446-472	SHALE	1092-1107	SHALE	1429-1436	GRAY SHALE
472-526	LIME	1107-1108	LIME	1436-1458	MISS. CHATT
526-617	SANDY SHALE	1108-1109	COAL (CROWBERG)	1438	GAS TEST - SAME
617-630	LIME	1109-1158	SHALE	1458-1488	GRAY LIME
630-671	SANDY SHALE	1112	GAS TEST - NO GAS	1463	GAS TEST - SAME
671-676	LIME	1158-1159	COAL (MINERAL)	1488	TD
676-724	SHALE	1159-1177	SHALE		
724-746	LIME	1177-1178	COAL		
746-771	SHALE	1178-1181	SHALE		
771-783	LIME	1181-1188	SAND / OIL ODOR		
783-795	SHALE	1188-1204	SANDY SHALE		
795-799	LIME	1204-1210	WHITE SAND		
799-860	SHALE	1210-1228	SANDY SHALE		
837	WENT TO WATER	1228-1229	COAL		
860-906	SANDY SHALE	1229-1234	SANDY SHALE		
906-907	COAL (MULBERRY)	1234-1255	SHALE		
907-932	LIME (PAWNEE)	1255-1256	COAL		
932-937	BLK SHALE (LEXINGTON)	1256-1285	SHALE		
937-1006	SANDY SHALE	1263	GAS TEST-10#, 1/4", MCF-30.8		



**CONSOLIDATED**  
Oil Well Services, LLC

**ENTERED**

TICKET NUMBER 30046

LOCATION Evera KS

FOREMAN Rick Ledford

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8876

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-15-10	4758	Fitzpatrick 15-35	35	31	11E	MG
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Layne Energy			520	Cliff		
MAILING ADDRESS			515	Allen G.		
P.O. Box 160						
CITY	STATE	ZIP CODE				
Sycamore	KS					

Safety meeting  
cd ap

JOB TYPE longstring OG HOLE SIZE 6 3/4" HOLE DEPTH 1489' CASING SIZE & WEIGHT 4 1/2"  
 CASING DEPTH 1490' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.4" SLURRY VOL. 48 bbl WATER gal/sk 8.0 CEMENT LEFT IN CASING 0'  
 DISPLACEMENT 23.5 bbl DISPLACEMENT PSI 700 PSI 1100 RATE \_\_\_\_\_

REMARKS: Safety meeting - Rig up to 4 1/2" casing. Break circulation w/ 35 bbl fresh water. Pump 10 sks gel-flush w/ bulls, 20 bbl caustic soda pre-flush. 14 bbl dye water. Mixed 155 sks thickset cement w/ 8" Kolson/sk, 1/2" phenox/sk 1/2% FX-110 + 1/4% CAF-38 @ 13.1"/gal. Washout pump + lines, shut down, release plug. Displace w/ 23.5 bbl fresh water. Final pump pressure 700 PSI. Pump plug to 1100 PSI, wait 2 mins, release pressure, float held. Good cement returns to surface = 8 bbl slurry to pit. Job complete. Rig down.

" Thank You "

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	155 sks	thickset cement	17.00	2635.00
1110A	1240 "	8" Kolson/sk	.42	520.80
1107A	20 "	1/2" phenoxen/sk	1.15	23.00
1135	78 "	1/2% CFL-110	7.50	585.00
1146	39 "	1/4% CAF-38	7.70	300.30
1118B	500 "	gel-flush	.20	100.00
1105	50 "	bulls	.39	19.50
1103	100 "	caustic soda	1.45	145.00
5407A	8.53	ton mileage bull truck	1.20	409.44
4404	1	4 1/2" top rubber plug	45.00	45.00
			Subtotal	5854.04
			SALES TAX 6.3%	275.56
			ESTIMATED TOTAL	6129.60

Flavin 3737

AUTHORIZATION [Signature] TITLE Perm Foreman 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.