



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 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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Well Report

METZGER 16F-34

API Number:

AFE Number: W882

Project Area:

SYCAMORE
KS WILSON
30S - 14E - 34
831FSL - 819FEL

AFE Amount: \$0.00

Activity Date	Activity Description
4/8/2011	MIRU THORNTON DRILLED 11" HOLE 43 DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN
4/11/2011	MI RU DRILL RIG TRIPPED IN HOLE WITH 6-3/4 HAMMER TAKING SAMPLES FROM ZONES OF INTREST TO TD OF 1262' RD DRILL RIG AWAITING OSAGE WIRE LINE.
4/12/2011	MI RU OSAGE WIRELINE PULL LOGS FROM LOGGER DEPTH TO SURFACE. JOB COMPLETE RD.
5/5/2011	<p>MI PU, RIH w/ 32 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 40 BBLs FRESH WTR WASHED 17' PUMP 10 SKS GEL FLUSH W/HULLS, 20 BBLs WATER SPACER, 15 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/20.2 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, 45 BBLs SLURRY, 9 BBLs TO PIT. RD MOL.</p> <p>CSG STRING: 10.37' SUB 3.0' SUB 30 JOINTS 4-1/2" FROM SUNRISE 7 JOINTS ON TOP MAY BE 9.5 LB PIPE LANDED CSG @ 1257.23' PBTd - 1257.23' TD 1262'</p>
5/23/2011	<p>MIRU Osage Wireline & Consolidated Oil Well Services. Osage RIH and ran CBL-CCL/VDL from 1251' to 0'. Bond looks good all depths. Osage RIH and perforated Cattleman from 1186' to 1197' with 2 spf, 180 degree, 25 gm. TOTAL 23 holes Consolidated spotted 100 gallons 15% HCL across Cattleman perfs. Spearheaded 200 gals additional (300 total) followed by 54 bbls PAD (25 ppt gelled city water with 2% KCL & biocide) and followed by 5,000 lbs 16/30 and 8,200 lbs 12/20 sand at 0.25 to 3 ppg concentrations. Flushed with 20 bbls water.</p> <p>Breakdown 1178 psig, ISIP 640 psig, 5 min 440 psig, 10 min 346 psig, 15 min 196 psig. ATP 900 psig, MTP 953 psig, ATR 26 BPM, MTR 26 BPM.</p> <p>TOTALS: 300 gallons 15% HCL, 13,200 lbs 16/30 & 12/20 sand, 327 bbls gelled water</p> <p>Shut well in overnight to allow gel to break. Rig down Osage and Consolidated.</p>

5/24/2011

TIH W/ TBG WASHED 30' OF SAND TO TD SET SN @ 1993' TIH W/ RODS & PMP SPACED
ROD STRING HUNG ON JACK

TBG STRING

2 3/8 TBG - 39

SUBS - 0

SN @ 1193

15' OEMA @ 1208'

ROD STRING

3/4 RODS - 47

1-4',1-2' PONY

1 1/2 X 6' BHD W/ GA

1 1/8 X 11' POLISH ROD



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 30376
LOCATION Eureka
FOREMAN Russell McCoy

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

FIELD TICKET & TREATMENT REPORT
CEMENT

APT N.A.

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-5-2011	4158	Metzger 16-F-34	34	30	11E	Wilson
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Layne Energy			445	Dave		
MAILING ADDRESS			479	Calvin		
P.O. Box 160						
CITY	STATE	ZIP CODE				
Sycamore	KS					

JOB TYPE Logging 0 HOLE SIZE 6 3/4 HOLE DEPTH 1263 CASING SIZE & WEIGHT 4 1/2 10.5 + 95
CASING DEPTH 1257 DRILL PIPE _____ TUBING _____ OTHER 7 Joints 9.5" on top
SLURRY WEIGHT 13.4 SLURRY VOL 45 Bbl WATER gal/sk 8.0 CEMENT LEFT in CASING 0
DISPLACEMENT 20.2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, Rig up to 4 1/2 casing wash down 17' 4 1/2 casing to 1258
w/40 Bbl water mix 10 SKS gal w/ Halls set 4 1/2 on casing clamp at 1257' Rig up 4 1/2
cement head mix 15 Bbl caustic soda pic flush, 10 Bbl DYE water, mix 135 SKS T.S.
cement w/ 8" Kalseal 1/8" Phenoseal 1/8" CFL-115 1/4" @ 13.4 PPG allow. wash out pump
+ Latch Release 4 1/2 Latch Down Plug Displace w/ 20.2 Bbl city water. Final pump
PSY 700" Bump Plug to 1200" check float, float held. 9 Bbl slurry to pit Annular
stayed full of cement. Job complete, Tear down.

Thanks
Russell
McCoy

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
1126 A	135 SKS	Thickset cement	18.30	2470.50
1110 A	1080 "	8" Kalseal 1/8" SIC	.44	475.20
1107 A	17 "	Phenoseal 1/8" 1/8" SIC	1.22	20.74
1135 A	34 "	CFL-115 1/4 "	9.95	338.30
1118 B	500 "	gel Flush	.20	100.00
1105	50 "	Halls	.42	21.00
1103	100 "	caustic soda	1.52	152.00
5407 A	7.43	Tow Mileage Bulk Truck	1.26	374.47
4453	1	4 1/2 Latch Down Plug	155.00	155.00
4156	1	4 1/2 Flapper Type Float shoe	175.00	175.00
				5417.21
		SALES TAX		246.20
		ESTIMATED TOTAL		5663.41

Ravin 3737

AUTHORIZATION [Signature] TITLE Drill Farmer DATE 5-5-2011

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.

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	4/8/2011
Date Completed	4/11/2011

Well No.	Operator	Lease	A.P.I.#	County	State
16F-34	Layne Energy Operating	Metzger	15-205-27925-00-00	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	42.8' 8 5/8	1262	6 3/4

Formation Record

0-8	DIRT	1014-1018	LIME		
8-90	LIME	1018-1019	COAL (MULKEY)		
90-304	LMY SHALE	1019-1027	LIME		
304-306	LIME	1027-1067	SANDY SHALE		
306-360	SAND	1067-1068	COAL (BEVIER)		
360-383	SHALE	1068-1081	SHALE		
383-415	SAND	1081-1083	LIME (V-LIME)		
415-444	SHALE	1083-1085	SHALE		
444-467	LIME	1085-1086	COAL (CROWBERG)		
467-477	SHALE	1086-1128	SHALE		
477-550	LIME	1128-1129	COAL (MINERAL)		
550-588	SANDY SHALE	1129-1172	SHALE		
588-614	LIME	1172-1173	COAL		
614-625	SHALE	1173-1184	SANDY SHALE		
625-651	LIME	1184-1192	BLK SAND/LITE OIL ODOR		
651-713	SHALE	1192-1200	SANDY SHALE		
713-729	LIME	1200-1202	COAL (WEIR)		
729-752	SHALE	1202-1227	SANDY SHALE		
752-774	LIME	1227-1262	SHALE		
774-787	SAND	1237	GAS TEST-SLIGHT BLOW		
787-877	SHALE	1262	TD		
877-879	LIME				
879-880	COAL (MULBERRY)				
880-917	LIME (PAWNEE)				
917-926	BLK SHALE (LEXINGTON)				
926-939	SHALE				
939-969	SANDY SHALE				
969-994	LIME (OSWEGO)				
994-1002	BLK SHALE (SUMMIT)				
1002-1014	LIME				

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 26, 2011

Victor H. Dyal
Layne Energy Operating, LLC
P O BOX 160
SYCAMORE, KS 67363

Re: ACO1
API 15-205-27925-00-00
Metzger 16F-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