



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: _____



1066004

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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MORNING COMPLETION REPORT

Report Called in by: JM

Report taken by: KRD

LEASE NAME & #	AFE#	DATE	DAYS	CIBP	PBTD:
WESTFALL 3Q-12	G01057300100	8/26/2011	1	DEPTH	TYPE FLUID
PRESENT OPERATION:					WT
					VIS
DEEPEST CASING OD SHOE DEPTH	LINERS OD TOP & SHOE DEPTH	REPAIR DOWN TIME HRS	CONTRACTOR		
			RIG NO		
PACKER OR ANCHOR_	FISHING TOOLS	OD	ID	TEST PERFS	
				TO	
				TO	
				TO	
HRS	BRIEF DESCRIPTION OF OPERATION				
	MIRU Thornton, drilled 11" hole 22.2' deep, RIH W/1 joint 8-5/8" surface casing with a collar on bottom. Mixed 4 sx type 1 cement, dumped down the backside. SDFN.				

DAILY COST ANALYSIS

		DETAILS OF RENTALS, SERVICES, & MISC	
RIG	<u> 900</u>	Drilling Rig	900
SUPERVISION	<u> </u>	1 jt 8-5/8	300
RENTALS	<u> </u>	8-5/8 coupling	150
SERVICES	<u> </u>	4 sks portland cement	90
MISC	<u> 540</u>		
			1440
DAILY TOTALS	<u> 1440</u>	PREVIOUS TCTD	<u> 0</u>
		TCTD	<u> 1440</u>



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 31521

LOCATION Fireka

FOREMAN Rick Ledford

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

FIELD TICKET & TREATMENT REPORT
CEMENT

API # 15-125-32106

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-31-11	4759	Westfall 30-12	12	31	13E	MC

CUSTOMER		TRUCK #		DRIVER	
Layne Energy		445		Shannon	
MAILING ADDRESS		611		Chris M	
P.O. Box 160		437		Jim	
CITY	STATE	ZIP CODE			
Sycamore	KS	67363			

JOB TYPE L/S O HOLE SIZE 6 3/4" HOLE DEPTH 1535' CASING SIZE & WEIGHT 4 1/2"
 CASING DEPTH 1500' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.4" SLURRY VOL _____ WATER gal/sk 8.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 23.8 bbl DISPLACEMENT PSI 800 ~~1200~~ PSI Buy plus RATE _____

REMARKS: Safety meeting - Rig up to 4 1/2" casing. Break circulation w/ 27 bbl fresh water. Pump 10 srs gel-flush, 15 bbl caustic soda, 14 bbl dye water. Mixed 155 srs thickset cement w/ 8" Kol-seal/sk, 1/2" phenasol/sk + 14% CFL-15 @ 13.4"/gal. Washout pump + lines, release plug. Displace w/ 23.8 bbl fresh water. Final pump pressure 800 PSI. Pump plug to 1200 PSI. release pressure, float + plug hold. Good cement returns to surface. 7 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	975.00	975.00
5406	40	MILEAGE	4.00	160.00
1126A	155 srs	thickset cement	18.36	2836.50
1110A	1240"	8" Kol-seal/sk	.44	545.60
1107A	20"	1/2" phenasol/sk	1.22	24.40
1135A	40"	14% CFL-15	9.95	398.00
1118B	500"	gel-flush	.20	100.00
1105	50"	hulls	.42	21.00
1103	100"	caustic soda	1.52	152.00
5407A	8.53	tan mileage bulk trk	1.26	429.91
5502C	2	80 bbl VAC. TRK	90.00	180.00
1123	3000 gals	city water	15.00/1000	46.80
4156	1	4 1/2" flapper valve float shoe	175.00	175.00
4453	1	4 1/2" latch down plug	155.00	155.00
5614	4 hrs	welder	80.00	320.00
4311	1	4 1/2" weld on collar	70.00	70.00
			Subtotal	6589.21
			SALES TAX	285.04
			ESTIMATED TOTAL	6874.25

Ravin 3737

243930

6.3%

AUTHORIZATION

Jacob Meador

TITLE

Drilling 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

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	8/26/2011
Date Completed	8/30/2011

Well No.	Operator	Lease	A.P.I #	County	State
3Q-12	Layne Energy Operating	West Fall	15-125-32106-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			12	31	13

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Billy	Gas	4	22.2' 8 5/8	1535	6 3/4

Formation Record

0-6	DIRT	873-880	LIME	1262-1264	SHALE
6-15	CLAY	880-910	SHALE	1264-1265	COAL (CROWBERG)
15-46	SHALE	887	GAS TEST - NO GAS	1265-1303	SHALE
46-50	LIME	912	GAS TEST - NOGAS	1303-1304	COAL (MINERAL)
50-76	SHALE	910-924	LMY SHALE	1304-1341	SHALE
76-90	SAND (DAMP)	924-929	SAND	1313	G.T.- SLIGHT BLOW
90-330	SHALE	929-934	SANDY SHALE	1341-1346	SAND (CATTLEMAN)/LT OIL ODOR
330-360	LIME	934-952	SHALE	1346-1353	SAND / OIL ODOR
360-379	SHALE	952-972	LIME	1353-1357	SANDY SHALE
379-380	COAL	972-986	SAND (WEISER)	1357-1373	SHALE
380-432	SHALE	986-1010	SHALE	1373-1374	COAL
432-545	LMY SHALE	1010-1022	SANDY SHALE	1374-1378	SHALE
545-576	SAND (DAMP)	1022-1033	SAND	1378-1381	SANDY SHALE
576-577	COAL	1033-1074	SHALE	1381-1385	SAND
577-595	SAND	1074-1075	COAL (MULBERRY)	1385-1404	SHALE
595-623	SHALE	1075-1111	LIME (PAWNEE)	1404-1405	COAL
623-628	LIME	1111-1113	SHALE	1405-1418	SHALE
628-631	SHALE	1113-1118	BLK SHALE (LEXINGTON)	1418-1426	RED SHALE
631-663	LIME	1118-1133	SHALE	1426-1436	SHALE
663-675	SHALE	1133-1158	SANDY SHALE	1436-1437	COAL
675-751	LIME	1158-1180	LIME (OSWEGO)	1437-1486	SHALE
711	GAS TEST - NO GAS	1180-1186	BLK SHALE (SUMMIT)	1486-1487	COAL (RIVERTON)
751-759	BLACK SHALE	1186-1196	LIME	1487-1508	SHALE
759-780	LIME	1196-1201	SHALE (EXCELLO)	1508-1524	MISS. CHAT (MISS.)
780-792	SAND	1201-1202	COAL (MULKY)	1513	G.T-32#,1/4"=62 MCF
792-799	SHALE	1202-1204	LIME	1520	G.T.-28#,1/2"= 222 MCF
799-832	LIME	1204-1249	SHALE /1237 G.T.-SLT BLOW	1525	G.T-35#,1/2"= 260 MCF
832-852	BLACK SHALE	1249-1250	BLK SHALE / COAL ?	1530	GAS TEST - SAME
852-854	LIME	1250-1260	SHALE	1524-1535	GRAY CHERTY LIME
854-873	SHALE	1260-1262	LIME (V-LIME)	1535	TD/ GAS TEST-SAME

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

October 25, 2011

Victor H Dyal
Layne Energy Operating, LLC
P O Box 160
Sycamore, KS 67363

Re: ACO1
API 15-125-32106-00-00
Westfall 3Q-12
NW/4 Sec.12-31S-13E
Montgomery 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