



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: _____



1062077

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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Well Report

VAUGHN 7-5

API Number:

AFE Number: G01029900100

Project Area: SYCAMORE
KS MONTGOMERY
32S - 14E - 5
2284FNL - 2269FEL

AFE Amount: \$0.00

Activity Date	Activity Description
3/1/2011	MIRU Thornton Drilling, drilled 11' hole, 21' deep, rih w/ 1 jt 8-5/8" surface casing. Mixed 4 sxs type 1 cement, dumped dn the back side. SDFN.
3/2/2011	Tih w/ 6-3/4 hammer bit and drill pipe, drilled out from under surface to 1212' TD, testing & pulling samples at zone of interest. PULL BACK TO 900'. SDFN
3/3/2011	RESUME DRILLING FROM 1212' TO TD OF 1463' TAKING SAMPLES FROM ZONES OF INTEREST RD DRILL RIG. MI OSAGE WIRE LINE PULLED OPEN HOLE LOGS FROM LOGGER DEPTH TO SURFACE. JOB COMPLETE RIG DOWN.
3/4/2011	MI PU, RIH w/ 34 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 35 BBL FRESH WTR WASHED DOWN 30' MIXED GEL AND PUMPED 55 BBL TO BRING TO SURFACE. HAD PRESSURE ISSUES PUMPED HOLE CLEAN PUMP 2 BAGS CAUSTIC PRE-FLUSH, 13 BBL DYE WTR. MIXED 155 SKS THICKSET CEMENT WITH # 8 KOL SEAL 1/8 PHENOSEAL 1/4% CFL 115 @ 13.4#/ GAL SHUT DOWN WASH OUT PUMP AND LINES. DISPLACE WITH 23 BBL FRESH WATER HAD GOOD RETURNS 49 BBL SLURRY 8BBL TO PIT PUMPING PRESS 700 BUMP PLUG 1500 JOB COMPLETE RIG DOWN 4-1/2 CASING 34JTS FROM WESTERN PBSD 1456' TD 1463'
3/18/2011	MOL & RU Osage Wireline. Run GR-Ccl-Vcl Cement Bond log from 1453' to Surface. Bond looks good all depths. RDMOL Osage Wireline. Well SI waiting for completion.



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 30305
LOCATION Eureka, KS
FOREMAN Shannon Feck & Russ McCoy

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

FIELD TICKET & TREATMENT REPORT

CEMENT API # 15-125-32051

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-4-2011	4158	Vaughn 7-5	5	32	14	Montgomery
CUSTOMER <u>Layne Energy</u>			Safety meeting S.F. J.G.D.G. RM			
MAILING ADDRESS <u>P.O. Box 160</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Sycamore</u>			<u>445</u>	<u>Dave</u>		
STATE <u>KS</u>			<u>515</u>	<u>J.P.</u>		
ZIP CODE						

JOB TYPE LongString 6 HOLE SIZE 7 1/4 HOLE DEPTH 1463' CASING SIZE & WEIGHT 4 1/2' 10.50#
CASING DEPTH 1456 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 13.4#/gal SLURRY VOL 49 BBL WATER gal/sk _____ CEMENT LEFT in CASING NONE
DISPLACEMENT 23 BBL DISPLACEMENT PSI _____ MIX PSI 100 psi RATE 4 BBL/min

REMARKS: Safety Meeting, Rig up to 4 1/2 casing, wash down 30ft, mix gel and Pumped 55 BBL to bring to surface. Lot of cuttings in the hole, had some pressure issues, Pumped hole clean. Ran 2 bags caustic soda, run 13 BBL Dye water, mix 155 SKS Thick Set with 8# Kol-Seal 1/8# Phenoseal 1/4% CFL-115, shut down wash out pump and lines. Displace with 23 BBL H2O, Had good returns Plug held. Job Complete.

Final Pumping Pressure of 800# Thanks Shannon & Crew
Bumped plug to 1300#

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
1126 A	155 SKS	Thick Set Cement	17.00	2635.00
1110 A	1240#	8# Kol-Seal Per SK	.42	520.80
1107 A	19#	1/8# Phenoseal / SK	1.15	21.85
1135 A	36#	1/4% CFL-115	9.95	358.20
1118 B	500#	Gel Flush	.20	100.00
1105	50#	Hulls	.39	19.50
1103	100#	Caustic Soda	1.45	145.00
5407	8.52	Ton-mileage	1.20	429.66
4156	1	4 1/2 Flapper type Float Sub	175.00	175.00
4453	1	4 1/2 Latch down Plug	155.00	155.00
		Sub total		5631.01
		SALES TAX 6.3%		260.24
		ESTIMATED TOTAL		5891.25

Revin 3737

AUTHORIZATION [Signature] TITLE [Signature] DATE 3-4-2011

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	3/1/2011
Date Completed	3/3/2011

Well No.	Operator	Lease	A.P.I.#	County	State
7-5	Layne Energy Operating	Vaughn	15-125-32051-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			5	32	14

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Billy	Gas	4	21.6 8 5/8	1463	6 3/4

Formation Record

0-13	DIRT	941-947		1307-1319	
13-126	LIME	936	WENT TO WATER	1215-1226	SAND
126-241	SHALE	941-947	SAND	1226-1307	SHALE
241-253	LMY SHALE	947-968	SANDY SHALE	1307-1319	RED SHALE
253-311	SHALE	968-975	SAND	1319-1360	SHALE
311-358	LMY SHALE	975-1005	SANDY SHALE	1360-1368	SAND
358-375	SANDY SHALE	1005-1032	LIME (OSWEGO)	1368-1369	COAL
375-410	SAND	1032-1042	BLK SHALE (SUMMIT)	1369-1410	SHALE
410-531	LIME	1037	GAS TEST-SLIGHT BLOW	1410-1435	MISS. CHATT (MISS.)
411	GAS TEST - NO GAS	1042-1057	LIME	1435-1463	GRAY LIME
531-609	SAND (DAMP)	1057-1066	BLK SHALE (EXCELLO)	1463	GAS TEST - SAME
609-628	LIME	1062	GAS TEST - SAME	1463	TD
628-636	SHALE	1066-1067	COAL (MULKEY)		
636-667	LIME	1067-1072	LIME		
667-673	BLACK SHALE	1072-1089	SHALE		
673-678	SHALE	1087	GAS TEST - SAME		
678-683	BLACK SHALE	1089-1090	COAL (BEVIER)		
683-700	SHALE	1090-1107	SHALE		
686	GAS TEST - NO GAS	1107-1109	LIME (V-LIME)		
700-702	BLACK SHALE	1109-1111	SHALE		
702-724	SHALE	1111-1112	COAL (CROWBERG)		
724-730	LIME	1112-1122	SHALE		
730-774	SANDY SHALE	1112	GAS TEST - SAME		
736	GAS TEST - NO GAS	1122-1157	SANDY SHALE		
774-784	LIME	1157-1158	COAL (MINERAL)		
784-791	SANDY SHALE	1158-1180	SHALE		
791-805	LIME	1180-1185	SAND		
805-906	SANDY SHALE	1185-1214	SANDY SHALE		
906-935	LIME (PAWNEE)	1212	GAS TEST- SLIGHT BLOW		
935-941	BLACK SHALE	1214-1215	COAL		