



KANSAS CORPORATION COMMISSION 1054482
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33365
Name: Layne Energy Operating, LLC
Address 1: 1900 SHAWNEE MISSION PKWY
Address 2: _____
City: MISSION WOODS State: KS Zip: 66205 + 2001
Contact Person: Victor H. Dyal
Phone: (913) 748-3955
CONTRACTOR: License # 33606
Name: Thornton Air Rotary, LLC
Wellsite Geologist: N/A
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 #: _____

<u>12/8/2010</u>	<u>12/9/2010</u>	<u>12/20/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-205-27892-00-00

Spot Description: _____
NE SE NW SW Sec. 28 Twp. 30 S. R. 14 East West
1,805 Feet from North / South Line of Section
1,640 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Wilson
Lease Name: HUMMER Well #: 10J-28

Field Name: _____
Producing Formation: Cattleman

Elevation: Ground: 891 Kelly Bushing: 0
Total Depth: 1262 Plug Back Total Depth: 1233

Amount of Surface Pipe Set and Cemented at: 40 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 1233
feet depth to: 0 w/ 135 sx crnt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated

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: Deanna Garrison Date: 04/28/2011



1054482

Operator Name: Layne Energy Operating, LLC Lease Name: HUMMER Well #: 10J-28
 Sec. 28 Twp. 30 S. R. 14 East West County: Wilson

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 Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No

Electric Log Submitted Electronically Yes No
 (If no, Submit Copy)

List All E. Logs Run:

Compensated Density Neutron
 Dual Induction

Log Formation (Top), Depth and Datum Sample

Name Top Datum
 See attached

CASING RECORD <input checked="" 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
Surface	11	8.625	24	40	Type 1	8	
Production	6.75	4.5	10.5	1232.9	Thickset	134	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	-			
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	Cattleman	10,800 lbs 16/30 & 12/20 sand, 400 gal 15% HCL, 295 bbls gelled water	1123 to 1126 - 1144 to

TUBING RECORD: Size: <u>2.375</u> Set At: <u>1175</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>12/21/2010</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>4</u>	Gas Mcf	Water Bbls. <u>7</u>
			Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)		METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____		PRODUCTION INTERVAL: <u>1120 to 1150</u>
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Well Report

HUMMER 10J-28

API Number:

Project Area:

SYCAMORE
KS Wilson
30S - 14E - 28
1805FSL - 1640FEL

AFE Number: G01013600700

AFE Amount: \$0.00

Activity Date	Activity Description
12/8/2010	MIRU THORNTON DRILLED 11" HOLE 40 DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN
12/9/2010	TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1262' TD, TESTING SAMPLES AT ZONES OF INTEREST RD DRILL RIG MOVE IN OSAGE WIRELINE PULLED LOGS FROM LOGGER DEPTH TO SURFACE RD MOL.
12/10/2010	MI PU, RIH W/31 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 30 BBLs FRESH WATER PUMP 10 SKS GEL FLUSH WITH 5 BBLs WATER SPACER W/HULLS, 20 BBLs CAUSTIC PRE-FLUSH, 10 BBLs DYE WATER, MIXED 135 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/19.6 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, 8 BBLs TO PIT. RD MOL. WELL SHOWED GOOD OIL FLOW TO PIT WHILE RUNNING IN CASING STRING. CSG STRING: 31 JOINTS 4-1/2" LANDED CSG @ 1232.9' PBTd - 1232.9' TD 1262"
12/20/2010	MOL RU Osage Wireline and Consolidated Oil Well Servicing. Osage RIH and ran CBL-CCL-VDL Log from 1222' to surface. Good Bond all depths. Osage Perfed the Cattleman sands from 1123' to 1126' and 1144' to 1150' with 2 spf, 180 degree phase, and 25 gm charges. Total 20 holes. Consolidated rigged up and spotted 100 gallons 15% HCL across Cattleman perms. Pumped 300 gallons additional (400 gal total) 15% HCL with 35 ball sealers. Good ball action and balled off perms. RIH with wireline junkbasket and knock balls off. Fracked Cattleman with 85 bbls PAD (25 ppt gelled water with 2% KCL & biocide) followed with 4,000 lbs 16/30 and 6,800 lbs 12/20 frac sand @ 0.25 ppg - 3 ppg concentration, dropping 7 balls during frac. Flushed with 20 bbls gel. Breakdown 1637 psig, ISIP 568 psig, 5 min 510 psig, 10 min 496 psig, 15 min 487 psig, ATP 850 psig, MTP 948 psig, ATR 26 BPM, MTR 26 BPM. TOTAL JOB: 10,800 lbs 16/30 & 12/20 sand, 400 gallons 15% HCL, and 295 bbls gelled water SI WELL AFTER FRAC TO ALLOW GEL TO BREAK

12/21/2010

TIH W/ TBG WASHED TO TD TIH W/ RODS SPACED ROD STRING HUNG ON JACK.
WASHED 20' OF SAND

TBG STRING
36- 2 3/8 TBG
0- SUBS
SN @ 1175
15' OEMA @ 1180

ROD STRING
46- 3/4 RODS
1-8',1-4' PONYS
1 1/2 X 6' BHD CUP INST PMP
1 1/8 X 11' POLISH ROD

1/11/2011

POOH W/ RODS & PMP REPLACED PMP BECAUSE OF SAND TIH W/ ROD & REBLT PMP
HUNG ON JACK WELL ON PROD.

TBG STRING
36- 2 3/8 TBG
0- SUBS
SN @ 1175
15' OEMA @ 1180

ROD STRING
46- 3/4 RODS
1-8',1-4' PONYS
1 1/2 X 6' BHD CUP INST PMP
1 1/8 X 11' POLISH ROD

1/28/2011

POOH W/ RODS & PMP REPLACED PMP BECAUSE OF SAND TIH W/ ROD & REBLT PMP
HUNG ON JACK WELL ON PROD.

TBG STRING
36- 2 3/8 TBG
0- SUBS
SN @ 1175
15' OEMA @ 1180

ROD STRING
46- 3/4 RODS
1-8',1-4' PONYS
1 1/2 X 6' BHD CUP INST PMP
1 1/8 X 11' POLISH ROD

3/14/2011

MI RU POOH WITH RODS AND PUMP CHECKED FILL TO 32' NO SAND. PUT ON REBUILT
PUMP RAN RODS BACK IN HUNG OFF ON WELL HEAD WELL BACK ON PROD.

TBG STRING
36- 2 3/8 TBG
0- SUBS
SN @ 1175
15' OEMA @ 1180

ROD STRING
46- 3/4 RODS
1-8',1-4' PONYS
1 1/2 X 6' BHD CUP INST PMP
1 1/8 X 11' POLISH ROD

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Conrad, KS 67433

Date Started	12/8/2010
Date Completed	12/9/2010

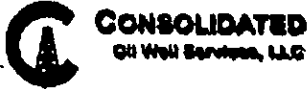
Well No.	Operator	Lease	A.P.I.#	County	State
10J-28	Layne Energy Operating	Hummer	25-205-27892-00-00	Wilson	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			28	30	14E

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Sean	Oil	8	44' 8 5/8	1262	6 3/4

Formation Record

0-2	DIRT	850-869	SANDY SHALE	1173-1179	SAND / ODOR
2-13	CLAY	869-871	LIME	1179-1200	SANDY SHALE
13-49	SHALE	871-872	COAL (MULBERRY)	1200-1262	SHALE
49-55	LIME	872-911	LIME (PAWNEE)	1262	TD
55-70	LIME SHALE	911-916	BLK SHALE (LEXINGTON)		
70-118	LIME	916-953	SHALE		
118-134	SHALE	953-975	LIME (OSWEGO)		
134-146	SAND	975-984	BLK SHALE (SUMMIT)		
146-340	SHALE	984-992	LIME		
340-420	SAND	992-995	BLACK SHALE		
420-448	SHALE	995-996	COAL		
448-558	LIME	996-999	LIME		
536	WENT TO WATER	999-1041	SHALE		
558-563	SHALE	1041-1042	COAL		
563-573	LIME	1042-1058	SHALE		
573-578	SAND	1058-1060	LIME		
578-579	COAL	1060-1061	SHALE		
579-596	SAND	1061-1062	COAL		
596-601	SANDY SHALE	1062-1080	SANDY SHALE		
601-655	LIME	1080-1099	SHALE		
655-685	SHALE	1099-1100	COAL		
685-689	LIME	1100-1106	SHALE		
689-694	SHALE	1106-1123	SANDY SHALE		
694-699	LIME	1123-1130	SAND / ODOR		
699-726	SHALE	1130-1133	SANDY SHALE		
726-735	LIME	1133-1140	SHALE		
735-751	SAND	1140-1153	SAND / ODOR		
751-771	LIME	1153-1156	SANDY SHALE		
771-810	SANDY SHALE	1156-1163	SAND		
810-850	SAND/SANDY SHALE	1163-1173	SANDY SHALE		



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 30072
LOCATION Eureka
FOREMAN Troy Strickler

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-487-8878

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-10-10	4758	Hummer #48-28				Wilson
CUSTOMER Layne Energy			1052 Safety			
MAILING ADDRESS P.O. Box 160			JS			
CITY Symamore		STATE KS	ZIP CODE			

TRUCK #	DRIVER	TRUCK #	DRIVER
485	John		
479	Don		

JOB TYPE 48 0 HOLE SIZE 6 3/4" HOLE DEPTH 1269' CASING SIZE & WEIGHT 4 1/2"
 CASING DEPTH 1237' DRILL PIPE TUBING OTHER
 SLURRY WEIGHT 13.4" SLURRY VOL 42881 WATER gal/blk 8" CEMENT LEFT IN CASING 0'
 DISPLACEMENT 19.6881 DISPLACEMENT PBL 600 MIX PBL 1100 Bags / y RATE

REMARKS: Safety Meeting: Rig up to 4 1/2" casing. Break Circulation w/ 70001 Fresh Water.
Ramp 100k Gal - Fluid, 5001 Under spacer, 2001 Cement Slab Air-Fluid, 10001 Ore water
Mixed 1350k Thick Set Cement incl 8" Kal-Seal /cc, 1/2" Phenoseal /cc, 1/2" FL-110, 1/2" CAF-38 C
13.4"/gal. Wash out Ramp + lines. Release PMG. Displace w/ 19.6881 Fresh
Water. Final Pumping Pressure 600 PSI. Pump Plug to 1100 BSC. Wait 2000. Release
Pressure. Float Held. Good Cement to surface = 2001 Slurry to pit.

Job Complete

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	1350k	Thick Set Cement	17.00	2295.00
1110A	1080"	8" Kal-Seal /cc	.42	453.60
1107A	17"	1/2" Phenoseal	1.15	19.55
1135	68"	1/2" FL-110	7.50	510.00
1146	34"	1/2" CAF-38	7.70	261.80
1118B	500"	Gel-Flush	1.20	100.00
1105	50"	Mud	.37	19.00
1103	100"	Cement Slab	1.45	145.00
5407A	7.47	Tow Mileage	1.20	356.64
5502E	4hrs	ROBOL VAC Truck	85.00/hr	340.00
1123	3000gal	Crly Water	14.90/1000	44.70
4401	1	4 1/2" Top Rubber Plug	45.00	45.00
			Sub Total	5661.74
			SALES TAX	245.37
			ESTIMATED TOTAL	5907.07

Thank You!

AUTHORIZATION Sandy Medler TITLE Drill Person 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 fo.