



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: [X] New Well [] Re-Entry [] Workover [X] 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 #:

12/2/2010 12/3/2010 12/16/2010 Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-205-27889-00-00 Spot Description: NE_NW_SE_SE Sec. 28 Twp. 30 S. R. 14 [X] East [] West 1,005 Feet from [] North / [X] South Line of Section 980 Feet from [X] East / [] West Line of Section Footages Calculated from Nearest Outside Section Corner: [] NE [] NW [X] SE [] SW County: Wilson Lease Name: HUMMER Well #: 16C-28 Field Name: Producing Formation: Cattleman Elevation: Ground: 887 Kelly Bushing: 0 Total Depth: 1237 Plug Back Total Depth: 1203 Amount of Surface Pipe Set and Cemented at: 40 Feet Multiple Stage Cementing Collar Used? [] Yes [X] 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: 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: [X] Wireline Log Received [] Geologist Report Received [] UIC Distribution ALT [] I [X] II [] III Approved by: NAOMI JAMES Date: 04/22/2011



1054468

Operator Name: Layne Energy Operating, LLC Lease Name: HUMMER Well #: 16C-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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Compensated Density Neutron Dual Induction	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See attached
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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	1203	Thickset	135	

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
2	Cattleman	12,000 lbs 16/30 & 12/20 sand, 300 gal 15% HCL, 396 bbls gelled water	1140 to 1150

TUBING RECORD: Size: <u>2.375</u> Set At: <u>1154</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>12/19/2010</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>1</u>	Gas Mcf <u>7</u>	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 <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" 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: <u>1140 to 1150</u>
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Well Report

HUMMER 16C-28

API Number:

AFE Number: G01013600900

Project Area: SYCAMORE
KS Wilson
30S - 14E - 28
1005FSI - 980FEL

AFE Amount: \$0.00

Activity Date	Activity Description
12/2/2010	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
12/3/2010	TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1237' TD, CATCHING SAMPLES AT ZONES OF INTEREST. RD DRILL RIG, RU OSAGE WIRELINE PULL LOGS FROM LOGGER DEPTH TO SURFACE. SDFN
12/6/2010	MI PU, RIH W/31 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 25 BBLs FRESH WATER WASHED DOWN 15' TO PBT D PUMP 10 SKS GEL FLUSH W/HULLS, 25 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/19.1 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, 42 BBLs SLURRY, 8 BBLs TO PIT. RD MOL. CSG STRING: 31 JOINTS 4-1/2" LANDED CSG @ 1202.8' PBT D - 1202.8' TD 1237"
12/16/2010	MOL RU Osage Wireline and Consolidated Oil Well Servicing. Osage RIH and ran CBL-CCL-VDL Log from 1193' to surface. Good Bond all depths. Osage Perfed the Cattleman sands from 1140' to 1150' with 2 spf, 180 degree phase, and 25 gm charges. Total 21 holes. Consolidated rigged up and spotted 100 gallons 15% HCL across Cattleman perfs. Pumped 200 gallons additional (300 gal total) 15% HCL and fracked Cattleman with 83 bbls PAD (25 ppt gelled water with 2% KCL & biocide) followed with 4,000 lbs of 16/30 and 8,000 lbs of 12/20 sand @ 0.25 - 3 ppg concentrations. Flushed with 23 bbls gel. Breakdown 1564 psig, ISIP 679 psig, 5 min 540 psig, 10 min 522 psig, 15 min 514 psig, ATP 950 psig, MTP 1020 psig, ATR 24 BPM, MTR 24 BPM. TOTAL JOB: 12,000 lbs 16/30 & 12/20 sand, 300 gallons 15% HCL, and 396 bbls gelled water SI WELL AFTER FRAC TO ALLOW GEL TO BREAK

12/17/2010

TIH W/ TBG WASHED TO TD TIH W/ RODS SPACED ROD STRING HUNG ON JACK.
WASHED 45' OF SAND

TBG STRING
36- 2 3/8 TBG
1-8',1-6',1-4'- SUBS
SN @ 1154
15' OEMA @ 1169

ROD STRING
45- 3/4 RODS
1-8',1-6' 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
Candy, KS 67333

Date Started	12/2/2010
Date Completed	12/3/2010

Well No.	Operator	Lease	A.P.I.#	County	State
16C-28	Layne Energy Operating	Hummer	15-205-27889-00-00	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
Billy, Sean	Oil	8	40' 8 5/8	1237	6 3/4

Formation Record

0-8	DIRT	911-949	SHALE		
8-50	SHALE	949-972	LIME (OSWEGO)		
50-119	LIME	972-981	BLK SHALE (SUMMIT)		
119-208	SHALE	981-989	LIME		
208-344	LMY SHALE	989-994	BLK SHALE (EXCELLO)		
344-370	SAND	994-995	COAL		
370-400	SANDY SHALE	995-997	LIME		
411	WENT TO WATER	997-1000	SHALE		
400-460	SHALE	1000-1015	SAND		
460-476	LIME	1015-1039	SHALE		
476-483	SHALE	1039-1040	COAL		
483-574	LIME	1040-1057	SHALE		
574-580	SHALE	1057-1058	LIME		
580-596	SAND	1058-1060	SHALE		
596-615	LIME	1060-1061	COAL		
615-619	SHALE	1061-1067	SAND		
619-655	LIME	1067-1097	SANDY SHALE		
655-713	SHALE	1097-1098	COAL		
713-726	LMY SHALE	1098-1118	SHALE		
726-751	SANDY SHALE	1118-1142	SANDY SHALE		
751-766	LIME	1142-1159	SAND / ODOR		
766-780	SAND	1159-1167	SANDY SHALE		
780-786	SANDY SHALE	1167-1180	SHALE		
786-825	SHALE	1180-1186	SAND / LITE ODOR		
825-857	SAND	1186-1237	SANDY SHALE		
857-873	SHALE	1237	TD		
873-900	LIME				
900-903	BLACK SHALE				
903-906	LIME				
906-911	BLACK SHALE				



TICKET NUMBER 30025
 LOCATION Eureka
 FOREMAN Toy Strickler

PO Box 884, Chanute, KS 66720
 620-431-8210 or 800-467-8678

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-6-10	4758	Hummer 16C-28				Wilson
CUSTOMER			TRUCK # DRIVER TRUCK # DRIVER 445 John 479 Ed 437 Sherman			
Layne Energy						
MAILING ADDRESS			P.O. Box 160			
CITY	STATE	ZIP CODE				
Sycamore	Ks					

JOB TYPE LS HOLE SIZE 6 7/8" HOLE DEPTH 1200' CASING SIZE & WEIGHT 4 1/2"
 CASING DEPTH 1203' DRILL PIPE TUBING OTHER
 SLURRY WEIGHT 15.4" SLURRY VOL 4200L WATER gal/ck 8" CEMENT LEFT IN CASING 0'
 DISPLACEMENT 19.180L DISPLACEMENT PSL 600 MIX PSL 1100 g/gal RATE

REMARKS: Safety meeting Rig up to 4 1/2" casing. Reack Circulation w/ 2500l Fresh water. Wash down 15' to PRTD of 1203'. Pump 100K Gel-Flush w/ hulls Pump 2500l water. Rig up to Cement Pump 1000l Cement. Circ. Pump. Release. 1000l Dry water. Mixed 1300l Thick Set Cement w/ 8" Kal-Seal, 1/2" Phenoseal, 1/2 FL-110 + 1/2 CAF-88 C. 13.4 g/gal. Wash out Pump + liner. Release Phys. Displace w/ 19.1 80l Fresh water. Final Pump Pressure 600 PSL. Pump Pkg to 1100 PSL. Wait 2min. Release Pressure. Float Held Cool Cement to surface = 800 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	1353#	Thick Set Cement	17.00	2299.00
1110A	1080"	8" Kal-Seal 1sk	.42	453.60
1107A	17"	1/2" Phenoseal 1sk	1.15	19.55
1135	68"	1/2 FL-110	7.50	510.00
1146	34"	1/2 CAF-88	7.70	261.80
1118A	500"	Gel-Flush	.20	100.00
1105	50"	hulls	.39	19.50
1103	100"	Cement Sds	1.45	145.00
5407A	7.43	Ten-mileage Bulk Truck	1.20	891.64
1123	300gal	City Water	14.90/m	4470.00
5552C	4hrs	8000l Pac Truck	85.00/m	340.00
4404	1	4 1/2" Top Rubber Pkg	45.00	45.00
			Sub Total	5661.79
			SALES TAX	245.35
			ESTIMATED TOTAL	5907.14

AUTHORIZATION [Signature] TITLE [Signature] DATE 6/22

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.