



KANSAS CORPORATION COMMISSION 1054459
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 #:

11/29/2010	11/30/2010	12/16/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-205-27871-00-00
Spot Description:
NE_NE_NW_SE Sec. 28 Twp. 30 S. R. 14 East West
2,465 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 #: 10A-28
Field Name:
Producing Formation: Cattleman
Elevation: Ground: 886 Kelly Bushing: 0
Total Depth: 1237 Plug Back Total Depth: 1226
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: 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:
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 04/22/2011



1054459

Operator Name: Layne Energy Operating, LLC Lease Name: HUMMER Well #: 10A-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
---	---

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	1225.81	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	13,200 lbs 16/30 & 12/20 sand, 400 gal 15% HCL, 452 bbls gelled water	1119 to 1122, 1140 to 1148

TUBING RECORD: Size: <u>2.375</u> Set At: <u>1168</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>7</u>	Gas Mcf	Water Bbls. <u>4</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>1119 to 1148</u>
--	--	---

Well Report

HUMMER 10A-28

API Number:

AFE Number: G01013600600

Project Area: SYCAMORE
KS Wilson
30S - 14E - 28
2465FSL - 1640FEL

AFE Amount: \$0.00

Activity Date	Activity Description
11/29/2010	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
11/30/2010	TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1236' TD, TESTING SAMPLES AT ZONES OF INTEREST RD DRILL RIG SDFN.
12/1/2010	MI RU OSAGE WIRELINE PULLED LOGS FROM LOGGER DEPTH TO SURFACE, NOTED GOOD OIL SHOW ON WIRE MI PU, RIH W/32 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 25 BBLS FRESH WATER PUMP 10 SKS GEL FLUSH W/HULLS, 20 BBLS CAUSTIC PRE-FLUSH, 10 BBLS DYE WATER, MIXED 135 SKS THICK SET 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/19.5 BBLS FRESH WTR. FINAL PUMPING PRESSURE 500 PSI, BUMP PLUG TO 1000 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD GOOD CEMENT RETURNS TO SURFACE, 8 BBLS TO PIT. RD MOL. CSG STRING: 32 JOINTS 4-1/2" LANDED CSG @ 1225.81' PBTD - 1225.81' TD 1237"
12/16/2010	MOL RU Osage Wireline and Consolidated Oil Well Servicing. Osage RIH and ran CBL-CCL-VDL Log from 1216' to surface. Good Bond all depths. Osage Perfed the Cattleman sands from 1119' to 1122' and 1140' to 1148' with 2 spf, 180 degree phase, and 25 gm charges. Total 24 holes. Consolidated rigged up and spotted 100 gallons 15% HCL across Cattleman perfs. Pumped 300 gallons additional (400 gal total) 15% HCL with 40 ball sealers. Good ball action and balled off perfs. RIH with wireline junkbasket and knock balls off. Fracked Cattleman with 175 bbls PAD (25 ppt gelled water with 2% KCL & biocide) followed with 4,200 lbs 16/30 and 9,000 lbs 12/20 frac sand @ 0.25 ppg - 3 ppg concentration, dropping 7 balls during frac. Flushed with 28 bbls gel. During PAD, ice in frack tank plugged valves, had to shut down and de-ice prior to continuing with sand placement pumping. Breakdown 1561 psig, ISIP 620 psig, 5 min 536 psig, 10 min 513 psig, 15 min 502 psig, ATP 960 psig, MTP 1090 psig, ATR 28 BPM, MTR 28 BPM. TOTAL JOB: 13,200 lbs 16/30 & 12/20 sand, 400 gallons 15% HCL, and 452 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 25' OF SAND

TBG STRING
37- 2 3/8 TBG
0- SUBS
SN @ 1168
15' OEMA @ 1183

ROD STRING
46- 3/4 RODS
0 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
37- 2 3/8 TBG
0- SUBS
SN @ 1168
15' OEMA @ 1183

ROD STRING
46- 3/4 RODS
0 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
Caney, KS 67333

Date Started	11/29/2010
Date Completed	11/30/2010

Well No.	Operator	Lease	A.P.I.#	County	State
10A-28	Layne Energy Operating	Hummer	205-27871-00-00	Wilson	Kansas

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

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Billy	Oil	8	40' 8 5/8	1237	6 3/4

Formation Record

0-6	DIRT	749-771	LIME	1100-1118	SHALE
6-50	SHALE	771-781	SAND	1118-1124	SAND / OIL ODOR
50-146	LIME	781-790	SANDY SHALE	1124-1143	SANDY SHALE
146-168	SANDY SHALE (DAMP)	790-808	SHALE	1143-1154	SAND / OIL ODOR
168-200	SHALE	808-814	SANDY SHALE	1154-1159	WHITE SAND
200-208	LIME	814-820	SAND	1159-1172	SANDY SHALE
208-326	SHALE	820-836	SANDY SHALE	1162	GAS TEST - NO GAS
326-380	SAND (WET)	836-857	SAND	1172-1178	SAND
361	GAS TEST - NO GAS	857-866	SHALE	1178-1208	SANDY SHALE
380-450	SANDY SHALE	866-900	LIME (PAWNEE)	1208-1225	RED SHALE
411	GAS TEST - NO GAS	900-904	SHALE	1225-1237	SHALE
450-465	LMY SHALE	904-908	LIME	1237	TD
465-488	SAND	908-915	BLK SHALE (LEXINGTON)		
488-548	LIME	915-951	SHALE		
511	WENT TO WATER	951-975	LIME (OSWEGO)		
548-556	BLACK SHALE	975-981	BLK SHALE (SUMMIT)		
556-571	LIME	981-995	LIME		
571-578	SAND	995-997	BLK SHALE (MULKEY)		
578-579	COAL	997-998	COAL		
579-594	SANDY SHALE	998-1000	LIME		
594-614	LIME	1000-1042	SHALE		
614-625	SHALE	1012	GAS TEST - NO GAS		
625-653	LIME	1042-1043	COAL		
653-662	SHALE	1043-1054	SHALE		
662-671	BLACK SHALE	1054-1056	LIME		
671-683	SHALE	1056-1058	SHALE		
683-685	LIME	1058-1059	COAL (CROWBERG)		
685-715	SHALE	1059-1099	SHALE		
715-729	LIME	1062	GAS TEST - NO GAS		
729-749	SHALE	1099-1100	COAL		



TICKET NUMBER 30011
 LOCATION Euicke K1
 FOREMAN Rick Leaford

PO Box 884, Chanute, KS 66720
 820-431-9210 or 800-487-9676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-1-10	4758	Hummer 10A-28	28	30	1NE	Wilson
CUSTOMER			SAFETY			
MAYNE ENERGY			MEETING			
MAILING ADDRESS			OK DIS			
Box 1100			JIM			
CITY	STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
Sycamore	KS		520	Cliff		
			543	Dave		
			437	Jim		

JOB TYPE Logging HOLE SIZE 6 3/4" HOLE DEPTH 1232' CASING SIZE & WEIGHT 4 1/2" 10.5"
 CASING DEPTH 1236' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 12.4# SLURRY VOL 42 BW WATER gal/sk 8.0 CEMENT LEFT IN CASING 0'
 DISPLACEMENT 19 1/2 AW DISPLACEMENT PBI 500 ~~1000~~ PBI 1000 RATE _____

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 25 gal
fresh water. Pump 10 sec gel-flush w/ bulls, 20 AW caustic soda pre-flush,
10 AW dye water. Mixed 135 sec thickest cement w/ 9" Kot-sol, 1/2" phospor/sk
1/2" 57-110 + 1/2" COP-38 @ 13.4"/gal. without pump & hole shut down. 12 AW plug.
Displace w/ 19 1/2 AW fresh water. Final pump pressure 500 PSIG. Pump plug to
1000 PBI. Wait 2 minutes, release pressure. Shut hold. Good cement returns to surface.
8 AW 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	925.00	925.00
5406	40	MILEAGE	3.65	146.00
1126A	135 AW	thickest cement	17.00	2295.00
1110A	1080"	8" Kot-sol/sk	.42	453.60
1102A	17"	1/2" phospor/sk	1.15	19.55
1135	68"	1/2" 57-110	7.56	510.48
1146	31"	1/2" COP-38	7.70	240.70
1118B	500#	gel-flush	.20	100.00
1105	50"	bulls	.39	19.50
1103	100"	caustic soda	1.45	145.00
5402A	7.43	for mileage bulk fuel	1.20	356.64
5502C	4 hrs	80 AW VAS-TEX	85.00	340.00
1123	3000 gals	city water	14.90/1000	44.70
4404	1	4 1/2" rubber plug	45.00	45.00
			Subtotal	5661.79
			6.30% SALES TAX	245.36
			ESTIMATED TOTAL	5907.14

Rev 01/07

AUTHORIZATION [Signature] TITLE Oil Service 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.

Wichita State Office Bldg.
130 S. Market, Room 2125
Wichita, KS 67202

**WORKOVER PIT APPLICATION
VERBAL AUTHORIZATION**

DATE: 4/22/11 TIME: 5:00 PM
OPERATOR: OLYMPIC OIL INC CONTACT PERSON: KEVIN BOWEN
LEASE NAME: STIRKY E #3
S/2 SW SEC. 27 TWP. 20 RANGE 3 E (W) COUNTY: MP

CONSTRUCTION:
SIZE: WIDTH 10' LENGTH 20' DEPTH 6'
ESTIMATED CAPACITY 80 BBLS

EST. DEPTH TO GROUNDWATER (if known): NA
TYPE OF FLUID: Saltwater Workover Fluids
 Cement Drilling Mud/Cuttings

DOES OPERATOR PLAN TO LINE PIT: YES NO
ESTIMATED TIME BEFORE PIT WILL BE CLOSED: TEMP Days
ANY KNOWN WATER WELLS WITHIN 1/4 MILE OF PIT: YES NO IRRIGATION WELL

K.C.C. INFORMATION: IS PIT IN SGA? YES NO

- K.C.C. DISTRICT #2 RECOMMENDATION (Check One):
- 1. Authorization granted with no liner.
 - 2. Authorization granted, if pit is lined. REMOVE FLUIDS & CLOSE PIT WITHIN 72 HOURS OF COMPLETION
 - 3. Authorization granted, no liner necessary, but free fluids must be removed within _____ hours of completion of workover/plugging operations.
 - 4. No verbal authorization will be given without on-site inspection.

*Remind operator that pit permit form must be filed within five (5) days after verbal authorization.

KEVIN BOWEN (620) 727-0172

RESULTS OF INSPECTION:

M Shane Jones Agent Date 4/22/11

cc: JONELLE RAINS

APPLICATION NOTICE

**As required by the Water Projects Environmental Coordination Act, K.S.A. 82a 325-327
Please Respond to: John R. Roth, PE**

WS No.: SSG-0670
Date of Notice: 4/22/2011

Notice No.: 2011153
Date of Expiration: 5/22/2011

This notice of application is provided so that interested persons and agencies are made aware of the plans submitted.

APPLICANT

Name: City of Wichita
Scott C. Lindebak, PE
Address: 455 N Main, 8th Floor
Wichita, KS 67202
Telephone: 316-268-4545

DESIGNER

Name: Parsons Brinckerhoff, Inc.
Brad Shores, PE
Address: 225 N Market, Suite 350
Wichita, KS 67202
Telephone: 316-425-8924

PROJECT LOCATION/DESCRIPTION: [See attached Application pages, 7½ minute quadrangle map (Wichita West, KS), and aerial photograph]

The project consists of a waterline protection structure in and across Big Slough at a location in the SE 1/4 of the SE 1/4 of the NW 1/4 of Section 03, Township 27 South, Range 01 West, Sedgwick County, Kansas.

STATUTE: K.S.A. 82a-301 *et seq.*

Application Page 2

Application Page 3

Quad

Aerial

Plan Details