

10/9/09

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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33365
Name: Layne Energy Operating, LLC
Address: 1900 Shawnee Mission Parkway
City/State/Zip: Mission Woods, KS 66205
Purchaser: _____
Operator Contact Person: M. Brent Natrass
Phone: (913) 748-3960
Contractor: Name: Thornton Air Rotary
License: 33606

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Wellsite Geologist: _____
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>6/13/2007</u>	<u>6/15/2007</u>	<u>Pending</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 019-26810-00-00
County: Chautauqua
SW SW SW Sec. 8 Twp. 32 S. R. 13 East West
352 feet from S / N (circle one) Line of Section
452 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Brown Well #: 13-8
Field Name: Cherokee Basin Coal Area
Producing Formation: Cherokee Coals
Elevation: Ground: 864' Kelly Bushing: _____
Total Depth: 1650' Plug Back Total Depth: 1644'
Amount of Surface Pipe Set and Cemented at 42 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1644
feet depth to Surface w/ 170 sx cmt.

Drilling Fluid Management Plan AF 41173-2309
(Data must be collected from the Reserve Pit)
Chloride content N/A ppm Fluid volume _____ bbls
Dewatering method used N/A - Air Drilled
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]
Title: Agent Date: Oct 8, 07
Subscribed and sworn to before me this 8 day of October,
2007.
Notary Public: MacLaughlin Darline
Date Commission Expires: 1-4-2009

KCC Office Use ONLY
 Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
RECEIVED
KANSAS CORPORATION COMMISSION

MacLAUGHLIN DARLINE
Notary Public - State of Kansas
My Appt. Expires 1-4-2009

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Operator Name: Layne Energy Operating, LLC Lease Name: Brown Well #: 13-8
 Sec. 8 Twp. 32 S. R. 13 East West County: Chautauqua

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 copy of all Electric Wireline 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 <i>(Submit Copy)</i> List All E. Logs Run: Compensated Density Neutron Dual Induction	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Pawnee Lime</td> <td>1101 GL</td> <td>-237</td> </tr> <tr> <td>Excello Shale</td> <td>1221 GL</td> <td>-357</td> </tr> <tr> <td>V Shale</td> <td>1276 GL</td> <td>-412</td> </tr> <tr> <td>Mississippian</td> <td>1548 GL</td> <td>-684</td> </tr> </table>	Name	Top	Datum	Pawnee Lime	1101 GL	-237	Excello Shale	1221 GL	-357	V Shale	1276 GL	-412	Mississippian	1548 GL	-684
Name	Top	Datum														
Pawnee Lime	1101 GL	-237														
Excello Shale	1221 GL	-357														
V Shale	1276 GL	-412														
Mississippian	1548 GL	-684														

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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	# Sacs Used	Type and Percent Additives
Surface	11"	8.625"	24	42'	Class A	10	Type 1 cement
Casing	6.75"	4.5"	10.5	1644'	Thick Set	170	#10 KOL seal @ sx

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 <i>(Amount and Kind of Material Used)</i>	Depth
	SI-waiting on completion		

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. SI - waiting on pipeline			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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 <input type="checkbox"/> Other (Specify) _____	Production Interval
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CONSERVATION DIVISION
 WICHITA, KS

GEOLOGIC REPORT

LAYNE ENERGY
Brown 13-8
SW SW, 352 FSL, 452 FWL
Section 8-T32S-R13E
Chautauqua County, KS

Spud Date: 6/13/2007
Drilling Completed: 6/15/2007
Logged: 6/15/2007
A.P.I. #: 15019268100000
Ground Elevation: 864'
Depth Driller: 1650'
Depth Logger: 1648'
Surface Casing: 8.625 inches at 42'
Production Casing: 4.5 inches at 1644'
Cemented Job: 0
Open Hole Logs: Dual Induction SFL/GR, High Resolution
Compensated Density/Neutron

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Formation

	Tops	
	(below ground)	(subsea)
Quaternary	Surface (Alluvium)	864
Pawnee Limestone	1,101	-237
Excello Shale	1,221	-357
"V" Shale	1,276	-412
Mineral Coal	0	864
Mississippian	1,548	-684

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WICHITA, KS

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CONSOLIDATED OIL WELL SERVICES, LLC
P.O. BOX 884, CHANUTE, KS 66720
620-431-9210 OR 800-467-8676

OCT 08 2007

TICKET NUMBER 12006

LOCATION EUREKA

FOREMAN Kevin McCoy

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TREATMENT REPORT & FIELD TICKET
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-18-07	4758	Brown 13-8				ELK

CUSTOMER Layne Energy		
MAILING ADDRESS P.O. Box 160		
CITY Sycamore	STATE KS	ZIP CODE

Gus Jones Riq 1

TRUCK #	DRIVER	TRUCK #	DRIVER
445	Justin		
515	CALIN		
452 763	Jim		

JOB TYPE Longstring	HOLE SIZE 6 3/4	HOLE DEPTH 1650'	CASING SIZE & WEIGHT 4 1/2
CASING DEPTH 1638'	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT 13.2*	SLURRY VOL 53 BBL	WATER gal/sk 8.0	CEMENT LEFT in CASING 0'
DISPLACEMENT 26.2 BBL	DISPLACEMENT PSI 1000	PSI 1500 Bump Plug	RATE

REMARKS: Safety Meeting: Rig up to 4 1/2 casing w/ wash head. Break Circulation w/ 35 BBL Fresh water. Wash down 30' casing w/ fresh water. Pump 8 sks Gel Flush w/ Hulls, 10 BBL water spacer, 20 BBL metasilicate pre flush, 5 BBL water spacer, 18 BBL Dye water. Shut down. Rig up Cement Head. Mixed 170 sks Thick Set Cement w/ 10* Kol-Seal per/sk, FL 110, @ 13.2* per/gal, yield 1.75. (while mixing Cement Annulus of 4 1/2 keep Bridging off, Pressure would increase from 500 psi to 1500 psi). Wash out Pump & Lines. Shut down, Release Plug. Displace w/ 26.2 BBL Fresh water. Final Pumping Pressure 1000 psi. Bump Plug to 1500 psi.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	840.00	840.00
5406	40	MILEAGE	3.30	132.00
1126 A	170 SKS	THICK Set Cement	15.40	2618.00
1110 A	1700 *	Kol-Seal 10* per/sk	.38 *	646.00
1135	35 *	FL 110	6.85 *	N.C.
1118 A	400 *	Gel Flush	.15 *	60.00
1105	50 *	Hulls	.36 *	18.00
1102	80 *	CaCl2	.67 *	53.60
1111 A	100 *	Metasilicate pre flush	1.65 *	165.00
5407 A	9.35 TONS	40 miles Bulk TRUCK	1.10	411.40
5501 C	4 Hrs	water Transport	100.00	400.00
1123	4200 GALS	City water	12.80/1000	53.76
4404	1	4 1/2 Top Rubber Plug	40.00	40.00
		Sub Total		5437.76
		THANK you	6.3%	SALES TAX 230.23

214174

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AUTHORIZATION Called By Mike Taylor

TITLE

DATE

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WICHITA, KS