

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

**CONFIDENTIAL**

Operator: License # 33365 33152  
Name: Layne Energy Operating, LLC  
Address: 1900 Shawnee Mission Pkwy  
City/State/Zip: Mission Woods, KS 66205  
Purchaser: \_\_\_\_\_  
Operator Contact Person: M. B. Natrass  
Phone: (913) 748-3987  
Contractor: Name: Layne Christensen Canada, Ltd.  
License: 32999  
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: LAYNE ENERGY OPERATING LLC  
Well Name: SCHMIDT 13-4

Original Comp. Date: 6-7-03 Original Total Depth: 1256  
\_\_\_\_ 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. \_\_\_\_\_

May 24, 2005 August 29, 2002 May 26, 2005  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 125-30148 - 00 - 01  
County: Montgomery  
SW SW. \_\_\_\_ Sec. 4 Twp. 33 S. R. 16  East  West  
941 feet from  S /  N (circle one) Line of Section  
443 feet from E /  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW  SW  
Lease Name: Schmidt Well #: 13-4

Field Name: Brewster  
Producing Formation: Cherokee Coals  
Elevation: Ground: 838 Kelly Bushing: \_\_\_\_\_  
Total Depth: 1256 Plug Back Total Depth: 1214  
Amount of Surface Pipe Set and Cemented at 21 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1252  
feet depth to Surface w/ 150 sx cmt.  
ACT II WITHM 5-10-06

Drilling Fluid Management Plan  
(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.: SEP 21 2005  
Quarter \_\_\_\_ Sec. \_\_\_\_ Twp. \_\_\_\_ S. R. \_\_\_\_ East West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_ CONSERVATION DIVISION  
WICHITA, KS

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SEP 21 2005  
CONSERVATION DIVISION  
WICHITA, KS

**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: M B Natrass  
Title: Agent Date: 9/20/05  
Subscribed and sworn to before me this 20<sup>th</sup> day of September  
2005  
Notary Public: M. Allen  
Date Commission Expires: 10/14/2008

**KCC Office Use ONLY**  
YES Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
NO Wireline Log Received  
NO Geologist Report Received  
NO UIC Distribution

MARGARET ALLEN  
Notary Public - State of Kansas  
My Appt. Expires 10/14/2008

Operator Name: Layne Energy Operating, LLC Lease Name: Schmidt Well #: 13-4  
 Sec. 4 Twp. 33 S. R. 16 East West County: Montgomery

**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 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	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> Log</td> <td style="text-align: center;">Formation (Top), Depth and Datum</td> <td style="text-align: center;">Sample</td> </tr> <tr> <td></td> <td style="text-align: center;">Name</td> <td style="text-align: center;">Top Datum</td> </tr> <tr> <td></td> <td>Pawnee Lime</td> <td style="text-align: center;">572 KB 269</td> </tr> <tr> <td></td> <td>Excello Shale</td> <td style="text-align: center;">736.2 KB 105</td> </tr> <tr> <td></td> <td>V Shale</td> <td style="text-align: center;">788.8 KB 52</td> </tr> <tr> <td></td> <td>Weir - Pitt Coal</td> <td style="text-align: center;">946.25 KB -105</td> </tr> <tr> <td></td> <td>Mississippian</td> <td style="text-align: center;">1167.6 KB -327</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	Sample		Name	Top Datum		Pawnee Lime	572 KB 269		Excello Shale	736.2 KB 105		V Shale	788.8 KB 52		Weir - Pitt Coal	946.25 KB -105		Mississippian	1167.6 KB -327
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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	12 1/4	8.65	23	21	Portland	8	
Casing	7 7/8	5.5	15.5	1256	Thix, Glsnite	150	2% Ccl2, 6% Cls

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
	See Attached	<b>RECEIVED</b> <b>KANSAS CORPORATION COMMISSION</b>  <b>SEP 21 2005</b>  <b>CONSERVATION DIVISION</b> <b>WICHITA, KS</b>	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8	1174.5'		Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.	Producing Method			
5/27/2005	Flowing <input type="checkbox"/> Pumping <input checked="" type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	0	0	76	

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented  Sold  Used on Lease Open Hole  Perf. Dually Comp.  Commingled  
*(If vented, Submit ACO-18.)*  Other (Specify)

**CONFIDENTIAL**

**KCC**

**SEP 20 2005**

**ORIGINAL**

**CONFIDENTIAL**

<b>Operator Name:</b>	Layne Energy Operating, LLC.		
<b>Lease Name:</b>	Schmidt 13-4		
	Sec. 4 Twp. 33S Rng. 16E, Montgomery County		
<b>API:</b>	15-125-30148		
<b>Shots per Foot</b>	<b>Perforation Record</b>	<b>Acid, Fracture, Shot, Cement Squeeze Record</b>	<b>Depth</b>
4	916-919	Weir - 250g 15% HCL + 250 g Regas + 100 B KCL	916-919
New Perforations			
4	1152-1154.5, 1094-1095.5, 950-955	Riverton, Rowe, Sycamore, Weir (existing) - 2,100gal 15% HCL Acid, 590 bbls water, 5,459 # 20/40 Sand	950-1154.5
4	832.5-834, 792-794, 764.5-766	Mineral, V Shale, Ironpost - 900gal 15% HCL Acid, 430 bbls water, 3,307 # 20/40 Sand	764.5-834
4	740-744.5, 711-715.5, 614-616	Excello Shale, Summit, Lexington - 1,925gal 15% HCL Acid, 515 bbls water, 4,724 # 20/40 Sand	614-744.5

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