

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

7/21/10

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: Timothy H. Wright
Phone: (913) 748-3960
Contractor: Name: Thornton Drilling
License: 33606
Wellsite Geologist: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expt, Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
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Operator: _____

Well Name: **KCC**
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. _____

5/1/2001 5/1/08 5/6/2008 7/2/2008
Spud Date or _____ Date Reached TD _____ Completion Date or _____
Recompletion Date _____

API No. 15 - 019-26892-00-00

County: Chautauqua

_____ SW SW Sec. 16 Twp. 32 S. R. 13 East West

421 feet from **(S)** / N (circle one) Line of Section

351 feet from E / **(W)** (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW **(SW)**

Lease Name: Hunn Well #: 13-16

Field Name: Cherokee Basin Coal Area

Producing Formation: Cherokee Coals

Elevation: Ground: 899' Kelly Bushing: _____

Total Depth: 1537' Plug Back Total Depth: 1510'

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 1516

feet depth to Surface w/ 215 sx cmt.

Drilling Fluid Management Plan Alt II NH 8-13-08
(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.: _____

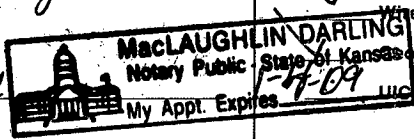
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side 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: _____
Title: Agent Date: 7-21-08

Subscribed and sworn to before me this 21 day of July
08

Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2009



KCC Office Use ONLY

Letter of Confidentiality Attached
 If Denied, Yes Date: _____

Wireline Log Received _____
Geologist Report Received _____
UIC Distribution _____

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CONSERVATION DIVISION
WICHITA, KS

Operator Name: Layne Energy Operating, LLC Lease Name: Hunn Well #: 13-16
 Sec. 16 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 border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Datum</th> </tr> </thead> <tbody> <tr> <td>Pawnee Lime</td> <td>1061 GL</td> <td>-162</td> </tr> <tr> <td>Excello Shale</td> <td>1189 GL</td> <td>-290</td> </tr> <tr> <td>V-Shale</td> <td>1240 GL</td> <td>-341</td> </tr> <tr> <td>Mineral Coal</td> <td>1281 GL</td> <td>-382</td> </tr> </tbody> </table>	Name	Top	Datum	Pawnee Lime	1061 GL	-162	Excello Shale	1189 GL	-290	V-Shale	1240 GL	-341	Mineral Coal	1281 GL	-382
Name	Top	Datum														
Pawnee Lime	1061 GL	-162														
Excello Shale	1189 GL	-290														
V-Shale	1240 GL	-341														
Mineral Coal	1281 GL	-382														

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KCC 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	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1516'	Thick Set	215	50/50 posmix w/2% gel

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 Page		
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		CONSERVATION DIVISION WICHITA, KS	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2-3/8"	1388'			
Date of First, Resumerd Production, SWD or Enhr.			Producing Method			
7/3/2008			<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	0	14	0			

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input checked="" type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Hunn 13-16		
	Sec. 16 Twp. 32S Rng. 13E, Chautauqua County		
API:	15-019-26882-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perforations (May/June 2008)			
4	Burgess Sand 1514' - 1519'	n/a	1514' - 1519'
4	Mineral 1280' - 1281.5' Croweburg 1240' - 1242.5' Iron Post 1220' - 1221.5'	7800 lbs 20/40 sand 545 bbls water 500 gals 15% HCl acid	1220' - 1281.5'
4	Mulky 1190' - 1194' Summit 1171' - 1173'	7400 lbs 20/40 sand 426 bbls water 800 gals 15% HCl acid	1171' - 1194'

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GEOLOGIC REPORT

LAYNE ENERGY
Hunn 13-16
SW SW, 421 FSL, 351 FWL
Section 16-T32S-R13E
Chautauqua County, KS

Spud Date: 5/1/2008
Drilling Completed: 5/6/2008
Logged: 5/6/2008
A.P.I. #: 15019268920000
Ground Elevation: 899'
Depth Driller: 1537'
Depth Logger: 1539'
Surface Casing: 8.625 inches at 42'
Production Casing: 4.5 inches at 1516.2'
Cemented: Consolidated
Open Hole Logs: Dual Induction SFL/GR, Litho Density /
Neutron Logs

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Formation

Tops

(below ground)

(subsea)

Quaternary	Surface (Alluvium)	899
Pawnee Limestone	1,061	-162
Excello Shale	1,189	-290
"V" Shale	1,240	-341
Mineral Coal	1,281	-382
Mississippian		

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CONSERVATION DIVISION
WICHITA, KS

Daily Well Work Report

HUNN 13-16

5/1/2008

Well Location:
CHAUTAUQUA KS
32S-13E-16 SW SW
421FSL / 351FWL

Cost Center G01026900100
Lease Number G010269
Property Code KSLE32S13E1613
API Number 15-019-26892

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
5/1/2008	5/6/2008	5/28/2008	7/3/2008	7/3/2008	HUNN_13_16
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1537	1516.2	42	1516.2	0	0

Reported By KRD **Rig Number** **Date** 5/1/2008
Taken By KRD **Down Time**
Present Operation DRILL OUT SURFACE **Contractor** THORNTON

Narrative JUL 21 2008

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 42' DEEP, RIH W/ 1 JT 8 5/8" SURFACE CASING, MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
DWC:\$3160

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

ENTERED

TICKET NUMBER 13978
 LOCATION Eureka
 FOREMAN Troy Strickler

**TREATMENT REPORT & FIELD TICKET
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-6-08	4758	Hunn 13-16				CG
CUSTOMER						
Layne Energy						
MAILING ADDRESS						
P.O. Box 160						
CITY		STATE	ZIP CODE			
Sycamore		Ks				
TRUCK # DRIVER TRUCK # DRIVER						
520 Cliff						
502 Phillip						

JOB TYPE Logging HOLE SIZE 6 3/4" HOLE DEPTH 1537' CASING SIZE & WEIGHT 4 1/2"
 CASING DEPTH 1516' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.9" SLURRY VOL 53.6 Bbl WATER gal/sk 6' CEMENT LEFT in CASING 0'
 DISPLACEMENT 24.1 DISPLACEMENT PSI 600 MIX PSI 1100 Bump Ply RATE _____

REMARKS: Safety Meeting - Rig up to 4 1/2" casing. Break circulation w/ 7000 water.
Wash 25' of sand to P.B.T.O. 1516'. Rig up to cement. Pump 6000 Gal - Flush
w/ Hulls, 10000 water. Mixed 215 Sks 50/50 Poz-mix w/ 2% Gel, 2% Cacl₂, 4"
Kal-Seal 4" P/te, 3" Cal-Seal 4" P/te, 1/2" Floccle P/te, 1/2% FL-110, 1/4% CAF-38 @ 13.9" P/te.
Wash out Pump & lines. Release Plug. Displace w/ 24.1 Bbl water. Final
Pumping Pressure = 600 PSI. Bump Ply to 1100 PSI wait 2 mins. Release Pressure
Flocc Held. 6000 Cement to surface = 6 Bbl slurry to pit.
 III 21 2008 Job Complete

KCC

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	875.00	875.00
5406	40	MILEAGE	3.45	138.00
1124	215 Sks	50/50 Poz-mix Cement	9.30	1999.50
1118A	360 #	2% Gel	.16 #	57.60
1102	360 #	2% Cacl ₂	.70 #	252.00
1110A	860 #	Kal-Seal 4" P/te	.40 #	344.00
1101	645 #	Cal-Seal 3" P/te	.35 #	225.75
1107	26 #	1/2" Floccle P/te	1.98 #	51.48
1135	90 #	1/2% FL-110	7.15 #	643.50
1146	45 #	1/4% CAF-38	7.30 #	328.50
1118A	300 #	Gel-Flush	.16 #	48.00
1105	50 #	Hulls	.37 #	18.50
5407A	9.0 Ton	Ton-Mileage	1.14	410.40
4404		4 1/2" Top Rubber Ply	42.00	42.00
		Thank u!		
			Sub Total	5434.23
			SALES TAX 6.3%	252.69
			ESTIMATED TOTAL	5686.92

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AUTHORIZATION witnessed by Jacob

TITLE G-Rp

DATE _____