

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

CONFIDENTIAL

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

5/04/11

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: _____

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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. _____

1/14/2009 1/19/2009 Pending

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 205-27744-00-00

County: Wilson

NW NW SW Sec. 22 Twp. 30 S. R. 16 East West

1990 FSL _____ feet from S / N (circle one) Line of Section

552 FWL _____ feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

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

Lease Name: Hare Well #: 12-22

Field Name: Cherokee Basin Coal Area

Producing Formation: Cherokee Coals

Elevation: Ground: 789' Kelly Bushing: _____

Total Depth: 911' Plug Back Total Depth: 909'

Amount of Surface Pipe Set and Cemented at 22 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 909

feet depth to Surface w/ 100 sx cmt.

Drilling Fluid Management Plan AKINS 1-19-10
(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: Project Engineer Date: 4/30/09

Subscribed and sworn to before me this 30 day of April

20 09

Notary Public: MacLaughlin Darling

Date Commission Expires: 1-4-2013

MacLAUGHLIN DARLING
Notary Public - State of Kansas
My Appt. Expires 1-4-2013

RECEIVED

KCC Office Use ONLY JUN 05 2009

Letter of Confidentiality Received **KCC WICHITA**

If Denied, Yes Date: _____

Wireline Log Received **KANSAS CORPORATION COMMISSION**

Geologist Report Received

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Operator Name: Layne Energy Operating, LLC Lease Name: Hare Well #: 12-22
 Sec. 22 Twp. 30 S. R. 16 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy)
 List All E. Logs Run:

<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample		
Name	Top	Datum
Pawnee Lime	477 GL	312
Excello Shale	599 GL	190
V-Shale	658 GL	131
Mineral Coal	695 GL	94

Compensated Density Neutron
 Dual Induction

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CASING RECORD <input 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	22"	Class A	4	Type 1 cement
Casing	6.75"	4.5"	10.5	909'	Thick Set	100	8 lbs KOL seal

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

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TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.	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

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Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)
 METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)
 Production Interval

JUN 05 2009

KCC WICHITA

GEOLOGIC REPORT

LAYNE ENERGY

Hare 12-22

NW NW SW, 1,190 FSL, 552 FWL

Section 22-T30S-R16E

Wilson County, KS

Spud Date: 1/14/2009
Drilling Completed: 1/19/2009
Logged: 1/19/2009
A.P.I. #: 15205276670000
Ground Elevation: 789
Depth Driller: 911
Depth Logger: 911
Surface Casing: 8.625 inches at 22'
Production Casing: 4.5 inches at 909

Cemented Job:

Open Hole Logs:

High Resolution Compensated Density Sidewall
Neutron Log; Dual Induction LL3/GR Log

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Formation

	Tops	
	(below ground)	(subsea)
Surface (Iola		
Limestone)		789
Kansas City Group	477	312
Pawnee Limestone	599	190
Excello Shale	658	131
"V" Shale	695	94
Mineral Coal		

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Daily Well Work Report

HARE 12-22
1/19/2009

Well Location:
WILSON KS *NW*
30S-16E-22 NW SW
1990FSL / 552FWL

Cost Center C01027400100
Lease Number C010274
Property Code KSCV30S16E2212
API Number 15-205-27744

Spud Date 1/14/2009 **RDMO Date** 1/19/2009 **First Compl** **First Prod** **EFM Install** **CygnelID**

TD 911 **PBTD** 909 **Sf Csg Depth** 22 **Pr Csg Depth** 909 **Tbg Size** 0 **Csg Size** 0

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Reported By *WAT* *krd* **Rig Number** **Date** 1/14/2009
Taken By *KCC* *krd* **Down Time**
Present Operation DRILL OUT SURFACE **Contractor** THORNTON DRILLING

Narrative

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 22' DEEP, RIH W/1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
DWC:\$2880

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CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 20734
LOCATION Eureka
FOREMAN Tray Strickler

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-20-09	4758	Harc 12-22				Wilson
CUSTOMER			TRUCK #			
Layne Energy			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 160			DRIVER			
CITY						
STATE						
ZIP CODE						
Sycamore			Ks			

JOB TYPE L/S HOLE SIZE 6-3/4" HOLE DEPTH 911" CASING SIZE & WEIGHT 4 1/2" 10.5"
 CASING DEPTH 908' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.4° SLURRY VOL _____ WATER gal/sk 8° CEMENT LEFT in CASING 0'
 DISPLACEMENT 14.4 @ DISPLACEMENT PSI 400 MIX PSI 900 @ 1/2" plug RATE _____

REMARKS: Safety Meeting: Rig up to 4 1/2" casing. Break Circulation w/ 40 @ water.
Pump 10sk Gel - Flush w/ Hulls. 2 @ water. spacer. Mixed 100sk Thick set
Cement w/ 8" Kol-Seal, 1/2" Phenoseal, 1/2% FL-110, + 1/4% CAF-38 @ 13.4°/gal.
Wash out Pump + liner. Release Plug. Displace w/ 14.4 @ water. Final Pump
Pressure 400PSI. Bump Plug. to 900PSI wait 2min. Release Annular
Float held. Cement to surface = 8 @ slurry to ft. (Displaced @ 48PM)

MAY 04 2009 Job Complete
KOC

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	870.00	870.00
5406	40	MILEAGE	3.45	138.00
1126A	100sk	Thick set Cement	16.00	1600.00
1110A	800"	Kol-Seal 8"/sk	.39"	312.00
1107A	13"	Phenoseal 1/2"/sk KANSAS CORPORATION COMMISSION	1.08"	14.04
1135	47"	FL-110- 1/2%	7.05"	331.35
1146	24"	CAF-38 1/4%	7.25"	174.00
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1118A	500"	Gel-Flush	.16"	80.00
1105	50"	Hulls	.37"	18.50
5407A	5.5 Ton	Ton-Mileage	1.16	255.20
4404	1	4 1/2" Top Rubber Plug	43.00	43.00
5605A	4hrs	Welder	85.00	340.00
4311	1	4 1/2" weld on Collar	70.00	70.00
			Sub Total	4246.09
			6.5% SALES TAX	166.51
			ESTIMATED TOTAL	4412.60

Ravin 3737

Thank!
228540
Co-Rep

AUTHORIZATION called by Mygor TITLE _____ DATE _____