

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

5/14/12

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: Victor H. Dyal
Phone: (913) 748-3960
Contractor: Name: Kurtis Energy, LLC
License: 34133

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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>2/2/2010</u>	<u>2/11/2010</u>	<u>3/8/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-31918-00-00

County: Montgomery

NE NE NE NE Sec. 3 Twp. 31 S. R. 14 East West

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

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

Footages Calculated from Nearest Outside Section Corner:

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

Lease Name: Zook Well #: 1A-3

Field Name: Cherokee Basin Coal

Producing Formation: Cattleman Sands

Elevation: Ground: 922' Kelly Bushing: _____

Total Depth: 1272' Plug Back Total Depth: 1267'

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 1267'

feet depth to Surface w/ 135 sx cmt.

Drilling Fluid Management Plan AA INJ 51810
(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: Victor H. Dyal

Title: Manager of Engineering Date: May 14, 2010

Subscribed and sworn to before me this 14 day of May

20 10

Notary Public: MacLaughlin Darling

Date Commission Expires: 1-4-2013

KCC Office Use ONLY

Letter of Confidentiality Attached

If Denied, Yes Date: _____

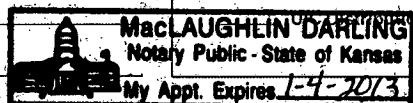
Wireline Log Received

Geologist Report Received

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Operator Name: Layne Energy Operating, LLC Lease Name: Zook Well #: 1A-3
 Sec. 3 Twp. 31 S. R. 14 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 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:

Compensated Density Neutron
 Dual Induction

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 See Attached Driller's Log

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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	# Sacjs Used	Type and Percent Additives
Surface	8-3/4"	7"		21'	Portland	8	Type 1 cement
Casing	5-7/8"	2-7/8"		1267'	Thick Set	135	

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
2	Cattleman Sands 1176'-1188'	3500 lbs 20/40 Sand	1176'-1188'
		3500 lbs 12/20 Sand	
		450 gals 15% HCl	
		264 bbls gelled water	

TUBING RECORD	Size 2-3/8"	Set At 1240'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumerd Production, SWD or Enhr. 3/14/2010	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. 20	Gas Mcf 55	Water Bbls. 0	Gas-Oil Ratio Gravity

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

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DRILLERS LOG

API NO. 125-31918-00-00 **Sec. 3** **Twp. 31 R. 14 E**
OPERATOR: Layne Energy Operating, LLC **LOCATION:** NE - NE-NE-NE
ADDRESS: 1900 Shawnee Mission Parkway **COUNTY:** Montgomery
Mission Woods, KS 66205-2001
WELL #: 1A-3 Zook **LEASE NAME:** Zook
FOOTAGE LOCATION: 165 ft. from N line 165 ft. from E Line
CONTRACTOR: Kurtis Energy **GEOLOGIST:** Roland Yokum
SPUD DATE: 2/2/2010 **TOTAL DEPTH:** 1,275 ft.
DATE COMPLETED: 2/10/2010 **OIL PURCHASER:** _____

Casing Record

PURPOSE	SIZE OF HOLE	SIZE OF CASING	WEIGHT LBS/FT	SETTING DEPTH	TYPE CEMENT	SACKS	TYPE AND % ADDITIVES
SURFACE:	8-3/4"	7"		20 ft.	Portland	8	
PRODUCTION:	5-7/8"	2-7/8"		1,271 ft.			

Well Log

CORES: 1

RAN: _____

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FORMATION	TOP	BOTTOM
Topsoil	0	3
Clay	3	14
Lime	14	20
Shale	20	26
Lime	26	34
Shale	34	38
Lime	38	75
Shale	75	168
Sand	168	185
Sandy Shale	185	296
Sand	296	415
Lime	415	420
Sand	420	440
Lime	440	531
Shale	531	539
Lime	539	560
Sandy Shale	560	589
Lime	589	614
Shale	614	620
Lime	620	653
Shale	653	671
Lime	671	673
Shale	673	681
Lime	681	683
Shale	683	710
Lime	710	728
Sandy Shale	728	750
Shale	1058	1064
Lime	1064	1079
Sandy Shale	1079	1103

FORMATION	TOP	BOTTOM
Lime	750	751
Shale	751	755
Lime	755	765
Shale	765	767
Lime	767	777
Sand	777	786
Sandy Shale	786	884
Lime	884	917
Shale	917	921
Sandy Shale	921	967
Lime	967	995
Shale	995	1000
Lime	1000	1010
Shale	1010	1015
Lime	1015	1020
Sandy Shale	1020	1078
Lime	1078	1081
Sandy Shale	1081	1165
Shale	1165	1168
Sandy Shale	1168	1173
Sand	1173	1189
Shale	1189	1197
Coal	1197	1200
Sandy Shale	1200	1234
Coal	1234	1235
Shale	1235	1270

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Daily Well Work Report

ZOOK 1A-3

2/2/2010

Well Location:

MONTGOMERY KS
31S-14E-3 NE NE NE NE
165FNL / 165FEL

Cost Center

G01020800200

Lease Number

G010208

Property Code

KSSY31S14E0301

API Number

15-125-31918

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
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2/2/2010	2/11/2010	3/8/2010	3/14/2010		
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TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
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1272	1267	21	1267	0	0
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Reported By KRD

Rig Number

Date

2/2/2010

Taken By KRD

Down Time

Present Operation SET SURFACE

Contractor

KURTIS ENERGY

Narrative

MIRU Kurtis Energy, drilled 11" hole 21' deep, RIH w/1 JT 7" surface casing. Mixed 8 sx type 1 cement, dumped down the backside. SDNN

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