# CONFIDENTIAL

Form Must Be Typed

KANSAS CORPORATION COMMISSION ORIGINAL
OIL & GAS CONSERVATION DIVISION **WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE** 

Operator: License # 33365	API No. 15 - 125-31918-00-00
Name: Layne Energy Operating, LLC	County: Montgomery
Address: 1900 Shawnee Mission Parkway	NE_NE_NE_NE_Sec. 3 Twp. 31 S. R. 14  East West
City/State/Zip: Mission Woods, KS 66205	165 feet from S / (N) (circle one) Line of Section
171.0	165 feet from (E) W (circle one) Line of Section
Victor H. Dval	
Phone: (913 ) 748-3960 MAI - IDENTI	(circle one) NE SE NW SW
Phone: (913) 748-3960  Contractor: Name: Kurtis Energy, LLC  CONFIDENTIA	Lease Name: Zook Well #: 1A-3
License: 34133	Field Name: Cherokee Basin Coal
Wellsite Geologist:	Producing Formation: Cattleman Sands
Designate Type of Completion:	Elevation: Ground: 922' Kelly Bushing:
New Well Re-Entry Workover	Total Depth: 1272' Plug Back Total Depth: 1267'
✓ Oil SIOW Temp. Abd.	Amount of Surface Pipe Set and Cemented at 21' Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth set Feet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 1267'
Operator:	feet depth to_Surfacew/_ 135sx cmt.
Well Name:	114 meters 1 h and a
Original Comp. Date: Original Total Depth:	Orilling Fluid Management Plan  (Data must be collected from the Reserve Plt)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content N/A ppm Fluid volume bbls
Plug Back Plug Back Total Depth	Dewatering method used N/A - Air Drilled
Commingled Docket No.	
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Operator Name:
2/2/2010 2/11/2010 3/8/2010	Lease Name: License No.:
2/2/2010         2/11/2010         3/8/2010           Spud Date or         Date Reached TD         Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workove information of side two of this form will be held confidential for a period of 1	n the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, er or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 12 months if requested in writing and submitted with the form (see rule 82-3-3 and geologist well report shall be attached with this form. ALL CEMENTING S. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regulate herein are complete and correct to the best of my knowledge.	ate the oil and gas industry have been fully complied with and the statements
Signature: AND HINGS	KCC Office Use ONLY
Title: Manager of Engereering Date: Manager of Engereering	Letter of Confidentiality Attached
Subscribed and sworn to before me this 4 day of May	If Denied, Yes Date:
20 10	Wireline Log Received RECEIVED
	Geologist Report Received MAY 1 7 2010
Notary Public: Mac Jauflelen Harling	A MacLAUGHLIN DARLING"
Date Commission Expires: 1-4-2013	Notary Public - State of Kansas

My Appt. Expires 1-4-20/3.

ec. 3 Twp. 3		ayne Energy Operating, LLC			Lease Name: Zook			Well #:		
	1S. R14	R. 14			gomery					
sted, time tool open mperature, fluid rec	n and closed, flowing covery, and flow rate	and base of formations pog g and shut-in pressures, as if gas to surface test, a final geological well site r	whether sh long with fi	ut-in pres	sure reached	static level, hydro	ostatic pressui	res, bottom hole		
rill Stem Tests Taker (Attach Additional S		✓ Log Formation (Top), Depth a			and Datum	Sample				
amples Sent to Geo	ŕ	☐ Yes 🗸 No	. √No		Name			Datum		
ores Taken ectric Log Run	,	Yes No Yes No		See Attached Driller's Log				KCC		
(Submit Copy)		• .					MAY 1 4 2010 CONFIDENTIAL			
st All E. Logs Run:										
Compensated De Dual Induction	ensity Neutron		,		·		00			
<u> </u>					·					
		CASING Report all strings set-c	RECORD onductor, sur	✓ New rface, interi	_	tion, etc.				
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weig Lbs./		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	CEMENTIN	NG / SQUE	EZE RECORD	)				
Purpose:	Depth Top Bottom	Type of Cement		#Sacks Used Type and Percent Additives				s .		
Protect Casing Plug Back TD Plug Off Zone		•					<u></u>			
Shots Per Foot		ON RECORD - Bridge Plug				cture, Shot, Cemen				
	Cattleman Sands	Footage of Each Interval Per	forated			nount and Kind of Ma	aterial Used)	Depth 1176'-1188'		
	Cattleman Sands				3500 lbs 12/20 Sand					
					450 gals 15% HCI					
	· · · · · · · · · · · · · · · · · · ·				264 bbls gelle	d water				
UBING RECORD 2-3/	Size /8"	Set At 1240' .	Packer At	t .	Liner Run	Yes 🗸 No				
ate of First, Resumerd 3/14/2010	Production, SWD or E	Enhr. Producing Met		Flowing	✓ Pumpir	ng Gas Lil	tt Oth	uer (Explain)		
stimated Production Per 24 Hours	Oil 20	Bbls. Gas 55	Mcf	Water 0	8	bls. C	Gas-Oil Ratio	Gravity		
isposition of Gas	METHOD OF (	COMPLETION	L		Production Inter	val		RECEIVE		
Vented Sold (If vented, Sub	Used on Lease	Open Hole Other (Speci	Oil & Ga	☑ Du as Complet	ally Comp. ion	Commingled _	· · · · · · · · · · · · · · · · · · ·	MAY 17 26		

# DRILLERS LOG

125-31918	3-00-00		Sec. 3	Twp. 31	R. 14 E	_
Layne En	ergy Opera	ating, LLC	LOCATI	ION: NE - NE	-NE-NE	
				ITY: Montgor	nery	
		00203-2001	LEASE NA	ME: Zook		
165	ft. from	N line	*	165 ft. from	E Line	
Kurtis Ene	rgy	M.W	GEOLOGI	IST: Roland	okum (	Maritan and Control of Control
2/2/2010	)		TOTAL DEP	TH: 1,275 ft.		
2/10/2010	)		OIL PURCHASI	ER:		
			Casing Reco	rd		
SIZE OF HOLE	SIZE OF CASING	WEIGHT LBS/FT	SETTING DEPTH	TYPE CEMENT	SACKS	TYPE AND % ADDITIVES
	<u> </u>		20 ft.	Portland	8	
5-7/8"	2-7/8"	٠	1,271 ft.			
1			Well Log	V:		KCC AY 1 4 2010 ONFIDENTIAL
	Layne End 1900 Shar Mission W 1A-3 Zook 168 Kurtis End 2/2/2010 2/10/2010 SIZE OF HOLE 8-3/4" 5-7/8"	1900 Shawnee Miss  Mission Woods, KS  1A-3 Zook  165 ft. from  Kurtis Energy  2/2/2010  2/10/2010  SIZE OF SIZE OF HOLE CASING  8-3/4" 7"  5-7/8" 2-7/8"	Layne Energy Operating, LLC  1900 Shawnee Mission Parkway Mission Woods, KS 66205-2001  1A-3 Zook  165 ft. from N line  Kurtis Energy  2/2/2010  2/10/2010  SIZE OF SIZE OF WEIGHT HOLE CASING LBS/FT  8-3/4" 7"  5-7/8" 2-7/8"	Layne Energy Operating, LLC  1900 Shawnee Mission Parkway Mission Woods, KS 66205-2001  1A-3 Zook  165 ft. from N line  Kurtis Energy  GEOLOGI  2/2/2010  TOTAL DEP  2/10/2010  OIL PURCHAS  Casing Reco  SIZE OF SIZE OF WEIGHT SETTING HOLE CASING LBS/FT DEPTH  8-3/4" 7" 20 ft. 5-7/8" 2-7/8" 1,271 ft.  Well Log	Layne Energy Operating, LLC  1900 Shawnee Mission Parkway Mission Woods, KS 66205-2001  1A-3 Zook  165 ft. from N line  165 ft. from N line  Kurtis Energy  GEOLOGIST: Roland N  2/2/2010  TOTAL DEPTH: 1,275 ft.  2/10/2010  OIL PURCHASER:  Casing Record  SIZE OF SIZE OF WEIGHT SETTING TYPE CEMENT HOLE CASING LBS/FT DEPTH  8-3/4" 7" 20 ft. Portland 5-7/8" 2-7/8" 1,271 ft.  Well Log	Layne Energy Operating, LLC  1900 Shawnee Mission Parkway Mission Woods, KS 66205-2001  1A-3 Zook  165 ft. from N line  Kurtis Energy  GEOLOGIST:  Z/2/2010  TOTAL DEPTH:  1,275 ft.  Casing Record  SIZE OF SIZE OF WEIGHT HOLE CASING LBS/FT DEPTH  FROM BETTING DEPTH  CASING LBS/FT DEPTH  1,271 ft.  Well Log  RAN:  Montgomery  Cook  LEASE NAME: Zook  LIEASE NAME: Zook  Cook  LEASE NAME: Zook  Cook  LIEASE NAME: Zook  Cook  LIEASE NAME: Zook  Cook  LIEASE NAME: Zook  LIEASE NAME: Zook  ELINE  Casing Record  SIZE OF WEIGHT CEMENT SACKS  B-3/4" 7" 20 ft. Portland 8  1 2-7/8" 1,271 ft.  Well Log  RAN:

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       531       539         Shale       539       560         Sandy Shale       589       614         Shale       614       620         Lime       620       653         Shale       671       673         Shale       681       683         Shale       683       710         Lime       710       728         Sandy Shale       728       750         Shale       1058       1064         Lime       1064       1079	FORMATION	TOP	BOTTO	<u>M</u>
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       653       671         Lime       673       681         Lime       681       683         Shale       683       710         Lime       710       728         Sandy Shale       728       750         Shale       1058       1064         Lime       1064       1079	Topsoil		0	3
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         531         539           Shale         531         539           Lime         539         560           Sandy Shale         589         614           Shale         614         620           Lime         620         653           Shale         671         673           Shale         681         683           Lime         681         683           Shale         683         710           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079	Clay		3	14
Shale         20         26           Lime         26         34           Shale         34         38           Lime         38         75           Shale         75         168           Sand         168         185           Sand Shale         185         296           Sand         296         415           Lime         415         420           Sand         420         440           Lime         531         539           Shale         531         539           Lime         539         560           Sandy Shale         560         589           Lime         589         614           Shale         614         620           Lime         620         653           Shale         671         673           Shale         681         683           Shale         683         710           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079	Lime		14	
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       531       539         Shale       531       539         Lime       539       560         Sandy Shale       560       589         Lime       589       614         Shale       614       620         Lime       620       653         Shale       671       673         Shale       681       683         Shale       683       710         Lime       710       728         Sandy Shale       728       750         Shale       1058       1064         Lime       1064       1079			20	
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       681       683         Shale       683       710         Lime       710       728         Sandy Shale       728       750         Shale       1058       1064         Lime       1064       1079		· · · · · · · · · · · · · · · · · · ·		
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         681         683           Shale         683         710           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079			34	38
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         589         614           Shale         614         620           Lime         620         653           Shale         653         671           Lime         671         673           Shale         681         683           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079			38	75
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         589         614           Shale         614         620           Lime         620         653           Shale         653         671           Lime         671         673           Shale         681         683           Lime         683         710           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079			75	
Sandy Shale         185         296           Sand         296         415           Lime         415         420           Sand         420         440           Lime         440         531           Shale         531         539           Lime         539         560           Sandy Shale         589         614           Shale         614         620           Lime         620         653           Shale         653         671           Lime         671         673           Shale         681         683           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079			168	
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       681       683         Lime       681       683         Shale       683       710         Lime       710       728         Sandy Shale       728       750         Shale       1058       1064         Lime       1064       1079			. 185	
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       681       683         Lime       681       683         Shale       683       710         Lime       710       728         Sandy Shale       728       750         Shale       1058       1064         Lime       1064       1079			296	
Sand       420       440         Lime       440       531         Shale       531       539         Lime       539       560         Sandy Shale       589       614         Lime       614       620         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			415	
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         681         683           Lime         681         683           Shale         683         710           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079			420	
Lime       539       560         Sandy Shale       560       589         Lime       589       614         Shale       614       620         Lime       620       653         Shale       653       671         Lime       671       673         Shale       681       683         Lime       681       683         Shale       683       710         Lime       710       728         Sandy Shale       728       750         Shale       1058       1064         Lime       1064       1079			440	
Sandy Shale       560       589         Lime       589       614         Shale       614       620         Lime       620       653         Shale       653       671         Lime       671       673         Shale       681       683         Lime       681       683         Shale       683       710         Lime       710       728         Sandy Shale       728       750         Shale       1058       1064         Lime       1064       1079			531	539
Lime       589       614         Shale       614       620         Lime       620       653         Shale       653       671         Lime       671       673         Shale       681       683         Lime       681       683         Shale       683       710         Lime       710       728         Sandy Shale       728       750         Shale       1058       1064         Lime       1064       1079			539	560
Shale         614         620           Lime         620         653           Shale         653         671           Lime         671         673           Shale         681         683           Lime         681         683           Shale         683         710           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079			560	589
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			589	614
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			614	620
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			620	653
Shale         673         681           Lime         681         683           Shale         683         710           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079			653	671
Lime         681         683           Shale         683         710           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079			671	673
Shale         683         710           Lime         710         728           Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079	the state of the s		673	681
Lime     710     728       Sandy Shale     728     750       Shale     1058     1064       Lime     1064     1079			681	683
Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079			683	710
Sandy Shale         728         750           Shale         1058         1064           Lime         1064         1079				728
Shale         1058         1064           Lime         1064         1079			728	750
10/9			1058	
			1064	1079
1 .0.01	Sandy Shale		1079	1103

FORMATION TO	P BOTT	<u>ÓM</u>
Lime	750	751
Shale	751	
Lime	755	
Shale	765	
Lime	767	
Sand	777	786
Sandy Shale	786	884
Lime	884	917
Shale	917	921
Sandy Shale	9-Jul	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 T.D.

RECEIVED
MAY 1.7 2010
KCC WICHITA

### **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 Lease Number** 

**Property Code API Number** 

G01020800200

G010208 KSSY31S14E0301 15-125-31918

CygnetID

**Spud Date RDMO Date First Compl First Prod** 2/2/2010 2/11/2010 3/8/2010 3/14/2010

**Tbg Size PBTD** Sf Csg Depth Pr Csg Depth Csg Size

1272 1267 1267 0. 21 Reported By KRD **Rig Number** 

**Date** 2/2/2010

**EFM Install** 

Taken By **Down Time** 

Present Operation Contractor **KURTIS ENERGY** SET SURFACE

#### **Narrative**

TD

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

> **KCC** MAY 1 4 2010 CONFIDENTIAL

RECEIVED MAY 1 7 2010 KCC WICHITA





TICKET NUMBER 23971
LOCATION EUREKA
FOREMAN KEVIN M°COV

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

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WEL	L NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
2-11-10	4758	Z00K 1	A-3			¥		MG
CUSTOMER			-				4	19 (8)
LAYN	e ENERGY				TRUCK#	DRIVER	TRUCK#	LDRIVER
MAILING ADDR					445	Justin	5. A A A A	1 4 2010
	30x 160				543	DAVE	MAI	1 7 2010
CITY		STATE	ZIP CODE	]			CON	FIDENTIA
Sycam	ore	Ks						
	ngstring_	HOLE SIZE	57/8"	_ _ HOLE DEPTH	1272'	CASING SIZE & V	VEIGHT	
CASING DEPTH	·	DRILL PIPE		_TUBING_27	8 Set @ 12	67'	OTHER	
SLURRY WEIGI	нт <i>_13.2</i> #	SLURRY VOL	42 BBL	WATER gal/si	k <u> 9. °</u>	CEMENT LEFT in	CASING O'	
DISPLACEMEN	17,5 BSC	DISPLACEMEN	IT PSI	MIX PSI	• <u> </u>	RATE		
REMARKS:	rety Meeti	No: Rigu	p to 278	Tubing. I	REAK CIRCO	ulatron w/	5 Bbl FRE	sh water.
Pump 8 s	ks Gel flu	sh 5 abc	WATER Spi	9cee 5 Bb	CAUSTIC S	TodA ARE FILL	h 10 BbL a	voter
						w/5 # KOL -		
						+ down. was		
DROP 2-2	7/8 Rubber 1	Olugs. Disp	lace w/ 7	S BLL FRE	sh water @	I BPM. Fin	IAL PUMPING	Pressure
						Good Cement		
= 7866.	Slurry to 1	0,+ =(225	ks). Job	Complete	. Rig down	•		
	7		<del>7</del>	•				

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1 .	PUMP CHARGE	900.00	900.00
5406	40	MILEAGE	3.55	142.00
1126 A	135 sks	THICK SET CEMENT	16.50	2227.50
1110 A	675 #	KOL-SEAL 5"/SK	. 40	270.00
1107 A	17 *	Pheno Seal 1/8 1/5k	1.12 *	19.04
1135	50 4	CFL-110 1/2 1/2 RECEIVED	7.26 *	363.00
1146	25 4	CAF - 38 1/4 %	7.50 4	/87.5°0
	·	MAY 1 7 2010		
1118 A	400 *	Gel Flush VOC MUCHTA	.17 =	68.00
//03	50 <b>T</b>	CAUSTIC Soda KCC WICHITA	1.40 *	70.00
5407 A	7.43 Tons	40 miks BUCK TRUCK	1.20	356.64
4402	2	2% Top Rubber Plugs	23.00	46.00
			Sub TotAL	4649.68
		THANK YOU 5.3%	SALES TAX	172.31
vin 3737		-m / 23291D	ESTIMATED TOTAL	4821.99

AUTHORIZTION WHNESSED BY JACOB

TITLE LAYNE Co. Rep.

ATE 2-11-10