

# KANSAS CORPORATION COMMISSION RIGINAL OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33365	API No. 1522521-00-00
Name: Layne Energy Operating, LLC	County: Elk
Address: 1900 Shawnee Mission Parkway	W2 _ NW_ NE Sec. 22 Twp. 31 S. R. 12
City/State/Zin: Mission Woods, KS 66205	633 feet from S / (N) (circle one) Line of Section
Purchaser: CONFIDENTIAL	2236 feet from (E) W (circle one) Line of Section
Operator Contact Person: Timothy H. Wright EC 1 9 2008	Footages Calculated from Nearest Outside Section Corner:
Phone: (913) 748-3960	(circle one) NE SE NW SW
Contractor: Name: Thornton Drilling	Lease Name: KCE Well #: 2-22
License: 33606	Field Name: Cherokee Basin Coal Area
Wellsite Geologist:	Producing Formation: Cherokee Coals
Designate Type of Completion:	Elevation: Ground: 1062' Kelly Bushing:
New Well Re-Entry Workover	Total Depth: 1813' Plug Back Total Depth: 1808'
OilSWDSIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 42 Feet
✓ Gas ENHR ✓ SIGW	Multiple Stage Cementing Collar Used? Yes 🗸 No
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
	If Alternate II completion, cement circulated from 1808
If Workover/Re-entry: Old Well Info as follows:  Operator:	feet depth to Surface w/ 100 sx cmt.
Well Name:	
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan AHT AUT 3309
	(Data must be collected from the neserve Fit)
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.	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	Operator Name:
Other (SWD or Enhr.?) Docket No.	Lease Name: License No.:
9/26/2008 9/30/2008 10/30/2008	Quarter Sec Twp S. R East West
Spud Date or Pate Reached TD Completion Date or 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	h the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, ver 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-s 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 regulaterin are complete and correct to the best of my knowledge.	late the oil and gas industry have been fully complied with and the statements
1	L. KOO OKIGA HAA ONIV
Signature	KCC Office Use ONLY
Title: Project Engineer Date: 12/18/	Letter of Confidentiality Attached
Subscribed and sworn to before me this 18 day of Decerve	If Denied, Yes Date:RECEIVED
20 08	Wireline Log Received KANSAS CORPORATION COMMISS
Mar Your Od A War Name	Geologist Report Received
Notary Public: //www.public. //www.public.	MACLALIGHILIN DARLING
Date Commission Expires: 1-4-2009	Notary Public - State of Kansas CONSERVATION DIVISION WY Appt. Expires /- 4-2009

Operator Name: Lay	ne Energy Opera	iting, LL0		Lease	Name: K	CE		Well #: _2-2	2
Sec. 22 Twp. 3	1S. R. <u>12</u>	✓ East	West	Count	y: Elk				
NSTRUCTIONS: Shested, time tool oper emperature, fluid rec Electric Wireline Logs	n and closed, flowing covery, and flow rate	g and shut s if gas to	-in pressures, s surface test, a	whether s long with	hut-in pre	ssure reache	d static level, hydr	ostatic pressu	
Drill Stem Tests Take		Y	es 🗸 No		<b></b> ✓Lo	og Forma	ation (Top), Depth	and Datum	Sample
Samples Sent to Geo	•	✓ Y	es No		Name	е		Тор	Datum
Cores Taken	Nogroui Guivoy	 			Pawi	nee Lime		1316 GL	-254
Electric Log Run (Submit Copy)		<b>√</b>			i	llo Shale		1417 GL	-355
ist All E. Logs Run:					V-Sh	ale		1485 GL	-423
Compensated De Dual Induction	ensity Neutron				Miss	issippian		1742 GL	-680
		Repo	CASING	RECORD	✓ Ne surface, inte	*	uction, etc.		
Purpose of String	Size Hole Drilled	Siz	re Casing t (In O.D.)	We	eight . / Ft.	Setting Depth	Type of Cement	# Sacjs Used	Type and Percent Additives
Surface	11"	8.625"		24		42'	Class A	8	Type 1 cement
Casing	6.75"	4.5"		10.5		1808'	Thick Set	100	50/50 posmix w/2% gel
		<u> </u>	ADDITIONAL	. CEMENT	ING / SQL	JEEZE RECOI	RD		
Purpose:  —— Perforate  —— Protect Casing  —— Plug Back TD  —— Plug Off Zone	Depth Top Bottom	Туре	of Cement	#Sack	s Used		Type and	Percent Additive	98
Shots Per Foot			RD - Bridge Pluç Each Interval Per		е		racture, Shot, Ceme (Amount and Kind of N		ord Depth
	See Attached P	age		·					
									CEIVED ORATION COMMISSION
								DEC	2 2 2008
TUBING RECORD 2-	Size 3/8"	Set At 1542'		Packer	At	Liner Run	☐ Yes 🗸 N		VATION DIVISION CHITA, KS
Date of First, Resumer	rd Production, SWD or	Enhr.	Producing Me	thod	Flowin	g Pun	nping 🔲 Gas L	.ift Ot	her (Explain)
Estimated Production Per 24 Hours	Oil 0	Bbls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
Disposition of Gas	METHOD OF	COMPLETI	ON			Production In	iterval	CONFID	ENTIAL
Vented Sold	Used on Lease ubmit ACO-18.)		Open Hole Other (Spec	☑ Pe	orf. 🔲 l	Dually Comp.	✓ Commingled	G	2003

Layne Energy Operating, LLC.		
KCE 2-22		
Sec. 22 Twp. 31S Rng. 12E, Elk County		
15-049-22521-00-00		
Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
Initial Perf	orations (October 2008)	
Croweburg 1485.5' - 1488' Bevier 1470' - 1472'	6000 lbs 20/40 sand 406 bbls water 400 gals 15% HCl acid	1470' - 1488'
Mulky 1418.5' - 1422' Summit 1403.5' - 1405'	10000 lbs 20/40 sand 725 bbls water 400 gals 15% HCl acid	1403.5' - 1422'
	KCE 2-22 Sec. 22 Twp. 31S Rng. 12E, Elk County 15-049-22521-00-00  Perforation Record Initial Perf Croweburg 1485.5' - 1488' Bevier 1470' - 1472'  Mulky 1418.5' - 1422'	Sec. 22 Twp. 31S Rng. 12E, Elk County

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CONFIDENTIAL DEC 19 2008

KCC

DEC 2 2 2008

CONSERVATION DIVISION WICHITA, KS

### **GEOLOGIC REPORT**

LAYNE ENERGY
KCE 2-22
W2 NW NE, 633 FNL, 2236 FEL
Section 22-T31S-R12E
ELK County, KS

Spud Date:	9/26/2008
Drilling Completed:	9/30/2008
Logged:	10/1/2008
A.P.I. #:	15049225210000
Ground Elevation:	1062'
Depth Driller:	1813'
Depth Logger:	1757'
Surface Casing:	8.625 inches at 42'
Production Casing:	4.5 inches at 1808'
Cemented Job:	Consolidated
Open Hole Logs:	Dual Induction SFL/GR, Litho Density /
	Neutron Logs

Formation	Tops				
	(below ground) Surface (Oread	(subsea)			
Shawnee Group	Limestone)	1,062			
Pawnee Limestone	1,316	-254			
Excello Shale	1,417	-355			
"V" Shale	1,485	-423			
Mineral Coal Mississippian	1,742	-680			

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## **Daily Well Work Report**

KCE 2-22 9/30/2008

Well Location:

ELK KS

31S-12E-22 W2 NW NE 633FNL / 2236FEL Cost C

Cost Center Lease Number G01067100100 G010671

Property Code API Number KSEC31S12E2202 15-049-22521

9/26/2008

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnetID
9/26/2008	9/30/2008	10/30/2008		11/6/2008	KCE_2_22

TD PBTD Sf Csg Depth Pr Csg Depth Tbg Size Csg Size 1813 1808 42 1808 0 0

Reported By KRD Rig Number Date

Taken By KRD Down Time

Present Operation DRILL OUT SURFACE Contractor THORNTON ROTARY

#### **Narrative**

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 42' DEEP, RIH W/2 JT 8 5/8" SURFACE CASING, MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN. DWC:\$3160

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CONSERVATION DIVISION WICHITA, KS

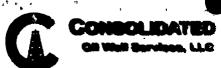
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19476 TICKET NUMBER LOCATION EUREKA FOREMAN KEVIN MCCOY

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

## FIELD TICKET & TREATMENT REPORT **CEMENT**

		_		OFME	• •			
DATE	CUSTOMER#	WEI	L NAME & NUN	MBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-1-08	4758	KCE	2-22		22	3/5	126	ELK
CUSTOMER						AN THE SAME OF THE		
LAY	WE ENERGY	,		_ Gus	TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDR	ESS			Jones	445	Justin		1
P.o. 1	Box 160			Rig 1	441	DAVE		
CITY		STATE	ZIP CODE	7 '	515	JERAID		
Sycamo	æ	Ks						
JOB TYPE LOA	Igstring	HOLE SIZE	53/4	HOLE DEPT	H /8/3 '	CASING SIZE & V	WEIGHT 44	10.5 Mew
CASING DEPTH		DRILL PIPE		TUBING			OTHER	
SLURRY WEIGH	нт <i>.13.9- 13.</i> 2	SLURRY VOL	69 BLL	WATER gal/s	sk <u> 6. ′ - 8. °</u>	CEMENT LEFT in	CASING 0	
DISPLACEMEN	T 29 866	DISPLACEME	NT PSI /000	100K PSI /4/4	oo Bump Plug	RATE DISPLACE	meut Rate 3	2-2 BPM
REMARKS:	Fety Meetin	m: Rigua	力 4% (	Asing w/	wash Head.	BROAK CIRC	culation a	1 30 BGL
FRESH WA	ter. wash o	low~ 70'	41/2 W/ AC	dditional	60 BGL FRes	h water. Pu	mp 10 SKS	Gel flust
						15h 10 BbL		
						ment w/ 2%		
						@ 13.9 #/9AL		
						CAF-38 @		
						w/ 29 BbL		
						Alt 2 MINUT		
						ery (36 sks)		
	olete. Rig de							
ACCOUNT			_					

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	925.00	925.00
5406	40	MILEAGE RECEIVED	3.65	146.00
1124	100 SKS	50/50 POZMIX CEMENT KANSAS CORPORATION COMMISS	9.75	975.00
1102	170 *	CACLE 2%.	. 75	127.50
1118 A	170 *	Gel 2%. DEC 2 2 2008	.17	28.90
1110 A	400	KOL-SEAL 4 # /SK	. 42	168.00
1101	300 ×	CAL-SEAL 3 "/SK CONSLITA, KS	. 36	108.00
1107 A	<i>28</i> *	Pheno Seal 18 1st (IN ALL OF Cement)	1.15	32.20
1135	100	CFL-110 1/2% (IN ALL OF CEMENT)	7.50	750.00
1146	50 "	CAF-38 14% (IN ALL OF CAMENT)	7.70	385.00
1126 A	125 Sks	THICK SET CEMENT	17.00	2185.0
1110 A	1000 *	KOL-SEAL 8 */SK CONFIDENTIAL	. 42	420.00
1118 A	500 #	Gel Flush	.17 *	85.00
1105	5°0 *	Hulls UEL 1 3 4000	. 39	19.50
5407	11.07 Tows	Tow Mileage Bulk TRucks	M/C x 2	630.00
4404	1	41/2 Top Rubber Plug	45.00	45.00
5605 A	4 HRS	Weider	85.00	340.00
4311	/	Weld ON CollAR 41/2	70.00	70.00
		6.3%	SALES TAX	<i>336.</i> 38
vin 3737		THANK YOU 206305	ESTREATED TOTAL	7,716.4

AUTHORIZTION Witnessed By JACOB

TITLE LAYNE Co. Rep.

ESTIMATED TOTAL

DATE