## RECEIVED KANSAS CORPORATION COMMISSION

ORIGINAL

Kansas Corporation Commission Oil & Gas Conservation Division

FEB 2 7 2007

Form ACO-1 September 1999

Form Must Be Typed

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

CONSERVATION DIVISION

A S.E. WICHITA, KS

Operator: License # 33365	API No. 15 - 019-26762 - 00 - 00
Name: Layne Energy Operating, LLC	County: Chautauqua
Address: 1900 Shawnee Mission Parkway	NE _ SW_ NW Sec. 4 _ Twp. 32 _ S. R. 13 _ \( \bar{\cup} \) East \( \bar{\cup} \) West
City/State/Zip: Mission Woods, KS 66205	1904 feet from S / N (circle one) Line of Section
Purchaser:	806 feet from E / (circle one) Line of Section
Operator Contact Person: M. B. Nattrass	Footages Calculated from Nearest Outside Section Corner:
Phone: (913) 748-3960 KCC	(circle one) NE SE NW SW
Contractor: Name: Thornton Air Rotary FEB 2 6 2007	Lease Name: Vaughn Well #: 5-4
33606	Field Name: Cherokee Basin Coal Area
Wellsite Geologist: CONFIDENTIAL	Producing Formation: Cherokee Coals
Designate Type of Completion:	Elevation: Ground: 929 Kelly Bushing:
New Well Re-Entry Workover	Total Depth: 1650 Plug Back Total Depth: 1645
OilSWDSIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 45 Feet
✓ GasENHR ✓ SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 1645
Operator:	feet depth to Surface w/ 165 sx cmt.
Well Name:	
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan AI+ II NH9-25 O
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:
	Lease Name: License No.:
10/30/2006         10/31/2006         11/30/2006           Spud Date or         Date Reached TD         Completion Date or	Quarter Sec Twp S. R
Recompletion Date Recompletion Date	County: Docket No.:
•	
Kansas 67202, within 120 days of the spud date, recompletion, workov Information of side two of this form will be held confidential for a period of	th 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 regulate herein are complete and correct to the best of my knowledge.	late the oil and gas industry have been fully complied with and the statements
Signature: 1	KCC Office Use ONLY
Title: Agent Date: 2/23/07	Letter of Confidentiality Attached
Subscribed and sworn to before me this 23 day of February	If Denied, Yes Date:
2007	Wireline Log Received
THAT ( WMM) IN	Geologist Report Received
Notary Public: 1	UIC Distribution
Date Commission Expires: 12 28 09	

#### RECEIVED KANSAS CORPORATION COMMISSION

FEB 27 2007

**CONSERVATION DIVISION** WICHITA, KS

Operator Name: Layne Energy Operating, LLC.

Lease Name:

Vaughn 5-4

Sec. 4 Twp. 32S Rng. 135E, Chautauqua County

API:

4

15-019-26762

Shots per Foot Perforation Record

1286-1290.5, 1267.5-1269

1228.5-1233.5, 1212-1215.5

Acid, Fracture, Shot, Cement Squeeze Record

Depth

Croweburg, Bevier - 5000# 20/40 sand, 530 bbls wtr, 1267.5-1290.5

600 gal 15% HCl acid

Mulky, Summit - 6300# 20/40 sand, 525 bbls wtr, 850 1212-1233.5

gal 15% HCl acid

KCC FEB 2 6 ^^^? CONFIDENTIAL

perator Name: Lay	ne Energy Oper	ating, LLC	Lease	Name: Vau	ughn		Well #: _5-4	ļ	
		✓ East		y: Chautau					
sted, time tool ope mperature, fluid red	n and closed, flowin covery, and flow rate	and base of formations g and shut-in pressures es if gas to surface test, final geological well site	s, whether sl along with f	hut-in pressu	ire reached s	tatic level, hydr	ostatic pressu	res, botto	m hole
rill Stem Tests Take	• •	☐ Yes 📝 No		<b>✓</b> Log	Formatio	n (Top), Depth	and Datum		Sample
amples Sent to Ge	·	☐ Yes 🗸 No		Name			Тор	Datum	
ores Taken	oragram carro,	Yes No		Pawne	Pawnee Lime		1114 GL	-	185
ectric Log Run (Submit Copy)		✓ Yes No		Excello	Excello Shale		1228 GL	-299	
st All E. Logs Run:		vcC.		V Shale	V Shale		1286 GL	-357	
Compensated D Dual Induction	ensity Neutron	KCC FEB 2 6 200 CONFIDENT	TAL	Mississ	ippian		1554 GL	-	625
		CASIN			Used	on, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Wei	ight	Setting Depth	Type of Cement	# Sacjs Used		and Percent
Surface	11	8.65	24	4:	······································	Class A	8	Type 1 cement	
Casing	6.75	4.5	10.5	16	645'	Thick Set	165		
		ADDITIONA	N CEMENTI	NG / SOLIEE	ZE RECORD	******			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks		ZE RECORD	Type and	Percent Additive	es	
Shots Per Foot		ION RECORD - Bridge PI			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			Depth	
Specify Footage of Each Interval Perforated  See Attached									CEIVED
									2 7 2007
							с	ONSERV/ WIC	ITION DIVISION HITA, KS
TUBING RECORD	Size	Set At	Packer A	<u> </u>	iner Run				
	3/8"	1321'	racker A	- L		Yes 🗸 No	>		
Date of First, Resumer SI - waiting on	d Production, SWD or pipeline	Enhr. Producing M		Flowing	Pumpin	g Gas L	ift 🔲 Ott	ner <i>(Explain</i>	,
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf	Water	Bb	ols.	Gas-Oil Ratio		Gravity
Disposition of Gas	METHOD OF	COMPLETION	<u> </u>	P	roduction Interv	ral			
Vented Sold	Used on Lease	Open Hol	ld	f. Dual	ly Comp.	Commingled _			

# RECEIVED KANSAS CORPORATION COMMISSION

FEB 27 2007

### **Daily Well Work Report**

VAUGHN 5-4 10/31/2006 CONSERVATION DIVISION WICHITA, KS

Well Location: CHAUTAUQUA KS 32S-13E-4 NE SW NW 1904FNL / 806FWL Cost Center Lease Number Property Code API Number

G010504 KSSY32S13E0504 15-019-26762

G01050400100

Spud Da	ate I	RDMO Date F	irst Compl	irst Prod	EFM Install	CygnetID
10/30/20	006	10/31/2006	11/30/2006		12/18/2006	VAUGHN_5_4
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size	
1650	1645	45	1645	0	0	
Reported E	By KRD	Rig	Number	D	ate	10/30/2006
Taken By	KRD			D	own Time	
Present Op	peration	DRILL OUT FRO	M UNDER SURFAC	E <b>C</b>	ontractor	THORNTON ROTARY

#### **Narrative**

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 45' DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING. MIXED 8 SKS TYPE 1 CEMENT. DUMPED DOWN THE BACKSIDE. SDFN.



### RECEIVED

CONSOLIDATED OIL WELL SERVICES, INC. KANSAS CORPORATION COMMISSION P.O. BOX 884, CHANUTE, KS 66720

AUTHORIZATION CALLED BY John Ed

620-431-9210 OR 800-467-8676

FEB 27 2007

16505 TICKET NUMBER

LOCATION EUREKA

FOREMAN KEVIN MCCOY

DATE\_

# TREATMENT REMAINING THELD TICKET CEMENT

	CUSTOMER #	WELL NAME & NUMBER		IBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-1-06	4758	VAUGE	5~ 5-4					ELK
CUSTOMER		/			7. (2) : (2) <del>                                     </del>			
LAYNE ENERGY			] ~ [	TRUCK #	DRIVER	TRUCK #	ORIVER	
MAILING ADDRESS P.O. Box 160		Gus Jones	445	Justin	T	100		
			4/39	Jerrid	FEB	2 6 2007		
CITY		STATE	ZIP CODE	R191			COME	DENTIAL
Sycamor	Re	Ks					CUNT	IDENIIAL
JOB TYPE LON	gstring	HOLE SIZE	63/4	_ HOLE DEPTH_		CASING SIZE & WI	EIGHT 41/2	10.5 New
CASING DEPTH_		DRILL PIPE		TUBING			OTHER	
SLURRY WEIGHT	13.2 #	SLURRY VOL	51 BLL	WATER gal/sk	8.°	CEMENT LEFT in C	ASING O'	
DISPLACEMENT			NT PSI /000	MM PSI_/500	Bump Plug	RATE		
REMARKS:	Fety Me	eting:	Rigup t	5 4/2 CA	sing. BR	EAK CIRCUL	Ation W	1 30 BbL
FRESH W	Atee. Pu	mp 6 St	cs 6ec +	Jush 5 6	36L WAter	SPACER 10	BLL Me	FASILICATE
PRE Flus	h 16 BbL	Dye wat	e. Mixe	2 165 SKS	THICK	set Cament	w/ 10 #	KOL-SEAL
						op & Lines		
						AL Rumping		
Bump P.	/vg to 15	00 PSI.	WAIT 2	minutes	. Release	PRESSURE. 7	TOAT HE	d.
						SURFACE =		
<b>a</b> .	nplete. R.							
	•							

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401		PUMP CHARGE	800.00	800.00
5406	40	MILEAGE	3.15	126.00
1126 A	165 SKS	THICK Set Cement	14.65	2417.25
1110 A	1650 #	THICK Set Cement  KOL-SEAL 10 # PER/SK	. 36 *	594.00
1118 A	300 #	Gel flush	.14 #	42.00
1111 A	50 ×	Metasicicate PRE Flush	1.65 M	82.50
5407 A	9.07 Tous	40 miles BULK TRUCK	1.05	380.94
4404	/	41/2 Top Rubber Plug	40.00	40.00
			Sub Total	4482.69
		210331	SALES TAX ESTIMATED TOTAL	200.08 4682.77

TITLE\_

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FEB 2 7 2007

#### GEOLOGIC REPORT

CONSERVATION DIVISION WICHITA, KS

LAYNE ENERGY
Vaughn 5-4
SW NW, 1904 FNL, 806 FWL
Section 4-T32S-R13E
Chautauqua County, KS

Spud Date:	10/30/2006	
Drilling Completed:	10/31/2006	KCC
Logged:	10/31/2006	
A.P.I. #:	1501926762	FEB 2 6 7007
Ground Elevation:	929'	CONFIDENTIAL

Depth Driller: 1650'
Depth Logger: 1649'

Surface Casing: 8.625 inches at 45'
Production Casing: 4.5 inches at 1645'

Cemented Job: Consolidated

Open Hole Logs: Dual Induction SFL/GR, High Resolution

Compensated Density/Neutron

#### Formation Tops (in feet below ground level)

Douglas Group Surface (Stranger Formation)
Pawnee Limestone 1114
Excello Shale 1,228
"V" Shale 1,286
Mississippian 1,554

Layne Energy, Inc.

1900 Shawnee Mission Parkway, Mission Woods, Kansas 66205 Phone: (913) 748-3987 Fax: (913) 748-3970

February 26, 2007

RECEIVED KANSAS CORPORATION COMMISSION FEB 2.7 2007

CONSERVATION DIVISION WICHITA, KS

Kansas Corporation Commission Oil & Gas Conservation Division 130 S. Market, Room 2078 Wichita, KS 67202

KCC FEB 2 6 2007 CONFIDENTIAL

Re: Well Completion Form

To Whom It May Concern:

I have enclosed the ACO-1 form and associated data for the following wells:

API # 15-019-26762 Vaughn 5-4

We respectfully request that all information submitted be kept confidential and per provision E-4 of K.A. R. 82-3-107, we request that the term of the confidentiality be extended by one year.

If you need additional information or have any questions or comments, please contact me at (913) 748-3960.

Best regards,

**Enclosures** 

Cc Well File Field Office

