**RECEIVED** KANSAS CORPORATION COMMISSION

Kansas Corporation Commission QIL & Gas Conservation Division

AUG 13 2007

Form ACO-1 September 1999 CONSERVATION DIVISION Must Be Typed WICHITA, KS

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

Operator: License #_33365	API No. 15 - 125-31102-00-00
Name: Layne Energy Operating, LLC	County: Montgomery
Address: 1900 Shawnee Mission Parkway	SW_SW_Sec. 2 Twp. 32 S. R. 14 7 East West
City/State/Zip: Mission Woods, KS 66205	660 feet from S/ N (circle one) Line of Section
Purchaser:	660 feet from E / (W) (circle one) Line of Section
Operator Contact Person: M. Brent Nattrass	Footages Calculated from Nearest Outside Section Corner:
Phone: (913 ) 748-3960	(circle one) NË SE NW SW
Contractor: Name: McPherson Drilling	Lease Name: Copenhaver Well #: 13-2
License: 5675	Field Name: Cherokee Basin Coal Area
Wellsite Geologist:	Producing Formation: Cherokee Coals
Designate Type of Completion:	Elevation: Ground: 908' Kelly Bushing:
✓ New Well Re-Entry Workover	Total Depth: 1525' Plug Back Total Depth: 1518.7'
Oil SWD SIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 20 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
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 1519
Operator:	feet depth to Surface w/ 155 sx cmt.
Well Name:	Drilling Fluid Management Plan DH 812(108
Original Comp. Date: Original Total Depth:	(Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content N/A ppm Fluid volume bbls
Plug BackPlug Back Total Depth	Dewatering method used N/A - Air Drilled
Commingled Docket No	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	·
Other (SWD or Enhr.?) Docket No.	Operator Name:
8/8/2006 8/11/2006 4/18/2007	Lease Name: License No.:
Spud Date or Date Reached TD Completion Date or Recompletion Date	Quarter Sec Twp S. R East West County: Docket No.:
1	and geologist well report shall be attached with this form. ALL CEMENTING
All requirements of the statutes, rules and regulations promulgated to regula herein are complete and correct to the best of my knowledge.	te the oil and gas industry have been fully complied with and the statements
Signature: MS Atthor	KCC Office Use ONLY
Title: Agent Date: 8 //0/07	Letter of Confidentiality Attached
Subscribed and sworn to before me this 10 day of August	If Denied, Yes Date:
20.07	Wireline Log Received
	Geologist Report Received
/ / / / / / / / / / / / / / / / / / / /	UGHLIN DARLING UIC Distribution Public - State of Kenses
Date Commission Expires: 1942003	Expires 14/2001

13-2 KGC

Operator Name: Layr					openhaver		Well #: _ <del></del>	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Sec2 Twp32	S. R. 14	_ ✓ East ☐ Wes	t Cou	nty: Montgo	omery			CONTRACTOR	
NSTRUCTIONS: Shested, time tool open emperature, fluid received Electric Wireline Logs	and closed, flowir overy, and flow rate	ig and shut-in pressu es if gas to surface te	res, whether st, along wit	shut-in pres	sure reached	static level, hydr	ostatic pressur	es, bottom hole	
Orill Stem Tests Taker (Attach Additional S		☐ Yes 🗸 N	0	√Lo	g Format	ion (Top), Depth	and Datum	Sample	
Samples Sent to Geol		∏Yes 🕅 N	Yes ☑ No				Тор	Datum	
Cores Taken		Yes VN		Pawn	nee Lime		914 GL	-6	
Electric Log Run		✓ Yes □ N	0	Excel	o Shale		1068 GL	-160	
(Submit Copy)				V Sha	ıle		1116 GL	-208	
List All E. Logs Run:		Miner	al Coal		1165 GL	-257			
Compensated Density Neutron  Dual Induction							1443 GL	-535	
Duai induction				IVIISSI	ssippian		1443 GL	-335	
		CAS Report all strings	ING RECORE	_		ction etc			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	V	Weight Setti		Type of Cement	# Sacjs	Type and Perce	
Surface	11"	8.625"	24		Depth 20'	Class A	Used 4	Additives Type 1 cem	
Casing	6.75"	4.5"	10.5		1519'	Thick Set	155		
	<u> </u>	ADDITIO	NAL CEMEN	TING / SQUE	EZE RECOR	D			
Purpose:Perforate	Depth Top Bottom	Type of Cement	#Sac	#Sacks Used Type			and Percent Additives		
Protect Casing Plug Back TD									
Plug Off Zone									
		10 N D C 00 C 0 C 1							
Shots Per Foot		ION RECORD - Bridge Footage of Each Intervention		De	Acid, Fracture, Shot, Cement Squeeze Bacard (Amount and Kind of Material Used) ECEIVED  CAMSAS CORPORATION COMMISSION				
	See Attached P	age							
							AUG 1	3 2007	
						TION DIVISION			
		······					WIGH	IITA <del>, KS</del>	
							***************************************		
TUBING RECORD 2-3/	Size	Set At 1413'	Packe	r At	Liner Run	Yes ✓ No	)	- <del></del>	
Date of First, Resumerd			Method	Flowing	<b>√</b> Pumpi			er ( <i>Explain</i> )	
5/11/2007 Estimated Production	Oil	Bbls. Gas	Mcf	Water			Gas-Oil Ratio	Gravit	
Per 24 Hours	0	< 1		16			***************************************		
Disposition of Gas	METHOD OF								



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## AUG 13 2007

Operator Name:	Layne Energy Operating, LLC	CONSERVATION DIV. WICHITA, KS	
	Copenhaver 13-2	www.ain, No	1
	Sec. 2 Twp. 32S Rng. 14E, Montgomery County		1
API:	15-125-31102-00-00		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
	Initial Po	erforations	
4	Rowe 1386.5' - 1389' Drywood 1301' - 1302'	7200 lbs 20/40 sand 355 bbls water 500 gals 15% HCl acid	1301' - 1389'
4	Scammon 1180.5' - 1182' Mineral 1164.5' - 1166.5' V-Shale 1117' - 1120.5'	7200 lbs 20/40 sand 656 bbls water 700 gals 15% HCl acid	1094.5' - 1182

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

August 10, 2007

RECEIVED KANSAS CORPORATION COMMISSION

AUG 13 2007

CONSERVATION DIVISION WICHITA, KS

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

Re:

Amended Well Completion Forms

Dear Mr. Bond:

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

API # 15-125-31102-00-00 Copenhaver 13-2

We respectfully request that all information submitted be kept confidential. 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, please contact me at (913) 748-3960.

Sincerely,

MacLaughlin Darling
MacLaughlin Darling

Engineering Technician

**Enclosures** 

cc:

Well File Field Office



# WELL COMPLETION OF WELL & LEASE

# Kansas Corporation Commission Oil & Gas Conservation Division

ORIGINAL Form ACO-1
September 1999
Form-Must Be Typed

Operator: License # 33365	API No. 15 - 125-31102_00-00
Name: Layne Energy Operating, LLC	County: Montgomery
Address: 1900 Shawnee Mission Parkway	SW_Sec. 2 Twp. 32 S. R. 14 🗸 East 🗌 West
City/State/Zip: Mission Woods, KS 66205	660 feet from S/ N (circle one) Line of Section
Purchaser:	660 feet from E / (circle one) Line of Section
Operator Contact Person: M. B. Nattrass	Footages Calculated from Nearest Outside Section Corner:
Phone: (913) 748-3987 DEC 0 5 2003	(circle one) NE SE NW SW
Contractor: Name: McPherson Drilling	Lease Name: Copenhaver Well #: 13-2
License: 5675	Field Name: Cherokee Basin Coal Area
Wellsite Geologist:	Producing Formation: Cherokee Coals
Designate Type of Completion:	Elevation: Ground: 908 Kelly Bushing:
New Well Re-Entry Workover	Total Depth: 1525 Plug Back Total Depth: 1518.7
·	Amount of Surface Pipe Set and Cemented at 20 Feet
Oil SWD SIOW Temp. Abd.  ✓ 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 1519  feet depth to Surface w/ 155 sx cmt.
Operator:	feet depth to w/ 155 sx cmt.
Well Name:	Drilling Fluid Management Plan ALT INH 8-21-08
Original Comp. Date: Original Total Depth:	(Data must be collected from the Reserve Pit)
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	•
8/8/2006 8/11/2006	Lease Name: License No.:
Spud Date or Date Reached TD Completion Date or Recompletion Date	Quarter Sec TwpS. R 🗌 East 🗌 West
necompletion Date necompletion 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	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.
•	ate 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: MA William	KCC Office Use ONLY
Agent 12/5/2006	
	Letter of Confidentiality Attached
Subscribed and sworn to before me this 5 day of Documbou	
20 06 1 1 1 1 1 1 1 1 1	Wireline Log Received
Notary Public: NOTE 1	Geologist Report Received RECEIVED UIC Distribution COMMISSION
Date Commission Expires: 12 28 MOTARY PUBLIC - S	State Of Kansas DEC 0 6 2006
BROOKE C. N	AXFIELD 1
ту дри Сер	CONSERVATION DIVISION WICHITA, KS

perator Name: <u>Lay</u>	ne Energy Opera	ating, LLC		Lea	se Name:_	Copenhaver		Well #: 13-	<u> 2 OSC OS :</u>
. 2 Twp. 32 S. R. 14 🗸 East 🗌 West		West	County: Montgomery					CONFIDEN	
sted, time tool oper mperature, fluid rec	now important tops a n and closed, flowing overy, and flow rate s surveyed. Attach f	g and shut-ir s if gas to su	n pressures, urface test, a	whether long with	shut-in pre	ssure reached	static level, hyd	of drill stems te rostatic pressur	ests giving interval
rill Stem Tests Take		Yes	<b>√</b> No		<b>∠</b> r	og Format	ion (Top), Depth	and Datum	Sample
(Attach Additional Sheets)  Samples Sent to Geological Survey  Ores Taken  Yes  No		C71		Nam	е		Тор	Datum	
		∐ Yes			Paw	nee Lime		914 GL	-6
ectric Log Run (Submit Copy)		✓ Yes			Exce	llo Shale		1068 GL	-160
st All E. Logs Run:					V Sh	ale		1116 GL	-208
Compensated Density Neutron			Mineral Coal				1165 GL	-257	
Dual Induction	•				Miss	issippian		1443 GL	-535
		Report a	CASING			w Used	ction, etc.		
Purpose of String	Size Hole Drilled	Size	Casing	W	eight s. / Ft.	Setting Depth	Type of Cement	# Sacjs Used	Type and Percent Additives
Surface	11	8.65	et (In O.D.) Lbs. /		5. / Ft.	20'	Class A	4	Type 1 cement
Casing	6.75	4.5		10.5		1519'	Thick Set	155	
	4		ADDITIONAL	CEMEN	TING / SOI	JEEZE RECORI	<u> </u>		
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom		Cement		ks Used	ALCZE NEGOTI		Percent Additives	\$
Shots Per Foot	PERFORATI Specify	ON RECORD	- Bridge Plug ch Interval Per	s Set/Typ	oe		acture, Shot, Ceme		rd Depth
	SI - Waiting on o								
UBING RECORD	Size	Set At	W. Carlotte	Packe	r At	Liner Run	Yes N	0	
	Production, SWD or E	inhr. F	Producing Met	nod	Flowing	J Pump	ing Gas t	ift 🔲 Oth	er (Explain)
SI - Waiting on	<del>· · · · · · · · · · · · · · · · · · · </del>	Bbls.	Gas	Mcf	Wate	r E	3bls.	Gas-Oil Ratio	Gravity
SI - Waiting on Estimated Production Per 24 Hours	Oil	00.3.							

CONSERVATION DIVISION WICHITA, KS

### **Daily Well Work Report**

COPENHAVER 13-2 8/8/2006

Well Location: MONTGOMERY KS 32S-14E-2 SW SW 660FSL / 660FWL Cost Center Lease Number Property Code API Number

G01013500300 G010135 GLNA-0140 15-125-31102

Spud Date R

RDMO Date First Compl

First Prod EFM Install

CygnetID

1519

8/8/2006

8/11/2006

20

TD PBTD Sf Csg Depth Pr Csg Depth

Tbg Size

Csg Size Pump Seat Depth

1525

1518.7

1519

Reported By

**Rig Number** 

Date

8/8/2006

Taken By

kig Number

Down Time

0, 0, 2000

Present Operation

Contractor

### **Narrative**

MIRU McPherson drilling rig, drilled 11' hole 20' deep. Rih w/1 jts 8-5/8" surface casing. Mixed 4 sxs type 1 cement, dumped dn the backside. SDFN.

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DONSERVATION DIVISION WICHITA, KS

**Cumulative Well Cost** 

\$ 35,912.00

520-431-9210 OR 800-467-8676

, PCN2A72, TOD

KCC CONSOLIDATED OIL WELL SERVICES, INC. P.Q. BOX 884, CHANUTE, KS 66720

10331 TICKET NUMBER\_

DEC 0 5 2006

LOCATION EUREM FOREMAN RICK LEOFORD

# TREATMENT REPORT & FIELD TICKET

				EMENT	SECTION	TOWNSHIP	RANGE	COUNTY
DATE	CUSTOMER #		L NAME & NUMBER	<del></del>	SECTION	100000		MG
8-14-a		COPENH	Auge 13-2	2	and the latest of the latest			
USTOMER ,				<u> </u>	TRUCK #	DRIVER	TRUCK #	DRIVER
		nerby	~ <del>~~</del>	<b>†</b>	445	Keun		
AILING ADDRE				<u> </u>	479	Kyle		
	O. Box	160	ZIP CODE	-  -	477			
ITY		STATE	Zip Cobe	<u> </u> -				
Sycat	mare	KS		L		CASING SIZE & W	EIGHT 4'/0"	11.50
OB TYPE Lang		HOLE SIZE		PLE DEPTH_	1525	CASING SIZE & W	OTHER	
ASING DEPTH	1519	DRILL PIPE		BING	8.0		OTHER	
LURRY WEIGH	T/33 4	SLURRY VOL		ATER gallsk		CEMENT LEFT in	CASING	
SPLACEMENT	24. ANS.	DISPLACEMEN		PSI		RATE		<u> </u>
EMARKS:	SACON C	neeting:	Rig up to	41/2	casing.	Break GIFC		
fresh		Pura	y sks gel-	flush	5 66/ 1	October 1 SK		
			ve Hater		155 1	es Thicksof	+ cement	w/10=
	al Reflex &		2/001 110	< h c ł	oums +	nes Rek	esc plue.	Ousplace
KA-36			in Cont		00015400	200 151.	Brown als	a to
		hesh had	el final	pump.	00046.00	Elast hele	1. Good &	ement
		2 tex	market	KEIE R	PESSOLE		2. R14 D	aun.
retu	rn to sur	face =	9 BWs 5/4	ccy to	pit.	COMPAN		
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			· · ·				1	7674
ACCOUNT	QUANTITY	Y or UNITS	DESC	RIPTION of	BERVICES or PI	RODUCT	UNIT PRICE	TOTAL
CODE			PUMP CHARGE				800.ª	800.00
5401				M/well	£ 2		Ø	
5406	-		MILEAGE Z	/ WEII	<i>o</i> · <i>z</i>			
	ļ				<del></del>		14.65	2270 75
IRLA .	155		Thick set					558 00
INO A	1550	<b>d</b>	Lot-seal	10 d ref.	<u>K</u>		.34	338
	,						1.1.1	0.0.00
11.00	200 \$		Gel-flus	h			.14**	28.00
1118A	50#		Metasilica		-flush		1.65	82.50
LIIIA	30.	-	190190					
			<del> </del>				1,05	358.24
5407 A	8.53		Ton-mileg	ge - Bu	LY TOX		+	
			<u> </u>				114 60	40.00
	)		4 1/2" Top	rubbar	plug		40.00	70.
4404			1		_			1
4404	_				PEA	EIVED	<del> </del>	
4404				K	NEC	EIVED ATION COMMISSION	<b></b>	
4404	di.			к	ANSAS CORPOR	ATION COMMISSION		
4404	d.			K	ANSAS CORPOR	EIVED NATION COMMISSION OF 6 2006		
4404	·i·				DEC	ACTION COMMISSION		
<u> </u>	i		"Thank You		DEC CONSERVA	ATION COMMISSION		4/37.5
<u> </u>	i		"Thenk You		DEC CONSERVA	ATION COMMISSION 3-6-2006 TION DIVISION MITA, KS	Scholal	
<u> </u>			"Theat You		DEC CONSERVA	ATION COMMISSION  3 6 2006 TION DIVISION	SALES TAX	157.90
<u> </u>	i		"Thank You		DEC CONSERVA	ATION COMMISSION 3-6-2006 TION DIVISION MITA, KS	SALES TAX	

### **GEOLOGIC REPORT**

LAYNE ENERGY
Copenhaver 13-2
SW SW, 660 FSL, 660 FWL
Section 2-T32S-R14E
Montgomery County, KS

Spud Date: 8/8/2006

Drilling Completed: 8/11/2006

Logged: 8/11/2006 A.P.I. #: 1512531102

Ground Elevation: 908'
Depth Driller: 1525'
Depth Logger: 1529'

Surface Casing: 8.625 inches at 20'
Production Casing: 4.5 inches at 1518.7'

Cemented Job: Consolidated

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

Compensated Density/Neutron

DEC 0 5 2003

CONFIDENTIAL

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

South Bend Limestone Memt Surface (Lansing Group)

Pawnee Limestone 914
Excello Shale 1,068
"V" Shale 1,116
Mineral Coal 1,165
Mississippian 1,443

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CONSERVATION DIVISION WICHITA, KS

Layne Energy, Inc.

1205-08

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

December 5, 2006

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



Re: Well Completion Form

To Whom It May Concern:

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

API # 15-125-31102 Copenhaver 13-2

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) 748-3987.

Best regards,

Brooke C. Maxfield

Enclosures

Cc Well File

Field Office

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CONSERVATION DIVISION WICHITAL KS

