CONFIDENTIAL

KANSAS CORPORATION COMMISSION PRIGINAL OIL & GAS CONSERVATION DIVISION

Form ACO-1 September 1999 Form Must Be Typed

AMENDED

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33365	API No. 15 - 205-26797 - 00-00
Name: Layne Energy Operating, LLC	County: Wilson
Address: 1900 Shawnee Mission Parkway	SW - NE - NE - NW Sec. 22 Twp. 30 S. R. 17 Y East West
City/State/Zip: Mission Woods, KS 66205	585 feet from S / (N) (circle one) Line of Section
Purchaser:	2034 feet from E / (M) (circle one) Line of Section
Operator Contact Person: M. B. Nattrass	Footages Calculated from Nearest Outside Section Corner:
Phone: (913) 748-3960 Contractor: Name: Thornton Air Rotary License: 33606 Wellsite Geologist:	(circle one) NE SE NW SW Lease Name: White Well #: 3-22 Field Name: Cherokee Basin Coal Area
Wellsite Geologist:	Producing Formation: Cherokee Coals
Designate Type of Completion:	Elevation: Ground: 979 Kelly Bushing:
New Well Re-Entry Workover	Total Depth: 1149 Plug Back Total Depth: 1138
OilSWDSIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 20 Feet
	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
	If Alternate II completion, cement circulated from 1138
If Workover/Re-entry: Old Well Info as follows:	feet depth to Surface w/ 120 sx cmt.
Operator:	w/ sx cmt.
Well Name:	Drilling Fluid Management Plan
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 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.:
7/20/2006 7/26/2006 10/11/2006 Spud Date or Recompletion Date Take Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec Twp S. R East West County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workown Information of side two of this form will be held confidential for a period of 107 for confidentiality in excess of 12 months). One copy of all wireline log-TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells.	
All requirements of the statutes, rules and regulations promulgated to regul 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
MR I tall	Waa 2411 24114
Signature: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KCC Office Use ONLY
Title: Agent Date: 2/5/07	Letter of Confidentiality Attached
Subscribed and sworn to before me this 5 day of February	If Denied, Yes Date:
$\sim 10^{-1}$	Wireline Log Received RECEIVED
WWW IN	Geologist Report Received CORPORATION COMM
Notary Public:	UIC Distribution FEB 0 7 2007
Date Commission Expires: 14 28 01 A NOTAGY PHIPLIC SH	COMPA
NOTARY PUBLIC State BROOKE C. MA	AXFIELD WICHITA, KS
My Appt. Exp. 12	28/79

Operator Name: Lay	ne Energy Opera	ating, LLC	Lease	Name:	White	www.commonweat	_ Well #: 3-2	2
	30 S. R. 17			y: Wilso				
ested, time tool ope emperature, fluid red	n and closed, flowing covery, and flow rate	and base of formations p g and shut-in pressures is if gas to surface test, final geological well site	, whether s along with	hut-in pre	essure reached	static level, hydro	static pressur	res, bottom hole
rill Stem Tests Take		☐ Yes 🗸 No		√ L	og Formati	on (Top), Depth a	ind Datum	Sample
(Attach Additional	,	□ v [7]N-		Nam	e		Тор	Datum
amples Sent to Geo ores Taken	ological Survey	☐ Yes 🗸 No ☐ Yes 🗸 No		Paw	nee Lime		559 GL	420
ectric Log Run (Submit Copy)		Yes No			ello Shale		681 GL	298
st All E. Logs Run:		W.C.C		V Sh	nale		744 GL	235
Compensated D	ensity Neutron	MON 1 3 SII	R	Mine	eral Coal		779 GL	200
Dual Induction	onoity reduction	COMPIDEN	MAL	Miss	sissippian		1110 GL	-131
			RECORD	✓ Ne urface, inte		ion, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Wei		Setting Depth	Type of Cement	# Sacjs Used	Type and Percent Additives
Surface	11	8.65	24		20'	Class A	4	Type 1 cement
Casing	6.75	4.5	10.5		1138'	Thick Set	120	
		ADDITIONAL	_ CEMENTI	NG / SQL	JEEZE RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks	SUsed		Type and P	ercent Additives	\$
Shots Per Foot		ON RECORD - Bridge Plu				ture, Shot, Cement		
	See Attached	Footage of Each Interval Pe	norated		(An	ount and Kind of Ma	teriai Used)	Depth
							-	
UBING RECORD	Size	Set At 900'	Packer A	\t	Liner Run	Yes 🗸 No		
	d Production, SWD or E		hod	Flowing			Othe	er (Explain)
Stimated Production Per 24 Hours	Oil O	Bbls. Gas	Mcf	Wate		-	as-Oil Ratio	Gravity
isposition of Gas	METHOD OF C				Production Interv	ral	8	RECEIVED
Vented ✓ Sold	Used on Lease	Open Hole	✓ Perf.		ually Comp.	✓ Commingled		RPORATION COMMIS
(If vented, Su		Other (Spec					F	EB 0 7 2007

Operator Name: Layne Energy Operating, LLC.

Lease Name: White 3-22

Sec. 22 Twp. 30S Rng. 17E, Wilson County

API: 15-205-26797

Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
4	876.5-878, 842-843.5	Weir, Tebo-3800# 20/40 sand, 304 bbls wtr, 350 gal 15% HCl acid	842-878
4	778.5-780.5, 744.5-747, 721.5-726	Mineral, Croweburg, Bevier-9600# 20/40 sand, 540 bbls wtr, 900 gal 15% HCl acid	721.5-780.5
4	681-687, 664-667	Mulky, Summit-8700# 20/40 sand, 520 bbls wtr, 800 gal 15% HCl acid	664-687



RECEIVED KANSAS CORPORATION COMMISSION FEB 0 7 2007

Layne Energy, Inc.

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

February 6, 2007

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



Re:

Well Completion Forms

To Whom It May Concern:

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

API # 15-205-26797 White 3-22

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,

Brooke C. Maxfield

Enclosures

Cc

Well File Field Office

RECEIVED KANSAS CORPORATION COMMISSION FEB 0 7 2007





Kansas Corporation Commission Oil & Gas Conservation Division

ORIGINAL September 1999 Must Be Typed

WICHITA, KS

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License #33365	API No. 15 - 205-26797 - 00-00
Name: Layne Energy Operating, LLC	County: Wilson
Address: 1900 Shawnee Mission Parkway	SW _NE _ NE _ NW Sec. 22 Twp. 30 S. R. 17 Y East West
City/State/Zip: Mission Woods, KS 66205	585 feet from S / N (circle one) Line of Section
	2034 feet from E / (W) (circle one) Line of Section
Operator Contact Person: M. B. Nattrass	Footages Calculated from Nearest Outside Section Corner:
Phone: (913) 748-3987	(circle one) NE SE NW SW
Contractor: Name: Thornton Air Rotary	Lease Name: White Well #: 3-22
License: 33606	Field Name: Cherokee Basin Coal Area
Wellsite Geologist:	Producing Formation: Cherokee Coals
Designate Type of Completion:	Elevation: Ground: 979 Kelly Bushing:
New Well Re-Entry Workover	Total Depth: 1149 Plug Back Total Depth: 1138
Oil SWD SIOW Temp. Abd.	Amount of Surface Pipe Set and Cemented at 20 Feet
✓ GasENHR ✓ SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
f Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 1138
Operator:	feet depth to Surface w/ 120 sx cmt.
Well Name:	, and the second
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan AH J NH 8-15-08
Deepening Re-perf Conv. to Enhr./SWD	
Plug Back Plug B	Chloride content N/A ppm Fluid volume bbls
Commingled Docket No.	Dewatering method used N/A - Air Drilled
	Location of fluid disposal if hauled offsite:
Dual Completion Docket No Other (SWD or Enhr.?) Docket No	Operator Name:
Other (SWD of Elini.?)	Lease Name: License No.:
7/20/2006 7/26/2006 10/11/2006	Quarter Sec Twp S. R
Spud Date or Date Reached TD Completion Date or Recompletion Date	County: Docket No.:
	Sound 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	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, or or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 2 months if requested in writing and submitted with the form (see rule 82-3-and geologist well report shall be attached with this form. ALL CEMENTING. Submit CP-111 form with all temporarily abandoned wells.
	te the oil and gas industry have been fully complied with and the statements
erein are complete and correct to the best of my knowledge.	
Signature: MS Fatha	KCC Office Use ONLY
Fitle: Agent Date: 11//3/06	J James of Carefida attallia Amarka d
13 Name 1.	Letter of Confidentiality Attached If Denied, Yes Date:
Subscribed and sworn to before me this 3 day of 1000mbox	Wireline Log Received
000	Geologist Report Received
lotary Public 1000 C. NV WWW.	RECEIVED
17/20/19	UIRANSAS CORPORATION COMMISSION
	NOV 1 4 2006
NOTARY PUBLIC - State Of K	CONSERVATION DIVISION
I DOONE C. MACFIE	Ho. I

BROOKE C. MAXFIELD 9

My Appt. Exp. |Z | Z809

Operator Name: La	yne Energy Oper	ating, LL	_C	Lease	Name:	White		Well #: <u>3-2</u>	2
Sec Twp	30 S. R. 17	_ ✓ Eas	st 🗌 West	County	: Wilso	on			
INSTRUCTIONS: S tested, time tool ope temperature, fluid re Electric Wireline Log	en and closed, flowin covery, and flow rate	g and shu es if gas to	ut-in pressures, o surface test, a	whether shalong with fi	nut-in pr	essure reache	d static level, hydr	ostatic pressur	
Drill Stem Tests Take			Yes √ No		 ✓ı	.og Forma	ition (Top), Depth	and Datum	Sample
Samples Sent to Ge	•	\Box	Yes ✓ No		Nan	ne		Тор	Datum
Cores Taken	-				Paw	nee Lime		559 GL	420
Electric Log Run (Submit Copy)		V	Yes No		Exc	ello Shale		681 GL	298
List All E. Logs Run:			KC	C	V SI	nale		744 GL	235
Compensated D	ensity Neutron		1001 1 9	2005	Min	eral Coal		779 GL	200
Dual Induction	•		000 -	entia	Mis	sissippian		1110 GL	-131
		Repo	CASING ort all strings set-	RECORD conductor, su	✓ N		action, etc.		
Purpose of String	Size Hole Drilled		ize Casing et (In O.D.)	Weig		Setting Depth	Type of Cement	# Sacjs Used	Type and Percent Additives
Surface	11	8.65		24		20'	Class A	4	Type 1 cement
Casing	6.75	4.5		10.5		1138'	Thick Set	120	
									tara test t
		T	ADDITIONAL	CEMENTIN	1G / SQI	JEEZE RECOF	RD		
Purpose: —— Perforate —— Protect Casing —— Plug Back TD —— Plug Off Zone	Depth Top Bottom	Тур	e of Cement	#Sacks	Used		Type and I	Percent Additives	
Shots Per Foot			RD - Bridge Plug Each Interval Per				acture, Shot, Cemer Amount and Kind of M		rd Depth
	See Attached								
				· · · · · · · · · · · · · · · · · · ·					
TUBING RECORD 2 3	Size 3/8"	Set At 900'	ı	Packer At		Liner Run	Yes V No		
Date of First, Resumer SI-Waiting on	d Production, SWD or E pipeline	Enhr.	Producing Meth	nod [Flowing	g 🗸 Pump	oing Gas Li	ft Othe	er (Explain)
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er	Bbls. (Gas-Oil Ratio	Gravity
Disposition of Gas	METHOD OF (COMPLETION				Production Inte		REC	EIVED
Vented Sold	Used on Lease ubmit ACO-18.)		Open Hole Other (Special	Perf.		Oually Comp.	✓ Comming f66N	SAS CORPORA	ATION COMMISSION 4 2006

4

Operator Name: Layne Energy Operating, LLC.

Lease Name:

White 3-22

Sec. 22 Twp. 30S Rng. 17E, Wilson County

API:

15-205-26797

Shots per Foot 4	Perforation Record 876.5-878, 842-843.5	Acid, Fracture, Shot, Cement Squeeze Record Weir, Tebo-3800# 20/40 sand, 304 bbls wtr, 350 gal 15% HCl acid	Depth 842-878
4	778.5-780.5, 744.5-747, 721.5-726	Mineral, Croweburg, Bevier-9600# 20/40 sand, 540 bbls wtr, 900 gal 15% HCl acid	721.5-780.5
4	681-687, 664-667	Mulky, Summit-8700# 20/40 sand, 520 bbls wtr, 800 gal 15% HCl acid	664-687

RECEIVED KANSAS CORPORATION COMMISSION

NOV 1 4 2006



MORNING COMPLETION REPORT

Report Called in by: : JES

Report taken by:

LEASE NAME & #		AFE#	DATE	DAYS	CIBP	PBTD		
					DEPTH	TYPE FLUID		
WHITE #3-22		C01034400100	7/20/2006	1	TYPE	196		
PRESENT OPERAT	ION:		DOUL OUT	FROM UNDER SUR	EACE	WT VIS		
SEREST CASING	LINERS OD TOP & SHOE				CONTRACTOR MOK			
EEPEST CASING DD SHOE DEPTH	LINERS OD TOP & SHOE DEPTH		REPAIR DOWN TIME HRS		RIG NO BILLY	M1		
ONOL DEI III	8 5/8" 24# J-55 Set 20'		TEST	PERFS				
PACKER OR ANCHOR				то	SQUEEZE	O OR PLUG BACK PERFS		
				то		то		
-,				то		то		
				то		то		
				то		то		
HRS	BRIEF DESCRIPTIO	N OF OPERATION	ON					
			=======================================		. IT A 5101 ALIDEA OF A			
	MIRU THORNTON D	RILLING, DRILL	ED 11" HOLE	., 20' DEEP, RIH W/	1 JT 8 5/8" SURFACE CA	SING,		
	MIXED 4 SXS TYPE	1 CEMENT. DUN	IPED DN TH	E BACKSIDE, SDFN				
				· · ·				
			:					
· · ·								

		<u> </u>	·····					
AILY COST ANAL	YSIS	**	····					
AILY COST ANAL	YSIS				DETAILS OF RENTALS SEE	WICES & MISC		
	/SIS			Lucy	DETAILS OF RENTALS, SEE	IVICES, & MISC		
	YSIS			MOKA	DETAILS OF RENTALS, SEF NT DRILLING @ 6.50/ft	IVICES, & MISC		
	YSIS					RVICES, & MISC		
IG	YSIS 200			MOKA	T DRILLING @ 6.50/ft	80		
RIG SUPERVISION				MOKA DIRTV	T DRILLING @ 6.50/ft T (CEMENT) VORKS (LOC,RD, PIT)	80 400		
IG UPERVISION				MOKA DIRTV SURF	AT DRILLING @ 6.50/ft AT (CEMENT) VORKS (LOC,RD, PIT) ACE CASING	80 400 200		
IG UPERVISION				MOKA DIRTV SURF	T DRILLING @ 6.50/ft T (CEMENT) VORKS (LOC,RD, PIT)	80 400		
IG UPERVISION				MOKA DIRTV SURF	AT DRILLING @ 6.50/ft AT (CEMENT) VORKS (LOC,RD, PIT) ACE CASING	80 400 200		
IG UPERVISION ENTALS	200			MOKA DIRTV SURF	AT DRILLING @ 6.50/ft AT (CEMENT) VORKS (LOC,RD, PIT) ACE CASING	80 400 200		
IG UPERVISION ENTALS				MOKA DIRTV SURF	AT DRILLING @ 6.50/ft AT (CEMENT) VORKS (LOC,RD, PIT) ACE CASING	80 400 200		
IG UPERVISION ENTALS	200			MOKA DIRTV SURF	AT DRILLING @ 6.50/ft AT (CEMENT) VORKS (LOC,RD, PIT) ACE CASING	80 400 200		
IG	200			MOKA DIRTV SURF	AT DRILLING @ 6.50/ft AT (CEMENT) VORKS (LOC,RD, PIT) ACE CASING	80 400 200		
IG UPERVISION ENTALS ERVICES	200			MOKA DIRTV SURF	AT DRILLING @ 6.50/ft AT (CEMENT) VORKS (LOC,RD, PIT) ACE CASING	80 400 200		
IG UPERVISION ENTALS ERVICES	200			MOKA DIRTV SURF	AT DRILLING @ 6.50/ft AT (CEMENT) VORKS (LOC,RD, PIT) ACE CASING	80 400 200		
IG UPERVISION ENTALS ERVICES	200	PREVIOU		MOKA DIRTV SURF	AT DRILLING @ 6.50/ft AT (CEMENT) VORKS (LOC,RD, PIT) ACE CASING	80 400 200		

NOV 1 4 2006

CONJOLIDATED OIL WELL SERVICES, INC. P.O. BOX 884, CHANUTE, KS 66720 620-431-9210 OR 800-467-8676

NOV 1 3 2015 CONFIDENTIAL TICKET NUMBER 10377 LOCATION Eureto FOREMAN Troy Stratler

TREATMENT REPORT & FIELD TICKET **CEMENT**

DATE	CUSTOMER #	WELL NAME & NUM	MBER	SECTION	TOWNSHIP	RANGE	COUNTY
	4158	White 3-23	•				Wilson
CUSTOMER	1 7 100	1 10 1110 11 21			\$ 1.30 (A) 1.50 (A)	MARKET BUILDING	
				TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDRE	ne Eneg		Gus	446	Calin		
	Box 16	0	- Jones	439	Turtin		
CITY		STATE ZIP CODE	T vares				
Sucama	· e	Ks	_]			Ĺ	
JOB TYPE_LO		HOLE SIZE 6 3/4"	_ HOLE DEPTH	1150	CASING SIZE & W	EIGHT_45	/ /0.3 4
CASING DEPTH		DRILL PIPE	TUBING			OTHER	
SLURRY WEIGH		SLURRY VOL 38 86			CEMENT LEFT in	CASING	····
DISDLACEMENT	IRRLI	DISPLACEMENT PSI 500	_ MIX PSI10	00 Burpfly	RATE		
REMARKS:	afety me	eting: Rig up to	15" Caring	. Break	Circulation	w/=25	Bbl water
Λ - υ.	.b Mal a E	has sky interfer	- 10.8hl	Metonlice	ate Pre-tly	1. X 061	Melite.
Mixed	1205ks	Thick Set (PMIN	+ 4/10.	# KO1-5~	1 4-1/56 6	13.	707.
1.1ach	and Pun	n +lines. Rela	pase ply	· Displac	ed w	8551 W	ute C.
Final	Rem Pi	ESCURE SOO PSI	. Bum	Phy to	1000 PSI.	Wait 2m	is Kelesk
Presence	, - , ,	Held. Good Ca	emont of	40 Surface	7861	Slury to	<u> </u>
				7	L Carala	1.	
					b Comple		

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	800.00	800.00
5406	40	MILEAGE 3:1 of 3wolls	3.15	-0-
1126A	120sks	Thick Set Coment Kol-Seal 10# Palsk	14.65	1758.00
1110A	1200#	Kol-Seal 10# Palsic	.36 #	432.00
1118.4	200 #	Gel-Huck	. 14 *	28.00
1111A	50 [#]	Metasilicate Pre-Flush	1.65#	8250
5407 A	6.6 Ton	Ton - Milrac Bulk Truck	1.05	277.20
4404	1	45" Top Rubber Plus	40.00	40.00
		RECEIVED KANSAS CORPORATION CON	MISSION	
		Think or NOV 1 4 2008		
		CONSERVATION DIVISION	N	
		WICHITA, KS	Seb Total	3417.70
		6.32	SALES TAX	147,45
		90/494	ESTIMATED TOTAL	3565 F

AUTHORIZATION Called By John Ed.

TITLE_

DATE_

GEOLOGIC REPORT

LAYNE ENERGY
White 3-22
NE NW, 585 FNL, 2034 FWL
Section 22-T30S-R17E
Wilson County, KS



 Spud Date:
 7/20/2006

 Drilling Completed:
 7/25/2006

 Logged:
 7/26/2006

 A.P.I. #:
 1520526797

Ground Elevation: 979'
Depth Driller: 1149'
Depth Logger: 1154'

Surface Casing: 8.625 inches at 20' Production Casing: 4.5 inches at 1138.4'

Cemented Job: Consolidated

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

Compensated Density/Neutron

Formation Tops (in feet below ground level)

Kansas City Group Surface (Chanute Shale)
Pawnee Limestone 559
Excelle Shale 681

Excello Shale 681
"V" Shale 744
Mineral Coal 779
Mississippian 1,110

RECEIVED KANSAS CORPORATION COMMISSION

NOV 1 4 2006

November 13, 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 # 15-205-26797 White 3-22

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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