Form 3160-5 (August 2007)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD	Artesia

FORM APPROVED OMB NO. 1004-0135 Expires. July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.			NMNM13074 6 If Indian, Allottee or Tribe Name				
	ii. Ose foriii 3100-3 (Ar		ргорозаіз.				
SUBMIT IN TRI	PLICATE - Other instru	ctions on re	vers side. El	VED	7 If Unit or CA/Agre	ement, Name and/or No.	
1. Type of Well			DEC 16	2009	8 Well Name and No.		
⊠ Oil Well ☐ Gas Well ☐ Other					MOSAIC 34 FED	ERAL 3H	
2. Name of Operator Contact LINDA GOC NMOCD ARTESIA CHESAPEAKE OPERATING, INC. E-Mail linda good@chk com				9 API Well No. 30-015-36001-0	DO-S1		
3a. Address		3b Phone N Ph. 405-9	lo (include area code	)	10 Field and Pool, or WILLOW LAKE		
OKLAHOMA CITY, OK 7315	4-0496	111. 400 0	100-4210	· ·	I VILLOVY LY (IV.	•	
4 Location of Well (Footage, Sec.)	R. M. or Survey Description	on)			11 County or Parish,	and State	
Sec 34 T24S R28E NESW 16	370FSL 25FWL			•	EDDY COUNT	Y, NM	
12. CHECK APP	ROPRIATE BOX(ES) T	O INDICAT	E NATURE OF	NOTICE, R	EPORT, OR OTHE	R DATA	
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION			
	☐ Acidize	П	epen	► Product	ion (Start/Resume)	Water Shut-Off	
Notice of Intent	Alter Casing	_	acture Treat	Reclam		☐ Well Integrity	
☐ Subsequent Report	Casing Repair		w Construction	□ Recomp		Other	
Final Abandonment Notice	Change Plans		ig and Abandon	_	arily Abandon	_	
	Convert to Injection Plug Back			☐ Water Disposal		•	
If the proposal is to deepen direction Attach the Bond under which the we following completion of the involved testing has been completed. Final A determined that the site is ready for Chesapeake, respectfully, reconstructions.	ork will be performed or provid doperations - If the operation r bandonment Notices shall be f final inspection.) quests verbal/quick appro	te the Bond No esults in a multified only after a oval to clean	on file with BLM/BI ple completion or rec Il requirements, inclu out this well and	A Required su completion in a ding reclamation	bsequent reports shall be new interval, a Form 31	e filed within 30 days 60-4 shall be filed once	
production per the following p  1. MIRU PU. NU BOP. Load			•	a down tubin	a.		
	-				<b>5</b> .		
<ol><li>Rig up coil tubing. Clean c 7,400', 8,200', and 9,000' Cu downhole.</li></ol>	rculate clean. RD coil. N	Note: plug at	5,950' may have	moved			
3. RIH w/2 7/8" tubing w/2 3/4	I" tubing pump w/on/off to	ool. Set the	EOT at the kick o	ff point of			
4450' and the TAC @ 4300'	Run the following rod str	ring		SEE CON	ATTACHEL DITIONS O	) FOR <del>F APPROVA</del> L	
14 Thereby certify that the foregoing i	s true and correct Electronic Submission	#78784 verifi	ed by the RI M We	II Information	System	TATTROVAL	
·	For CHESAPEA nmitted to AFMSS for pro-	KE OPERAT	NG. INC., sent to	the Carlsbad	1		
Name (Printed/Typed) LINDA GO		cessing by M			COMPLIANCE SP	PEC	
Signature (Electionic	Submission)		Date 12/14/2	2009			
	THIS SPACE F	OR FEDER	AL OR STATE	OFFICE U	SE		
Approved By CHRISTOPHER WA	ALLS		IntePETROLE	EUM ENGIN	GINEER Date 12/1		
Conditions of approval, if any, are attached certify that the applicant holds legal or cowhich would entitle the applicant to conditions.	juitable title to those rights in t	es not warrant o he subject lease	Office Carlsba	ad		09	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



# Additional data for EC transaction #78784 that would not fit on the form

## 32. Additional remarks, continued

76 1" Norris 97 76 7/8" Norris 97 25 1" Norris 97 On/off tool

4. ND BOP/NU WH. Rig down. Turn well over to production

(CHK PN 616369)



### **Current Wellbore Schematic with Survey Tracks**

#### MOSAIC 34 FEDERAL 3H

Field: SE EDDY PROJECT - WILLOW LAKE PROSPECT County: EDDY State: NEW MEXICO Elevation: GL 2,987.00 KB 3,005.00 KB Height: 18.00

Location: SEC 34, 24S-28E, 1670 FSL & 25 FEL

Spud Date: 10/4/2008 Initial Compl. Date: API #: 3001536001 CHK Property #: 616369 1st Prod Date: 12/15/2008 PBTD: Original Hole - 9602.0 TD: 9,665.0

278,57,78722 532,79782.	ftKB	Wel		riginal Hole, 12/11		PM CONTRACTOR	Well History	Event
ftKB (MD)	(TVD)	Incl		Schematic	- Actual		11/18/2008	PERF Cherry Canyon "Willow Lake" @ 9085'-9559' w/ 6 jspf, 3
18			PRESIDE A CONTRACTOR SERVED A ST			en in de la temperatura de la compansión d	11/19/2008	holes. ACDZ 9085-9559 w/ 3000 gal
620	620	1.0					12/1/2008	15% NeFe FRAC 9085-9559 w/ 184716 gal
622	622	1.0	13 3/8" 48# H-40 Surf					B Frac 25 Cross Link gel w/ 30500# 20/40 White sd & 49800
641	641	1.1	Csg					20/40 Super LC Set frac plug @
642	642	1.1	Cmt Lead w/700sx. Circ 166sx					9000'. PERF "Willow Lake" @ 8276-8859 w/ 6 jspf, 30 holes
2,100	2,099	3.5	TOC (Est)		- g 🖁	Tubing, 2 7/8, 4,374,		ACDZ w/ 3000 gal 15% NeFe FRAC w/ 180600 gal B Frac 25
2,530	2,529	1.6				6.50, L-80		Cross Link gel w/ 250000# 20/40 White sd & 50000# 20/40 Super
2,531	2,530	1.6	0.5/0" 36# 1.55 (-4					LC. Set Frac plug @ 8200' PERF "Willow Lake" @
2,599	2,597	1.4	9 5/8" 36# J-55 Inter Csg					7491-7999 w/ 6 jspf, 30 holes ACDZ w/ 3000 gal 15% NeFe.
2,600	2,599	1.4	Cmt Lead w/ 1950 sx . Super-H			Cook Number Cook Towns 2		FRAC w/ 186756 gal B Frac 25
4,374	4,372	1.2				Seat Nipple: Cup Type, 2 7/8, 4,375		Cross Link gel w/ 299760# 20/40 White sd & 51080# 20/40 Super
4,375	4,373	1.2				ESP - Pump, 3 1/2, 4,391		LC Set Frac plug @ 7400'. PERF "Willow Lake" @
4,391	4,390	1.4				ESP - Rotary Gas		6778-7361 w/ 6 jspf, 30 holes ACDZ w/ 3000 gal 15% NeFe.
4,398	4,396	1.5				Seperator, 3 1/2, 4,398 ESP - Seal Section, 3		FRAC w/ 182094 gal B Frac 25 Cross Link gel w/ 300000# 20/40
4,408	4,407	1.7				1/2, 4,408 ESP - Motor, 3 1/2,		White sd & 49040# 20/40 Super LC Set Frac plug @ 6700'
4,430	4,428	2.5				4,430		PERF "Willow Lake" @
4,452	4,450	3.8	КОР			,	12/2/2008	6020-6619 w/ 6 jspf, 30 holes ACDZ w/ 3000 gal 15% NeFe.
5,348	4,928	89.8						FRAC w/ 189402 gal B Frac 25 Cross Link Gel w/ 300000# 20/4
5,904	4,919	88.8				- 5,348, 5,904		White sd & 50820# 20/40 Super LC Set Frac Plug @ 5950'.
5,950	4,921	88.2				Frac Baffel w/ Ball, 4		PERF "Willow Lake" @ 5348-5904 w/ 6 ispf, 30 holes.
5,952	4,921	88.1			4	1/2, 5,950-5,952		ACDZ w/ 3000 gai 15% NeFe
6,020	4,923	88.2						FRAC w/ 188016 gal B Frac Cross Link Gel w/ 300080# 20/4
6,619	4,911	91.7				- 6,020, 6,619		White sd & 50000# 20/40 Super LC.
6,700	4,908	91.3				Frac Baffel w/ Ball, 4	12/9/2008	Tubing - Production set at 4,430 0ftKB on 12/9/2008
6,702	4,908	91.2			4	1/2, 6,700-6,702	1/24/2009	Tubing - Production set at 4,430 0ftKB on 1/24/2009
6,778	4,907	90.8				•	7/9/2009	Tubing - Production set at 4,430.0ftKB on 7/9/2009
7,361	4,887	93.5				- 6,778, 7,361	10/16/2009	Tubing - Production set at
7,400	4,884	93.7				Free Deffel/ Dell. 4	11/9/2009	4,430.0ftKB on 10/16/2009 Tubing - Production set at
7,402	4,884	93.6	CHERRY CANYON,			_ Frac Baffel w/ Ball, 4 1/2, 7,400-7,402	11/23/2009	4,430 0ftKB on 11/9/2009 Tubing - Production set at
7,491	4,880	92.1	5,348, 9,559					4,430 0ftKB on 11/23/2009
7,993	4,871	90.5	Marker Jt.			7,491, 7,999		
7,999	4,871	90.5		I				
8,016	4,871	90.4						
8,200	4,869	90.9				Frac Baffel w/ Ball, 4		
8,202	4,869	90.9	1		4	1/2, 8,200-8,202		
8,276	4,868	91.0						
8,859	4,864	90.3				- 8,276, 8,859		
9,000	4,861	92.4				Frac Raffol w/ Pall 4		
9,002	4,861	92.5				Frac Baffel w/ Ball, 4 1/2, 9,000-9,002		
9,085	4,857	92.8				,	' I	
9,559	4,834	93.1				9,085, 9,559		,
9,602	4,831	93.3	PBTD, 9,602, 11/8/2008			•		
9,621	.,	20.0	/ //002/ 11/0/2000					
9,623			= 4/00 4= // ·· · · ·					
9,664			5 1/2" 17# N-80 Prod Csg					
9,665			TD, 9,665, 11/8/2008 Cmt 1950sx Super H.					
2,003			Cinic 19903X Super II.					

# Mosaic 34 Federal 3H 30-015-36001 Chesapeake Operating Inc. December 14, 2009 Conditions of Approval

- 1. Surface disturbance beyond the existing pad must have prior approval.
- 2. Closed loop system required.
- 3. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM by January 14, 2010. Operator to supply NMOCD order, which details the vertical and horizontal extent of pool to verify that requested communitization is within an approved and established pool. NMOCD form C-123 pool designation request.
- 4. A Subsequent Sundry with current well test is required.

CRW 121409