District I 1625 N French Dr, Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr, Santa Fc, NM 87505

Date 3/8/2010

State of New Mexico Energy Minerals and Natural Resources

MAR 09 2010

Form C-101

NMOCS DOMARD TO SEA MAN District Office

RECEIVED

June 16, 2008

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

APPLICATION FOR PERMIT TO	DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE	

Phone: 405-935-3782

Operator Name and Address Chesapeake Operating, Inc. P.O. Box 18496 Oklahoma City, OK 73154-0496									² OGRID Num 147179 ³ API Numbe	-
3 Dunni	erty Code					5 Property Name		30 – 015-2		Well No
-	1426			,		State IN			'	1
⁹ Proposed Pool 1 Mosley Canyon, Strawn Gas									oosed Pool 2 Creek Wolfcamp	p Gas
Surface	Locatio	n								
UL or lot G	Section 1	Township 24S	Range 24E	Lot 1	ldn	Feet from the 1984'	North/South North	Fect from the 1966'	East/West line East	County Eddy
			tion If Differer							
or lot no	Section	Township	Range	Lot I	Idn	Feet from the	North/South line	Feet from the	East/West line	County
ddition	al Well	Informa	tion							
11 Work	Type Code A		¹² Well Type Co G	ode		13 Cable/Rotary		¹⁴ Lease Type Code S	15 C	Ground Level Elevation 3937'
¹⁶ N	Aultiple Y		¹⁷ Proposed Dep PBTD-10205			18 Formation Strawn & Wolfcan	np	19 Contractor		²⁰ Spud Date ASAP
Propos	sed Casir	ng and C	'ement Proo	ram Ac	tual o	casino & cei	nenting of v	vell-hore	• • • • • • • • • • • • • • • • • • • •	
Hole S	Size	Cas	sing Size	Casing	g weigh	ot/foot	Setting Depth	Sacks of C	ement	Estimated TOC
171				4002	150 a		Circulated			
1/2			48#		400	1 43U S	XS I	Circulated		
17 ½ 12 ½			3/8"		48# 36#		400' _2700'	450 s 1300 s		Circulated
	/ ₄ "	9		17#		5.5#			SXS	
12 ½ 8 ³ / ₄ Describe t	the proposed	9 g	3/8" 5 ½"	is to DEE	36# & 15	PLUG BACK, g	2700' 10880'	1300 s	SXS SXS	Circulated 2620'-TS
Describe the service the nesape officam ell-bonis pe	the proposed below to proposed below to proposed below to proposed pp. Pleare diagramit is	program. evention prograting exating ase fir gram, N	3/8" 5 ½" If this application or	is to DEEI e additiona ans to k proc 102s a	26# 28 15 PEN or all sheets or additional control of the control	PLUG BACK, g s if necessary d pay to t re, actual C-144 (CLE2 ninistrati	2700' 10880' Ive the data on the che Strawn and property pit peri	present productive and commingued mit.	zone and propose	Circulated 2620'-TS
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Conditions of Approval Attached

District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd , Aztec, NM 87410

District IV

1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department R 0 9 2010 Hevised October 15,2005 WAR 0 9 2010 Submit one copy to appropriate

1220 South St. Francis Dr. NMOCD ARTESIA Santa Fe, NM 87505

RECEIVED

Form C-102

District Office

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number				² Pool Code			³ Pool Name					
30-015-23380)		1	9748	9 إل	Undes, Crooked Creek; Wolfcamp Gas				[,		
⁴ Property C	∞de				⁵ Prope	rty N	lame			6 /	Well Number	-
301426	{	State IN	State IN 1									1
⁷ OGRID N	0.	[®] Operator Name									,	
147179		Chesape	ake Opera	ting, Inc.						3937' (GR	
					10 Surfa	œ L	ocation					
UL or lot no.	J Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East	East/West line Count		
G	1	248	24E		1984'		North	1966'	East		Lea	}
			^{· 11} Bo	ttom Hol	e Location	า If	Different Fro	m Surface	1			
UL or lot no.	Section	Township	Range	7		the	North/South line	, Feet from the	East	/West line		County
						-	i.		Ì			
12 Dedicated Acres	13 Joint o	r Infill 14	Consolidation	Code 15 Or	der No							
320				Di	HC-Pending							

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16					¹⁷ OPERATOR CERTIFICATION
					I hereby certify that the information contained herein is true and complete to the
			,		best of my knowledge and belief and that this organization either owns a
	-	뒫	Į		working interest or unleased mineral interest in the land including the proposed
,		÷	j		bottom hole location or has a right to drill this well at this location pursuant to
		1984' FNL			a contract with an owner of such a mineral or working interest, or to a
	,			'	voluntary pooling agreement or a compulsory apoling order heretofore entered
					by the division
			·		Dean Must 03/05/2010
			l		Signature Date .
		•	·		Bryan Arrant
				40001	Printed Name
				1966' FEL	
		-			
			•		
					18 SURVEYOR CERTIFICATION
					I hereby certify that the well location shown on this plat was
				T.	plotted from field notes of actual surveys made by me or under
		l			my supervision, and that the same is true and correct to the
					best of my belief
				•	Date of Survey
					Signature and Seal of Professional Surveyor
		or of the second			
				,	
					Please refer to original plat
	` `	and the second		·	
					Certificate Number
<u> </u>		A.			<u> </u>

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State of New Mexico

Energy, Minerals & Natural Resources Departing 0 9 2010

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. NMOCD ARTESIA

Santa Fe, NM 87505

Form C-102 Revised October 15,2009

Submit one copy to appropriate

AMENDED REPORT

District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool	³ Pool Name		
30-015-23380		81470	Mosley; Canyon; Strawn /			
⁴ Property Code			⁵ Property Name	⁶ Well Number		
301426	State IN			1		
⁷ OGRID No			⁸ Operator Name	⁸ Elevation		
147179	Chesapeake	Operating, Inc.		3937' GR		
		10	Surface Location			

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	1	24S	24E		1984'	North	1966'	East	Lea
			¹¹ Bot	tom Hol	e Location If	Different Fro	m Surface		•
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
		,							
¹² Dedicated Acres	s ¹³ Joint or	nfill 14 C	onsolidation (Code 15 Or	der No.				
320				DH	IC-Pending				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	Ţ			· · · · · · · · · · · · · · · · · · ·	
16		-			¹⁷ OPERATOR CERTIFICATION
			1		I hereby certify that the information contained herein is true and complete to the
		뒫	ļ		best of my knowledge and belief and that this organization either owns a
		1984'FNL	1		working interest or unleased mineral interest in the land including the proposed
		<u>8</u>	ļ		bottom hole location or has a right to drill this well at this location pursuant to
		. .	1		a contract with an owner of such a mineral or working interest, or to a
					voluntary pooling agreement or a compulsory pooling order heretofore entered
			<u> </u>		by the division
			ļ		Bey Just 03/05/2010
			ı		Sgnature Date
		•			Bryan Arrant
					Printed Name
				1966' FEL	
					18SURVEYOR CERTIFICATION
					I hereby certify that the well location shown on this plat was
					plotted from field notes of actual surveys made by me or under
					my supervision, and that the same is true and correct to the
					best of my belief
					Date of Survey
					Signature and Seal of Professional Surveyor.
			×.		
					B
,					Please refer to original plat
			t		Certificate Number
	I				

STATE IN 1 SEC 1, 24S-24E, 1980 FNL & 1980 FEL Eddy, NM API #3001523380



Add Pay to Strawn & Complete Wolfcamp

Well Data

Tubing:

2-3/8" 4.7# N-80 @ 9,148'

Casing:

5-1/2" 17# N-80 & 15.5# K-55/N-80 @ 10,880'

TOC:

2,620' based on Temp Survey

TD:

10,880'

PBTD:

10,205' (CIBP @ 10,240 w/ 35' cmt)

Elevation:

3,958' KB

3,937' GL

Tubing Detail:

Collar Stop:

9,001'

On/Off Tool:

9,041' (1.875" ID "F" profile)

Packer:

2-3/8" X 5-1/2" packer @ 9,044' (Guiberson Uni-Packer VI)

Tbg:

2-3/8" 4.7# N-80 @ 9,047' - 9,114'

F-Nipple:

9,114' (1.81" ID)

Tbg:

2-3/8" 4.7# N-80 @ 9,115' - 9,148'

Note:

Csg loaded w/ 77 bbls of 3% KCL per 1994 acid job.

Open Perforations:

Strawn

9,240' - 9,265' w/ 4 SPF (25' Gross Interval)

9,452' - 9,465' w/ 4 SPF (13' Gross Interval)

Proposed Perforations:

Strawn

9,147' - 9,185' w/ 4 SPF (38' Gross Interval)

Wolfcamp

8,022' - 8,032' w/ 4 SPF (10' Gross Interval)

8,982' - 8,996' w/ 4 SPF (14' Gross Interval)

Tubular Specifications

8775	warm	GIVINIS.	evisi	OF LANGE	easer .		(CEPT/LELT))
5-1/2"	17#	N-80	7,740 psi	348,000#	4.767"	0.97640	0.02320
5-1/2"	15.5#	K-55	4,810 psi	222,000#	4.825"	0.99970	0.02380
2-3/8"	4.7#	N-80	11,200 psi	104,340#	1.901"	0.16240	0.00387
2-3/8" x 5-1/2"				λ		0.76960	0.01830

Procedure

Strawn Perforations

- 1. Prepare location. Test anchors and clean area for workover.
- 2. MIRU SL. RIH to retrieve plunger equipment and collar stop @ 9,001'. POOH.
- 3. RIH to set plug in 1.81" F-Nipple @ 9,114'. RDMO SL.
- **4.** MIRU PU. ND WH. NU BOP. Unlatch from on/off tool @ 9,041'. Swab down backside w/ sandline. Backside was loaded w/ 77 bbls of 3% KCL in 1994. Bring back at least 60 bbls if possible in order to protect open perforations. Latch back into on/off tool.
- 5. Release 5-1/2" Guiberson Uni-packer VI. TOH standing 2-3/8" 4.7# N-80 production tbg. LD components of bottom hole production assembly. (Check and note any scale or corrosion. Salt buildup has been an issue in the past)
- 6. PU bit & scraper for 5-1/2" csg. TIH on 2-3/8" 4.7# N-80 tbg. TIH and clean-out through the perforations. TOH standing the tbg. LD the bit & scraper.
- 7. MIRU WL. PU perforating guns. Correlate to log and perforate Strawn from 9,147' 85' (38' Gross) w/ 2 SPF @ 90° phasing. POOH & LD guns. RDMO WL.
- 8. MIRU hydrotesters. PU 5-1/2" RBP w/ ball basket and packer. TIH while hydrotesting to 6000#'s. Set RBP @ +/- 9,200'. Release and come up to set packer @ +/- 9,135'. RDMO hydrotesters.
- 9. MIRU acid crew. Pump 5,000 gal 15% HCL acid treatment w/ ball diverters. Displace acid to the perfs w/ 2% KCL. RDMO acid crew.
- 10. Recover load, and swab test Strawn perforations (9,147′ 85′) w/ sandline.

Wolfcamp Perforations

- 1. Release packer. TIH and latch into RBP. Release RBP & TOH standing the tbg.
- 2. MIRU WL. PU perforating guns. Correlate to log and perforate Wolfcamp from 8,982' 96' (14' Gross) w/ 4 SPF @ 90° phasing. POOH & LD guns. RDMO WL.
- 3. PU 5-1/2" packer and RBP. TIH & set RBP @ +/- 9.100'. Release from RBP and set packer @ +/- 8,950'.
- 4. MIRU acid crew. Pump 1,500 gal 15% HCL acid treatment. Displace acid to the perfs w/ 2% KCL. RDMO acid crew.
- 5. Recover load, and swab test Wolfcamp perforations (8,982' 96') w/ sandline.
- 6. Release 5-1/2" packer. TIH and latch into RBP. Release RBP & TOH standing the tbg.
- 7. MIRU WL. PU perforating guns. Correlate to log and perforate Wolfcamp from 8,022′ 32′ (10′ Gross) w/ 4 SPF @ 90° phasing. POOH & LD guns. RDMO WL.
- 8. PU 5-1/2" packer and RBP. TIH & set RBP @ +/- 8,050'. Release from RBP and set packer @ +/- 8,010.
- 9. MIRU acid crew. Pump 1,500 gal 15% HCL acid treatment. Displace acid to the perfs w/ 2% KCL. RDMO acid crew.
- 10. Recover load, and swab test Wolfcamp perforations (8,982' 96') w/ sandline.
- 11. Release 5-1/2" packer. TIH and latch into RBP. Release RBP & TOH standing the tbg. LD completion packer and RBP.
- 12. PU 2-3/8" plunger equipment. TIH and land tbg @ +/- 9,452'. ND BOP. NU WH. RDMO PU.
- 13. Continue production of commingled Strawn and Wolfcamp formations.

Proposal - Workover



STATE IN 1

Mosley Canyon (Strawn) EDDY Field:

County:

NEW MEXICO State:

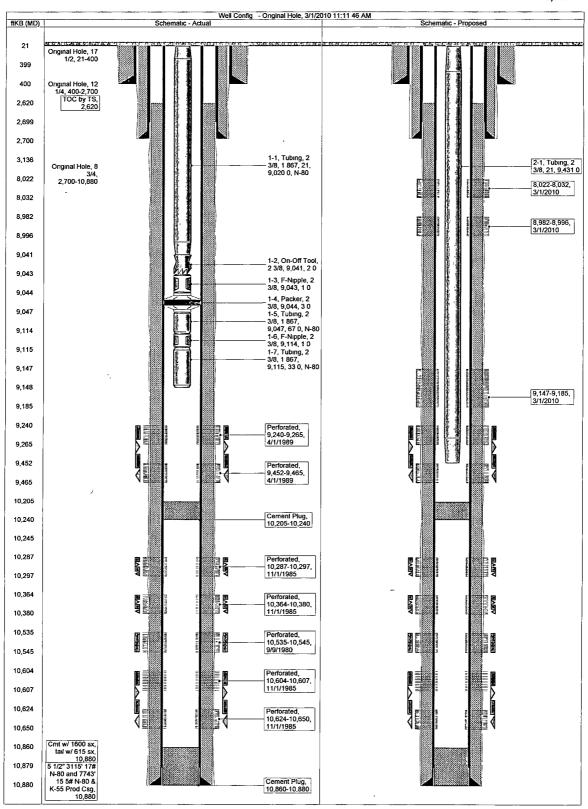
SEC 1, 24S-24E, 1980 FNL & 1980 FEL GL 3,937.00 KB 3,958.00 Location:

Elevation:

KB Height: 21.00

Spud Date: 7/6/1980 Initial Compl. Date: API #: 3001523380 CHK Propterty #: 891272 1st Prod Date: 3/1/1981 PBTD: Original Hole - 10240.0

TD: 10,880.0



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