# 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 Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

 $\square$  AMENDED REPORT

Form C-101

APP	<u>LICAT</u>	ION	FO	R PERMI	ГТОД	RILL	, RE-l	ENTER	R, DI	EEPE!	N, PLUGBA				
OperatorName and Address Chesapeake Operating Inc.									147179 <sup>2</sup> OGRID Number						
2010 Rankin Hwy Midland, TX 79701								30 025-25650 API Number							
<sup>3</sup> PropertyCode <sup>5</sup> Property								Name				/ell No.			
300017 State EO								<del></del>				1			
Antelope I	Ridge; At	toka (0		ProposedPool 1							" Prop	osedPool 2			
7 Surface								Locatio	n						
UL or lot no.	Section 26	rection Township Range 23S 34E			Lot Idn Feet fro		om the	North/South line Fee		Feet from the 1980	East/Westline West	County Lea			
	_			<sup>8</sup> Prop	osed Bott	tom Hol	le Locat	tion If Di	fferei	nt From	Surface				
UL or lot no.						Feet from the North/South line			Feet from the	East/Westline	County				
					Ac	dditior	nal We	ll Infor	mati	on					
	Type Code			12 Well Type Co	ode	n	13 Cable	/Rotary	otary 14 Lease Type Code			1	15 Ground Level Elevation		
P 16 N			G	17 Proposed De	pth	R	18 Forr	nation	S Contractor			3414 GR 20 Spud Date			
No			138			Morrow						12/	12/20/2006		
Depth to Gro	undwater	>100	 n	. —	Distanc	cefrom ne	arestfres	h water well			Distance from	nearest surface	water 000		
Pit: Liner	: Synthetic			ilsthick Clay	Pit Vol	lume:121	129 <sub>bbls</sub>	DrillingMethod:							
Close	ed-Loop Sys	stem [	]						Fresh \	Water X	Brine Diesel/C	II-based 🗆 Ga	s/Air 🔲		
				2	<sup>1</sup> Propo	sed Ca	ising a	nd Cem	ent	Progra	m				
Hole S	Size		Cas	sing Size		g weight/			Setting Depth Sacks of Cement Estin			Estimated TOC			
20	3120	16		, <u>6</u> ,	65		750	<del></del>		725					
14 3/4		10 3	/4	40.5		5100		5100	3100		3100		_		
9 1/2	9 1/2 7 5		8		29.7		12050		1325		The state of the s				
8 1/2	8 1/2		5			93		11937-13868		300					
22 Describe t	Describe the proposed program. If this application is to DEEPEN or PLUG BACK, g									on the pre	sent productive zone	and proposed n	ew productive zone		
Describe the	blowout pro	evention	n prog	ram, if any. Use	additional	sheets if r	necessary	<i>'</i> .		_			_		
Chosapoun	•	•	-	•				i io uio ii		. Lone	or me anaonoa	procedurer			
	Dag	nit F	xnii	res 1 Year	From /	Appro	VØ)				وسرو	62728293	300		
	17 GM (	)ate	Un'	less Drillin	& Unde	arwaey	r				( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	A	07		
	•	<b></b>		Plk	<u></u> gba	ck						· <b>A</b> ·	123		
											S.	DEI: 2006	34		
												<b>Receive</b>	d 55		
											9,		, O'68/		
				given above is t						OII.C	CONSERVAT	HONORIA			
of my knowledge and belief. I further certify that the drilling pit will be							OIL CONSERVATION OIL CONSERVATION								
constructed according to NMOCD guidelines $\square$ , a general permit $\square$ , or an (attached) alternative OCD-approved plan $\boxtimes$ .							Approved by:								
Printed name: Shay Stricklin							Title:								
Title: Regulatory Assistant								Approval Date OC DISTRICT SUPERVISION OF THE ANAGER							
E-mail Address: sstricklin@chkenergy.com															
Date: 12/13/2006 Phone: (432)687-2992								Conditions of Approvar Attached							

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>

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

'API Number

## State of New Mexico

Energy, Minerals & Natural Resources Department

# OIL CONSERVATIONDIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL LOCATION AND ACREAGEDEDICATION PLAT

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

30-025-2565	0		1	70360 Antelope Ridge; Atoka (Gas)								
3000 1 State EO			•		1	' Well Number						
OGRID No.						' Elevation						
147179	Chesapea	ke Operatir	g Inc.	10			34	14 GR				
					<sup>10</sup> Surface	Location						
UL or lot no.		Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes				
C 26 23S			34E		660	North	1980	West	Lea			
			11 Bot	tom Ho	le Location I	f Different Fron	n Surface					
UL or lot no.	or lot no. Section Township		Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line Count			
" Dedicated Acres	" Joint or	r Infill "(	Consolidation C	ode "Or	der No.							
320	N											
						80	working interesproposed botton pursuant to a control of the pursuant to a	of or unleased mineral in m hole location or has a contract with an owner of the problem of the division.  VEYOR Clertify that the we defrom field note, or my supervision at to the best of m.	-			
. 45 200-							Certificate Ni	ımber				

# State EO #1 Lea County, New Mexico

December 6, 2006

#### **GENERAL INFORMATION**

Location: 660' FNL & 1980' FWL, S26 - T23S - R34E

API No.: 30-025-25650

#### WELL INFORMATION

String OD	Weight & Grade	Depth	_ID	Drift_	Burst	TOC
10-3/4"	40.5/45.5# S80	0' - 5100'	9.950"	9.794"	3130	0'
7-5/8"	29/39# P110/S95	0' - 12050'	6.625"	6.50"	6450	5175'
5"	17.93# N80	11937' - 13868'	4.276"	4.151"	10140	11937'

Morrow Sand: 12995 – 13366' (OA)

TD/PBTD: 13871'/ 13390'

Proposed Upper Morrow Carbonate perfs: 12544 – 54'

### **Re-Completion Procedure**

- 1. MIRU Service Rig and requisite equipment. Kill well as required with 2% KCL. NDWH, NU BOP. Release Arrow Set and POOH with 2-3/8" N80 tubing.
- MIRU Wireline Service Unit. Run a GR/CCL log and correlate depth with Compensated Neutron-Density log dated 1/11/78 to set a 5" CIBP at 12950'. Pull correlation strip from ~13100' to 12100'. Bail 2 sx of cement on 5" plug.
- 3. Load hole with 2% KCL and pressure test to 1000#.
- 4. RIH w/ casing gun. Perforate the Upper Morrow w/ 4 SPF, 23 gram charge, .37" holes, 90 deg. phasing, from 12544' 54' (41 holes).
- 5. RIH w/ 5" treating packer testing tubing in hole as follows: Re-entry guide, 4' sub, 'XN' nipple, 10' sub, Arrow Set packer, on/off tool w/ 'X' profile nipple. Space out with the EOT at 12554'.
- 6. RU Acid Service Company. Spot 200 gal of 15% HCL Acid containing 20% methanol, 4 gpt of iron control, 1 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Pull packer to ~12500'. Reverse circulate to ensure packer is clear of acid, set packer. Pressure test annulus to 1000#.
- 7. ND BOP. NU tree. Pressure annulus to 1000 psi. Displace spot acid, establish rate of 4 to 5 BPM w/ 2% KCL. (Keep KCL water usage to a minimum). Acidize w/ 1800 gal of same acid. Displace w/ 2% KCL. Do not over-displace. Pump at

5 BPM max. Launch 50 ball sealers during job. Note rates and pressures. Note ISIP. Max pressure 6000#.

- 8. Flow/swab back job. Swab/flow test zone.
- 9. Re-treat as warranted. Pressure backside to 1000# and retreat as follows:
  - a) 1500 gal 20% NeFe Acid.
  - b) 3000 gal of 20% Ultragel.
  - c) 1000 gal 20% gelled NeFe.
  - d) 4000 gal of 20% Ultragel.
  - e) 500 gal of 20% gelled NeFe. Over-displace by 25 bbl of 2% KCL.

Treat via 2-3/8" production tubing at 5 - 6 BPM. Max pressure 6000#.

- 10. Flow back job. Swab to clean up and test.
- 11. Put well to sales. RDMO.