

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

Form C-101
May 27, 2004

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

Submit to appropriate District Office

APR 24 2008

☒ AMENDED REPORT

OCD-ARTESIA

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

¹ Operator Name and Address Chesapeake Operating Inc. 2010 Rankin Hwy Midland, TX 79701		² OGRID Number 147179
³ Property Code 300105		⁴ API Number 30 005-60690
⁵ Property Name MESA STATE COM		⁶ Well No. 1
⁹ Proposed Pool 1 Wildcat, ATOKA (GAS)		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no J	Section 31	Township 15S	Range 28E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 1980	East/Westline EAST	County CHAVES
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⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no J	Section 31	Township 15S	Range 28E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 1980	East/Westline EAST	County CHAVES
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Additional Well Information

¹¹ Work Type Code E	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code	¹⁵ Ground Level Elevation 3575.7 GR
¹⁶ Multiple NO	¹⁷ Proposed Depth 9409	¹⁸ Formation 9341	¹⁹ Contractor	²⁰ Spud Date 04/15/2008
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit Liner Synthetic <input type="checkbox"/> milsthrick Clay <input type="checkbox"/>		Pit Volume _____ bbls		
Closed-Loop System <input type="checkbox"/>		Drilling Method _____ Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48	363	375 SX	
11	8 5/8	24	1949	975 SX	
7 7/8	4 1/2	11.6	9409	1210 SX	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.
Chesapeake, respectfully, request permission to re-complete this well in the Atoka zone. We plan to set a CIBP @ 9050' w/ 3 1/2" EMT
Morrow zone. Re-completion procedure is attached.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Shay Stricklin

Title: Regulatory Tech.

E-mail Address: sstricklin@chkenergy.com

Date: 04/23/2008

Phone: (432)687-2992

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: 4/30/08

Expiration Date: 4/30/10

Conditions of Approval Attached ☐

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-005-60690	Pool Code 96050	Pool Name Wildcat ATOKA (GAS)
Property Code MESA STATE COM	Property Name	Well Number 1
OGRID No. 147179	Operator Name Chesapeake Operating Inc.	Elevation 3575.7 GR

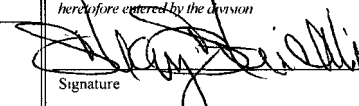
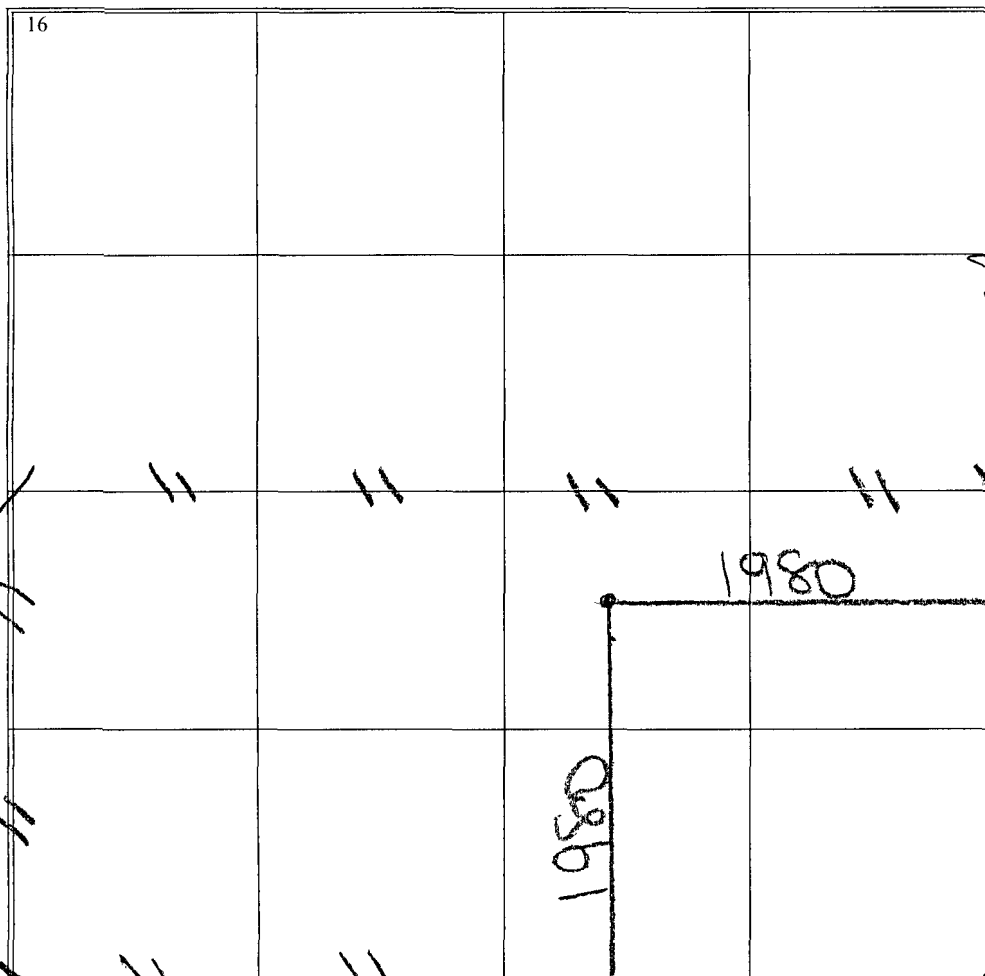
¹⁰ Surface Location

UL or lot no. J	Section 31	Township 15S	Range 28E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 1980	East/West line EAST	County CHAVES
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¹¹ Bottom Hole Location If Different From Surface

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Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

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 working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to 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 by the division.  Signature 04/23/2008 Date Shay Stricklin Printed Name
					¹⁸ SURVEYOR 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 Certificate Number



**Mesa State Com 1
Atoka Re-Completion
Chaves County, New Mexico**

Date: February 12, 2008

Location: 1,980' FSL & 1,980' FEL Sec. 31-T15S-R28E

Prod. Casing: 4-1/2", 11.6#, J-55, 0-9,409', ID-4.000", Drift-3.875", Burst-5,350#

Tubing/BHA: 2-3/8" tubing with packer @ 9,016'
NOTE: There is nothing in the reports, but it is suspected that there is some swabline stuck in the hole.

PBTD/TD: 9,341' / 9,409'

Existing Perfs: Morrow 9,096' – 9,125'

Procedure

1. MIRU workover rig. ND WH. NU BOP. Unset packer, TOH w/ 2-3/8" tubing. Monitor tubing as it is being TOH to be aware of presence of swabline. Pull out swabline as the tubing is pulled.

NOTE: If difficulty is encountered while pulling tubing and/or swabline then the plan can and most likely will change dependent upon how operations progress.

2. MIRU wireline unit. RIH w/ 4-1/2" CIBP and set at 9,080'. RIH and dump bail 35' of cement on top to abandon Morrow (9,096' – 9,125'). Tag plug to verify.
3. RIH and perforate Atoka as follows

Atoka	8,944' – 8,956'	12'	3 SPF	36 holes
Atoka	8,862' – 8,864'	2'	3 SPF	6 holes
Atoka	8,796' – 8,802'	6'	3 SPF	18 holes
	8,796' – 8,956'	20'		60 holes

Correlate to Neutron-Density log from 7/24/80. RDMO wireline unit.

4. TIH w/2-3/8" tubing and treating packer to bottom perf 8,802' and spot 7.5% HCl acid across perforated interval. PUH and set packer at 8,750'.

5. RU acid service. Acidize Atoka (8,796' – 8,956") with 2,000 gals 7.5% HCl and 100 ball sealers (150%). Surge off balls.
6. Swab well to determine productivity of Atoka intervals. *Dependent upon productivity, the Atoka could be fracture stimulated. If so, then a separate frac procedure will be sent.*

If the well is to be frac'd, then it will be done down a 2-3/8" or 2-7/8" tubing string or 3" flush joint as the 4-1/2" casing is only rated to 5,350 psi and is almost 30 years old. Based on expected treating pressures, the tubing string will need to be strong enough to provide the pressure necessary to effectively stimulate the well.

7. RIH w/ 2-3/8" tubing and SN, with end of tubing at bottom perf (8,956"). Tubing will be run open-ended to allow for future plunger lift if necessary.
8. ND BOP. NU WH. RDMO workover rig.



Current Wellbore Schematic

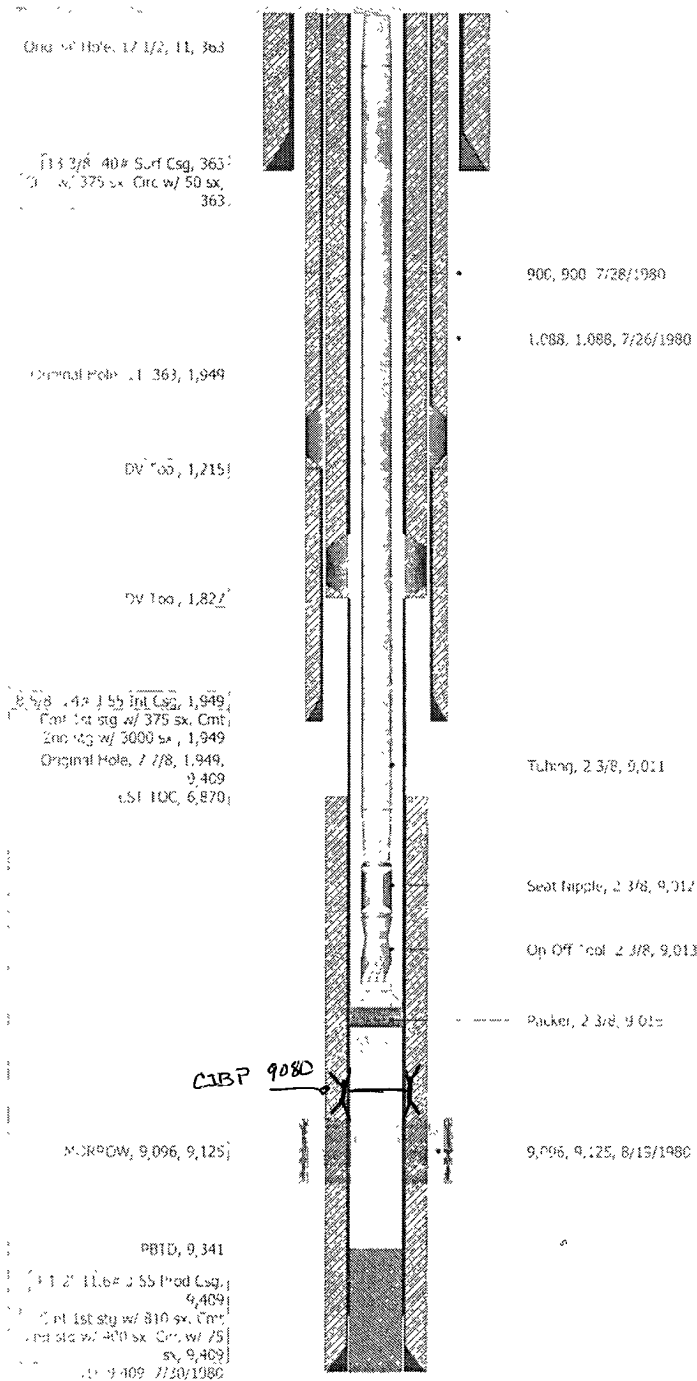
MESA STATE COM 1

Field: WILDCAT *Atoka*
County: CHAVES
State: NEW MEXICO
Elevation: GL 3,575.70 KB 3,586.70
KB Height: 11.00

Location: SEC 31, 15S-28E, 1980 FSL & 1980 FEL

Spud Date: 6/2/1980
Initial Compl. Date:
API #: 3000560690
CHK Property #: 891251
1st Prod Date: 8/19/1980
PBTD: Original Hole - 9341.0
TD: 9,409.0

Well Config Original Hole, 1/15/2008 11:36:24 AM
Schematic - Actual



Well History

Date	Event
7/26/1980	Perf @ 1,088' (3 holes), Pmp 500 sx Class "H" cmt w/ 16# salt per sx, 2,000 gals flo-check. Followed w/ 500 sx Class "H" w/ 16# salt per sx, 2,000 gal flo-check, 400 sx Class "C" w/ 4% CaCl & 53 bbls fresh wr.
7/28/1980	Perf @ 900', 3 more shots Pmp 400 sx Class "C" w/ 4% CaCl
8/19/1980	Perf @ 9,096-99' 9,101-125'
8/28/1980	Acid w/ 3,000 gals 7-1/2% MS acid Used 20 ball sealers. Ball action 2 different times. Flushed w/ 2% KCl wr Flowing back, Chk @ 7/8" making 600 MCF
1/19/1981	Tbg parted, dropped 39 jts to PBTD Tbg was fished & repaired. Run 2-3/8" tbg
5/19/1981	Tubing Production set at 9,016.04KID on 5/19/1981
5/19/1981	Frac 2 9,096-125 w/ 5,000 gal pad & 9,000 gal linear gel w/ CO2 & 19,250# 20:40 sand