

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

RECEIVED

☐ AMENDED REPORT

OCT - 4 2004

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, ~~PLUG BACK~~ OR ADD A ZONE

¹ Operator Name and Address Chesapeake Operating, Inc. P. O. Box 11050, Midland, Texas 79702-8050		² OGRID Number 147179
		³ API Number 30 015-23945
³ Property Code	⁵ Property Name Carrasco 6 Com	⁶ Well No. 001
⁹ Proposed Pool 1 Loving Undesignated Atoka North		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no. O	Section 6	Township 23S	Range 28E	Lot Idn	Feet from the 810	North/South line South	Feet from the 1980	East/Westline East	County Eddy
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⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no. O	Section 6	Township 23S	Range 28E	Lot Idn	Feet from the 810	North/South line South	Feet from the 1980	East/Westline East	County Eddy
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Additional Well Information

¹¹ Work Type Code Plug Back	¹² Well Type Code Private	¹³ Cable/Rotary	¹⁴ Lease Type Code Oil	¹⁵ Ground Level Elevation 3038.8 GR
¹⁶ Multiple	¹⁷ Proposed Depth 11,600	¹⁸ Formation Atoka	¹⁹ Contractor	²⁰ Spud Date 09/30/2004
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> milst thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: _____				
Closed-Loop System <input type="checkbox"/> 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
20"	16"	75#	400'	500 sx Cl. C	0
14"	10 3/4"	40.5# & 45.5#	2360'	1600 sx HLC, 200sx	0
9 7/8"	7 5/8"	29.7, 33.7 & 39#	9550'	1050sx Cl. H	

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.
See attached Workover procedure.

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: Brenda Coffman

Title: Regulatory Analyst

E-mail Address: bcoffman@chkenergy.com

Date: 09/28/2004

Phone: (432)685-4310

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

JAN 09 2005

Expiration Date:

JAN 09 2006

Conditions of Approval Attached ☐

Carrasco 6 #1 WORKOVER PROCEDURE

GENERAL INFORMATION

Location: 660' FSL & 1980' FEL, Sec 6 – T23S – R28E
API No.: 30-015-23945

WELL INFORMATION

<u>String OD</u>	<u>Weight & Grade</u>	<u>Depth</u>	<u>ID</u>	<u>Drift</u>	<u>Burst</u>	<u>TOC</u>
16"	?	0' – 400'	~15"	~15"	~2500	0'
10-3/4"	?	0' - 2360'	~9.8"	~9.8"	~500	0'
7-5/8"	29/34/39# S95&N80	0' - 9550'	6.625"	6.50"	6890	~4550'
5.00"	23.2 # C75&N80	9189' – 12481'	4.044"	3.919"	12550	TOL
2-3/8"	4.7# N80	EOT @ 11876'	1.995"	1.901"	11200	

Existing Morrow perms: 11956 – 12134'
Proposed Atoka perms: 11314 - 11322'
PBTD: 12481'

Note: Well files not available yet. Well may have a CIBP above the Morrow ~11,900'. Reported to have run 379 jts of 2-3/8" tubing into well open-ended in January of 2004 as well was SI.

Completion Procedure

1. MIRU Service Rig and requisite equipment. NU BOP.
2. PU additional 2-3/8" N80 tbg. RIH and tag PBTD. Circulate hole clean with 2% KCL. POOH tallying pipe.
3. MIRU Wireline Service Company. Run GR/CBL/CCL from PBTD to ~9000'. Correlate to OH CNCD log dated 4/1982. Set a CIBP @ 11,900' (if needed). Bail 2 sx of cement on plug. Load and test casing to 1000#.
4. Perforate via casing gun the Atoka 11314 – 322' w/ 4 SPF, 90 deg phasing, 23 gram charge, .38" hole, 33 holes.
5. RIH to with treating packer dressed for 23.2# 5" N80 picking up 2-7/8" 6.5# P-110 workstring.
6. MIRU Acid Service Company. Spot 200 gal of 7-1/2% NeFe w/ EOT @ 11,322'. Acid to contain 4 gpt of iron control, 1 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Pull and set packer @ ~11260'. ND BOP and NU tree. Pressure test lines. Pressure annulus to 1000 psi. Displace spot acid, establish rate of 3 to 4 BPM w/ 7% KCL. Acidize w/ 1,300 gal of 7-1/2% HCL. Acid to contain 200 gpt of methanol, 4 gpt of iron control, 1 gpt each of corrosion inhibitor, surface tension reducer, and non-emulsifier. Max pressure 10,000#. Ramp rate and frac the Morrow with 35,000 gal of 40# Binary Foam and 35,000 pounds of 18/40 mesh Versaprop at rates approaching 15 BPM per frac schedule. Ramp sand from 1/2 to 3#/gal. Maximum pressure 13,000#. Anticipated treating pressure ~10,500#.
7. Flow back to recover load, clean up well, and test zone.
8. Kill well as required with 2% KCL. ND tree. NU BOP. POOH laying down workstring.
9. RIH w/ Arrowset packer, 2-3/8" 4.7# N80 tubing subs, nipples, and 2-3/8" tubing as follows: Re-entry guide, 4' sub, 'XN' w/ 1.791" no-go, 10' sub, Arrowset packer w/ 1.875" 'X' Profile in on/off tool, and 2-3/8" N80 tubing. Space out tubing and set packer ~ 11,260'. Pressure test annulus to 1000#. ND BOP. NU tree.
10. Swab well in. RDMOCU.

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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 June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-23945		2 Pool Code		3 Pool Name Undesignated; Atoka		
4 Property Code		5 Property Name Carrasco 6 Com			6 Well Number 001	
7 OGRID No. 147179		8 Operator Name Chesapeake Operating, Inc.			9 Elevation	

10 Surface Location

UL or lot no. O	Section 6	Township 23S	Range 28E	Lot Idn	Feet from the 810	North/South line South	Feet from the 1980	East/West line East	County Eddy
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11 Bottom Hole Location If Different From 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 320		13 Joint or Infill		14 Consolidation Code		15 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. <i>Brenda Coffman</i> Signature Brenda Coffman Printed Name Regulatory Analyst bcoffman@chkenergy.com Title and E-mail Address 09/28/2004 Date	
					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	

Diagram showing well location: 810' (vertical), 1980' (horizontal)