District IV

## State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

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

1220 S St Francis Dr, Santa Fe, NM 87505

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

**OCD-ARTESIA** 

| APPI   | <b>LICAT</b> | <u>IONF(</u> |                  |                  |                    | , RE-J   | ENTE  | ER, DE                        | EPE                              | N, PLUC                              | <b>GBACK</b>        | COR A      | ADD A ZONE                           |  |
|--|--------------|--------------|------------------|------------------|--------------------|----------|---|-------------------------------|----------------------------------|--------------------------------------|---------------------|------------|--------------------------------------|--|
| OperatorName and Address Chesapeake Operating Inc.   |              |              |                  |                  |                    |          |   |                               | 147179 <sup>2</sup> OGRID Number |                                      |                     | mber       |                                      |  |
| 2010 Rankin Hwy Midland, TX 79701  |              |              |                  |                  |                    |          |   |                               |                                  | <sup>3</sup> API Number 30 015-27449 |                     |            | ber                                  |  |
| ³ Prope  | ertyCode     |              | T                |                  | 5 P                | roperty  | Name  |                               |                                  | 1 30 -01                             | 3-21449             | - 6        | Well No                              |  |
| 26389 Malaga C   |              |              |                  |                  |                    |          |   |                               |                                  |                                      | 3                   |            |                                      |  |
| Proposed Pool 1  |              |              |                  |                  |                    |          | -   | <sup>10</sup> Proposed Pool 2 |                                  |                                      |                     |            |                                      |  |
| Culebra Bluff; Bone Spring, South  |              |              |                  |                  |                    |          |   |                               |                                  |                                      |                     |            |                                      |  |
|  |              |              |                  |                  | <sup>7</sup> Su    | rface    | Locat   | ion                           |                                  |                                      |                     |            |                                      |  |
| UL or lot no   | Section      | Township     | Range            |                  |                    | Feet fro |   |                               | Feet from the Ea                 |                                      | ast/Westline County |            |                                      |  |
| N 36 23S 28E   |              |              | 990              |                  |                    | SOUT     | Н   | 1980                          |                                  | EST                                  | EDDY                |            |                                      |  |
| 8 Proposed Bottom Hole Location If Different From Surface  |              |              |                  |                  |                    |          |   |                               |                                  |                                      |                     |            |                                      |  |
| UL or lot no   | Section      | Township     |                  | Lot Idn Feet fro |                    |          | he North/South line                               |                               | Feet from the Ea                 |                                      | East/Westlin        |            |                                      |  |
| N  | 36           | 23S          | 28E              |                  |                    | 990      |   | SOUTH                         |                                  | 1980 WI                              |                     | EST EDDY   |                                      |  |
| Additional Well Information  |              |              |                  |                  |                    |          |   |                               |                                  |                                      |                     |            |                                      |  |
| 11 Work Type Code 12 Well Type Code  |              |              |                  | 13 Cable         | ble/Rotary 14      |          |   | Lease Type Code               |                                  | 15 Ground Level Elevation            |                     |            |                                      |  |
| E  | 6-14-1-      | 0            | 17 p 15          | -41-             | S S S Formation    |          |   | S                             |                                  |                                      | 2972 GR             |            |                                      |  |
| NO "M  | Iultiple     | 12           | 17 Proposed Dep  | otn              | BONE               |          |   | IALF                          |                                  | 19 Contracto                         | or                  | 11         | <sup>20</sup> Spud Date<br>2/05/2007 |  |
| Depth to Grou  | undwater     | 112          | 170              | Distanc          | ce from nea        |          |   |                               |                                  | Dista                                | nce from nea        |            |                                      |  |
|  |              | <del></del>  |                  | 1 5              |                    |          |   |                               | 3.6.1                            | <u> </u>                             |                     |            |                                      |  |
|  | Synthetic    |              | milsthick Clay L | ☐ Pit Vol        | iume               | bbls     |   |                               | ngMethod                         |                                      |                     |            |                                      |  |
| Close  | xd-Loop Sys  | tem 📙        |                  |                  |                    |          |   | Fresh V                       | later L                          | Brine 🔲 [                            | Diesel/OI-ba        | sed L C    | as/Air 🔲                             |  |
|  |              |              | 2                | Propos           | sed Ca             | sing a   | nd Ce   | ment I                        | Progra                           | m                                    |                     |            |                                      |  |
| Hole S   | Size         |              | Casing Size      | Casin            | Casing weight/foot |          |   | Setting Depth                 |                                  | Sacks of Cement                      |                     | it         | Estimated TOC                        |  |
| 17 1/2   |              | 13 3/8       |                  | 48               |                    |          | 622   |                               | 850 C                            |                                      |                     |            |                                      |  |
| 12 1/4 9 5/8   |              |              | 36 & 40          |                  |                    | 2700     |   | 710 C                         |                                  |                                      |                     |            |                                      |  |
| 8 1/2  |              | 7            |                  | 23 & 26          |                    | 10500    |   | 650 H & 600 C                 |                                  |                                      |                     |            |                                      |  |
|  | \            |              |                  |                  |                    |          |   |                               |                                  |                                      |                     |            |                                      |  |
| <del></del>  |              |              |                  |                  |                    |          |   |                               |                                  |                                      |                     |            |                                      |  |
| 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 recomplete this well per the attached procedure.  NO PIT.  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 recomplete this well per the attached procedure.  NO PIT. |              |              |                  |                  |                    |          |   |                               |                                  |                                      |                     |            |                                      |  |
| <sup>23</sup> 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   |              |              |                  |                  |                    |          | OIL CONSERVATION DIVISION                         |                               |                                  |                                      |                     |            |                                      |  |
| constructed according to NMOCD guidelines $\boxtimes$ , a general permit $\square$ , or an (attached) alternative OCD-approved plan $\square$ .  |              |              |                  |                  |                    |          | Approved by BRYAN G. ARRANT DISTRICT II GEOLOGIST |                               |                                  |                                      |                     |            |                                      |  |
| Printed name Shay Stricklin Title:   |              |              |                  |                  |                    |          |   | ····                          |                                  |                                      |                     |            |                                      |  |
| Title.   | Regula       | tory Tec     | ch.              | ٧                |                    |          | Appro   | val Date                      | DEC                              | 0 7 200                              | 7 Expir             | ation Date | DEC 0 7 2008                         |  |
| E-mail Addre   | ss sstrick   | lin@chk      | energy.com       |                  |                    |          |   |                               |                                  |                                      |                     |            |                                      |  |
| Date: 11/29/2007 Phone. (432)687-2992  |              |              |                  |                  |                    | Condit   | tionsof Ap  | proval A                      | ttached                          | 5                                    | C                   | o-A        |                                      |  |

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

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

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

1220 South St. Francis Dr.

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

Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATIONDIVISION

☐ AMENDED REPORT

| WELL LOCATION AND ACREAGE DEDICATION PLAT         |            |             |             |             |                                   |                  |               |                |      |        |  |  |
|---|------------|-------------|-------------|-------------|-----------------------------------|------------------|---------------|----------------|------|--------|--|--|
|   | PI Number  | •           |             | ' Pool Code |                                   | ' Pool Name      |               |                |      |        |  |  |
| 30-015-2744                                       |            | 150         | 011         | C           | Culebra Bluff; Bone Spring, South |                  |               |                |      |        |  |  |
| Property Code                                     |            |             |             |             | •                                 | ' Well Number    |               |                |      |        |  |  |
| 26389   | Malaga C   |             |             | 3           |                                   |                  |               |                |      |        |  |  |
| OGRID No.   |            |             |             |             |                                   | ' Elevation      |               |                |      |        |  |  |
| 147179  |            | Chesapeak   | e Operat    | ing Inc.    | 2972                              | 2972 GR          |               |                |      |        |  |  |
| 10 Surface Location                               |            |             |             |             |                                   |                  |               |                |      |        |  |  |
| UL or lot no.                                     | Section    | Township    | nship Range |             | Feet from the                     | North/South line | Feet from the | East/West line |      | County |  |  |
| N   | 36 238     |             | 28E         |             | 990                               | SOUTH            | 1980          | WEST           | EDDY |        |  |  |
| 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 |  |  |
| N   | 36 23S     |             | 28E         |             | 990                               | SOUTH            | 1980          | WEST           | EDDY |        |  |  |
| 12 Dedicated Acres                                | Infill "Co | nsolidation | Code 15 Or  | der No.     |                                   |                  |               |                |      |        |  |  |
| 80  |            | _           |             |             |                                   |                  |               |                | ·    |        |  |  |

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  Thereby 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 locs a right to drill this well at this location                        |
|          |     | pursuant to a contract with an owner of such a numeral or working interest,                              |
|          |     | or to a voluntary pooling agreement or a compulsory pooling order  |
|          |     | heretofor entered by the division  |
|          |     | Jan tri Min /29/2007   |
|          |     | Signature Date   |
|          |     | Shay Stricklin   |
|          |     | Printed Name   |
|          |     |  |
|          |     | , '  |
|          |     | 18gr IDATENOD GED TIELG A TION   |
|          |     | 18SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this pla                      |
|          |     | 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   |
|          |     |  |
| <u> </u> |     | Date of Survey   |
|          |     |  |
| 1460     | , , | Signature and Seal of Professional Surveyor  |
|          |     |  |
|          |     |  |
|          |     | ,  |
|          |     |  |
|          |     | Certificate Number   |
|          |     |  |
|          |     |  |

## Malaga C 3 Eddy County, New Mexico Bone Springs Shale Recompletion Procedure

**Date:** October 30, 2007

Location: 990' FSL & 1980' FWL Sec. 36-T23S-R28E

**Production Casing:** 7" 23 & 26# L-80 & K-55 LT&C, 0-10,500', ID-6.276", Drift-6.151", Burst- 4,360#

**Production Liner**: 4 ½" 9,711-12,198'

**PBTD/TD:** 12,106'/ 12,198'

**Current Perfs:** Atoka 11,824-12,011'

**Proposed Perfs:** Bone Springs Shale 6,706-6,840', 6,994-7,110'

## **Recommended Procedure:**

CoA

1. MIRU PU. NDWH/NUBOP. Release packer and POH tbg and packer.

2. RU wireline co. RIH w/ junk basket and gage ring to 11,800'. RIH w/ 4 ½' CIBP and set at 11,775'. Dump xxs of cement on top of CIBP. Pressure test CIBP to 2000 psi.

3. Perforate Bone Springs Shale w/ 6 spf, 60 degree phasing using casing gun as follows:

6994-96' (2' – 12 holes)

7030-32' (2' – 12 holes)

7058-60' (2' – 12 holes)

7108-10' (2' – 12 holes) (Total 8' – 48 holes)

4. RU frac co. Frac Bone Springs Shale per frac recommendation (Anticipate 5,000 gal acid, 700,000 gal slick water, 200,000# sand, 75 BPM).

5. RU wireline co. RIH w/ Junk basket & gage ring to 6975'. Set Comp BP @ 6900'.

6. Perforate Bone Springs Shale w/ 6 spf, 60 degree phasing using casing gun as follows:

6706-08' (2' - 12 holes)

6744-46' (2' - 12 holes)

6784-86' (2' – 12 holes)

6806-08' (2' – 12 holes)

6838-40' (2' – 12 holes) (Total 10' – 60 holes)

7. RU frac co. Frac Bone Springs Shale per frac recommendation (Anticipate 5,000 gal acid, 900,000 gal slick water, 275,000# sand, 90 BPM).

- 8. RIH w/ bit, drill collars on tbg. Drill out Comp. BP @ 6900'. Circulate hole clean to 7200'. POH w/ bit.
- 9. RIH w/ 2 3/8" tbg w/ SN to 7150'. Swab back frac and kick well off.
- 10. NDBOP/NUWH. Place well on line. RD MO.

## Arrant, Bryan, EMNRD

From: Arrant, Bryan, EMNRD

Sent: Friday, December 07, 2007 10:53 AM

To: 'sstricklin@chkenergy.com'

Subject: Malaga C # 1/API # 30-015-27449-COA

Dear Shay or To Whom It May Concern,

The above noted recompletion to the Bone Spring is approved with the following conditions of approval:

35' of cement needs to be set on top of the CIPB at 11,775'.

A 100' cement plug needs to be set at the top of the Wolfcamp formation.

@ 9620'-9720'.

(Please note that the old completion report submitted by Phillips Petroleum shows the top of the Wolfcamp to be 9280' which I have to disagree with.)

Please call if you have any questions.

Yours truly,

Bryan G. Arrant District II Geologist New Mexico Oil Conservation Division 1301 West Grand Ave. Artesia, NM 88210 505-748-1283 Ext. 103

CC: Well File