OCD-ARTESIA

Form 3160-3 (August 1999)

| FORM APPROVED             |
|---------------------------|
| OMB No. 1004-0136         |
| Expires November 30, 2000 |

| UNITED ST   |  | Expires November 30, 2000                             |
|---|--|---|
| DEPARTMENT OF T   |  | 5. Lease Serial No.                                   |
| BUREAU OF LAND  | MANAGEMENT   | NMLC029395B   |
| APPLICATION FOR PERMIT  | TO DRILL OR REENTER  | 6. If Indian, Allottee or Tribe Name                  |
| la. Type of Work:   |  | 7. If Unit or CA Agreement, Name and No.              |
| 1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Oth   | ner Single Zone  | 8. Lease Name and Well No.<br>LEE FEDERAL 11          |
|   | DIANA CANNON<br>E-Mail: production@marbob.com  | 9. API Well No.<br>30-015-32737                       |
| 3a. Address<br>P O BOX 227<br>ARTESIA, NM 88211-0227  | 3b. Phone No. (include area code) Ph: 505.748.3303 Fx: 505.746.2523                                  | 10. Field and Pool, or Exploratory LOCO HILLS-PADDOCK |
| 4. Location of Well (Report location clearly and in accorda   | nce with any State requirements 11121314   | 11. Sec., T., R., M., or Blk. and Survey or Area      |
| At surface NWSE Lot J 2310FSL 1650  | Fx: 505.746.2523  nce with any State requirements 10 112 13 14 15 16                                 | Sec 20 T17S R31E Mer NMP                              |
| At proposed prod. zone NWSE Lot J 2310FSL 1656  | /6° &  | 4)<br>8   |
| 14. Distance in miles and direction from nearest town or post   |  | Q. County or Parish 13. State                         |
| EAST OF ARTESIA ON HWY 82 APPX 30.1 MI  |  | 20 €DDY NM  |
| 15. Distance from proposed location to nearest property or  | 16. No. of Acres in Lease  | Spacing Unit dedicated to this well                   |
| lease line, ft. (Also to nearest drig. unit line, if any) 1650'   | 1786.15 E  | 40.00   |
| 18. Distance from proposed location to nearest well, drilling,  | 19. Proposed Depth   | 20. BLM/BIA Bond No. on file                          |
| completed, applied for, on this lease, ft.  | 6000 MD  |   |
| 21. Elevations (Show whether DF, KB, RT, GL, etc. 3698 GL   | 22. Approximate date work will start 02/15/2003  | 23. Estimated duration 21 DAYS                        |
|   | 24. Attachments  |   |
| The following, completed in accordance with the requirements o  |  | ontrolled Water Basin                                 |
|   |  |   |
| <ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>   | Item 20 above).  | ns unless covered by an existing bond on file (see    |
| <ol> <li>A Surface Use Plan (if the location is on National Forest Syst<br/>SUPO shall be filed with the appropriate Forest Service Of</li> </ol> | ern Lands, the fice).  5. Operator certification 6. Such other site specific inf authorized officer. | formation and/or plans as may be required by the      |
| 25. Signature (Electronic Submission)   | Name (Printed/Typed) DIANA CANNON  | Date 01/20/2003                                       |
| Title AUTHORIZED REPRESENTATIVE   |  |   |
| Approved by (Signature)   | Name (Printed/Typed)   | Date APR 0 8 2003                                     |
| _/s/ LESLIE A. THEISS   | /s/ LESLIE A. THEIS  | S AFR U O ZUUS  |
| Tide Field Manager  | Office Carlsbad Fix  | eld Office  |
| Application approved door not warrant or cartify the applicant he   | alde local or aquitable title to those rights in the subject le                                      | ase which would entitle the applicant to conduct      |

Additional Operator Remarks (see next page)

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

operations thereon.
Conditions of approval, if any, are attached.

Approval Subject to General Requireme Apecial Supublica Allached

Electronic Submission #17775 verified by the BLM Well Information System For MARBOB ENERGY CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by Linda Askwig on 01/21/2003 (03LA0246AE)

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

Witness Surface Casing

### **Additional Operator Remarks:**

17 1/2" HOLE, 13 3/8" 48# H40 CSG SET @ 350', CMT W/ 400 SX 12 1/4" HOLE, 8 5/8" 24# J55 CSG SET @ 1200', CMT W/ 300 SX 7 7/8" HOLE, 5 1/2" 17# J55 CSG SET @ 6000', CMT SUFFICIENT TO COVER 200' ABOVE ALL KNOWN OIL & GAS HORIZONS.

PAY ZONE WILL BE SELECTIVELY PERFORATED AND STIMULATED AS NEEDED FOR OPTIMUM PRODUCTION.

#### ATTACHMENT INCLUDES:

- WELL LOCATION AND ACREAGE DEDICATION PLAT
   DRILLING PROGRAM
   SURFACE USE AND OPERATING PLAN
   HYDROGEN SULFIDE DRILLING OPERATIONS PLAN
   ADDITIONAL REQUIRED INFORMATION (EXHIBITS #1 #4)

DISTRICT | P.O. Box 1980, Eobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Departmen.

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD. Artesia. NE 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT IV P.O. BOK 2088, SANTA FE, N.M. 87504-2088 Santa Fe, New Mexico 87504-2088

CI AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number             | Pool Code        | Pool Name      |                   |  |  |
|------------------------|------------------|----------------|-------------------|--|--|
|                        | 96718            | LOCO           | HILLS PADDOCK     |  |  |
| Property Code<br>23300 | Proper<br>LEE FE | y Name<br>ERAL | Well Number       |  |  |
| OGRID No.<br>14049     | MARBOB ENERGY    | CORPORATION    | Elevation<br>3698 |  |  |

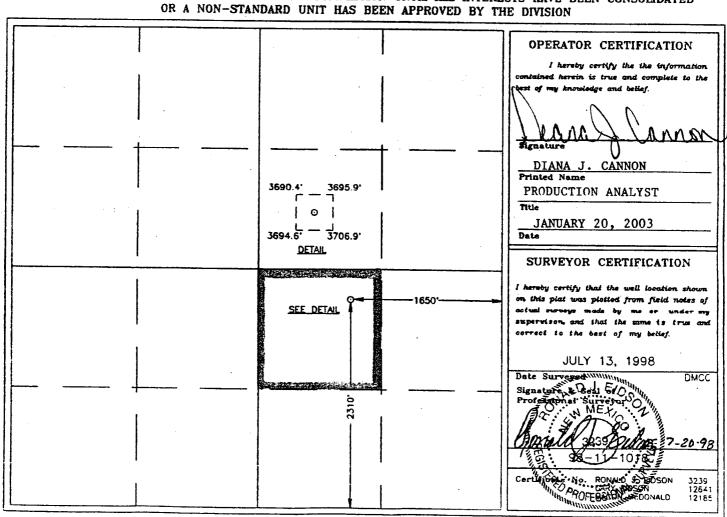
#### Surface Location

| UL or lot No. | Section | Township | Range | Lot idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| J             | 20      | 17 S     | 31 E  | ,       | 2310          | SOUTH            | 1650          | EAST           | EDDY   |

## Bottom Hole Location If Different From Surface

| UL or lot No.  | Section | Township    | Range         | Lot Idn | Feet from the | North/South line | Peet from the | East/West line | County |
|----------------|---------|-------------|---------------|---------|---------------|------------------|---------------|----------------|--------|
| Dedicated Acre | Joint o | r Infill Co | nsolidation ( | Code Or | der No.       |                  | · .           | <u>.</u>       | L      |

# 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



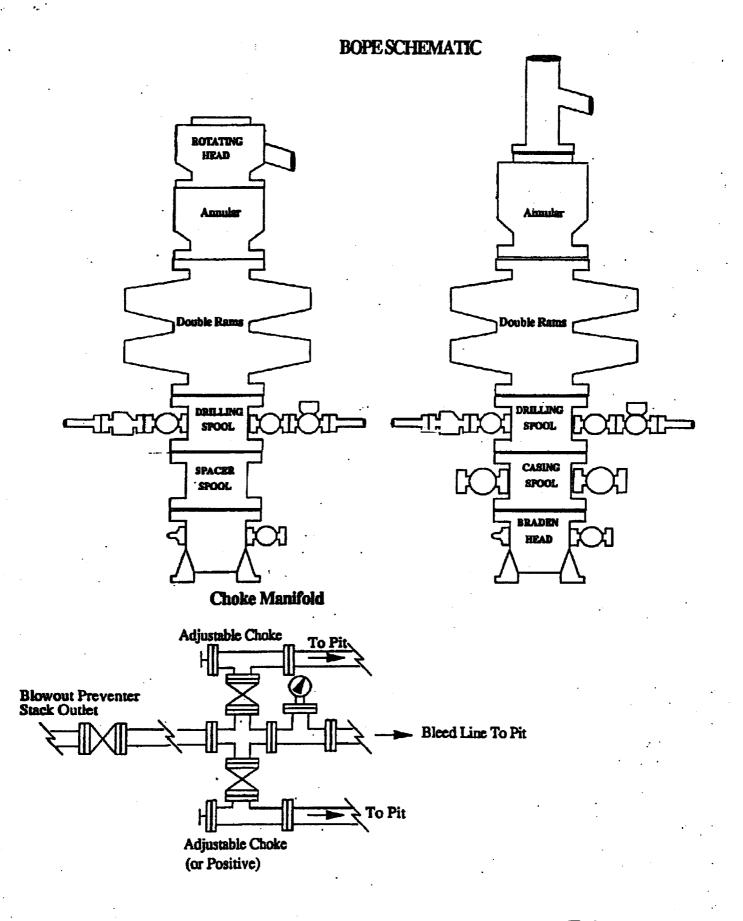
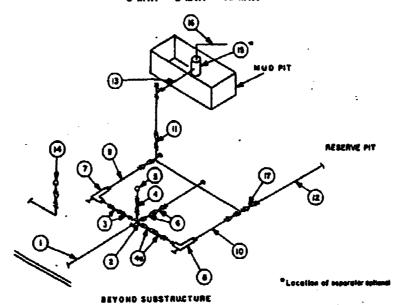


Exhibit One

# MINIMUM CHOKE MANSFOLD 3,000, 5,000 and 10,000 PSI Working Pressure

#### 3 MWP - 5 MWP - 10 MWP



|     | MINIMUM REQUIREMENTS                             |                     |         |        |          |         |            |          |         |        |
|-----|--|---------------------|---------|--------|----------|---------|------------|----------|---------|--------|
|     |  | .3,000 MWP5,000 MWP |         |        |          |         | 10,000 MWP |          |         |        |
| No. |  | I.D.                | NOMINAL | RATING | 1.0.     | NOMINAL | RATING     | LD.      | NOMINAL | RATING |
| 1   | Line from drilling spool                         |                     | 3"      | 3,000  |          | 3*      | 5,000      |          | . 3.    | 10,000 |
| 2   | Cross 3"x3"x3"x2"                                |                     |         | 3,000  |          |         | 5,000      |          |         |        |
| -   | Cross 3"x3"x3"x3"                                |                     |         |        |          |         |            |          |         | 10,000 |
| 3   | Valves(1) Gate Cl<br>Plug C(2)                   | 3-1/6"              |         | 3,000  | 3-148"   |         | 5,000      | 3-1/8"   |         | 10,000 |
| 4   | Valve Gate G                                     | 1-13/16*            |         | 3,000  | 1-13/16" |         | 5,000      | 1-13/16* |         | 10,000 |
| 40  | Valves(1)  | 2-1/16"             |         | 3,000  | 2-1/16"  |         | 5.000      | 3-1/8"   |         | 10,000 |
| 5   | Pressure Gauge                                   |                     |         | 3,000  |          |         | 5,000      |          |         | 10,000 |
| 6   | Velves Gate C<br>Plug (2)                        | 3-1/6*              |         | 3,000  | 3-1/8"   |         | 5,000      | 3-1/8*   |         | 10.000 |
| 7   | Adjustable Chate(3)                              | 2°                  |         | 1,000  | 2"       |         | 6,000      | 2        |         | 10,000 |
| 8   | Adjustable Choke                                 | 1°                  |         | 3,000  | 1*       |         | 5.000      | 5.       |         | 10,000 |
| 9   | Line   |                     | 3-      | 3,000  |          | 3*      | 6,000      |          | 3"      | 10,000 |
| 10  | Une  |                     | 2*      | 3,000  |          | 2-      | 6,000      |          | 3.      | 10,000 |
| 11  | Valves Gate []                                   | 3-1/9"              |         | 3,000  | 3-1/6*   |         | 5,000      | 3-1/8*   |         | 10,000 |
| 12  | Lines  | 1                   | 3.      | 1,000  |          | 3"      | 1,000      |          | 3*      | 2,000  |
| 13  | Lines  |                     | 3°      | 1,000  |          | 3*      | 1,000      | •        | 3.      | 2.900  |
| 14  | Remote reading compound standpips pressure gauge |                     |         | 2,000  |          |         | 8,000      | •        |         | 10,000 |
| 15  | Gas Separator                                    |                     | 2"x5"   |        |          | 275'    |            |          | 5,72,   |        |
| 16  | Line   |                     | 4"      | 1,000  |          | 4"      | 1,000      |          | 4"      | 2,000  |
| 17  | Valves Plug ()(2)                                | 3-1/8"              |         | 3,000  | 2-1/8"   |         | 5,000      | 3-1/8"   |         | 10,000 |

- (1) Only one required in Class SM.
- (2) Gate valves only shall be used for Class 10M.
- (3) Remote operated hydreutic choke required on 5,000 pai and 10,000 pai for drilling.

### **EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS**

- 1. All connections in choke manifold shall be welded, studded, flanged or Carneron clamp of comparable rating.
- 2. All franges shall be API 68 or 65X and ring gastiets shall be API RX or 6X. Use only 6X for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chakes shall be equipped with tungsten carbide sests and needles, and replacements shall be available.
- 5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to essist in regulating chokes. As an attemate with automatic chokes, a choke manifold pressure gauge shall be located on the rigition in conjunction with the standpipe pressure gauge.
- Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull plugged tees.