Form 3160-3 (August 1999) S PUB 2006 W OCD - ARTESIA

FORM APPROVED T-06-21 OMB No. 1004-0136

| | 1/2 | ARTESIA | Con | Expires Nov | ember 30, 2000 | |
|---|--------------------------------------|---------------------------|-----------------|--|-------------------------|--|
| UNITED STATES | 18 no | D - ARIESIA | ×/ | 5. Lease Serial No. | | |
| DEPARTMENT OF THE IN | NMNM 108991 | | | | | |
| BUREAU OF LAND MANG | 6. If Indian, Allottee or Tribe Name | | | | | |
| APPLICATION FOR PERMIT TO D | RILL OR RI | SIDLELT VEENTER | , | | | |
| UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANG APPLICATION FOR PERMIT TO D 1a. Type of Work: X DRILL RE | ENTER | | | 7. If Unit or CA Agreem | ent, Name and No. | |
| | | | | 8. Lease Name and We | II No. | |
| 1b. Type of Well: Oil Well Gas Well Other | Single 2 | one Multip | le Zone | GUADALUPE 8 FED 2H | | |
| 2. Name of Operator | | | | 9. API Well No. | 2 | |
| EOG Resources, Inc. 2377 | | | ···· | 30-015- | 35/23 | |
| 3a. Address | 3b. Phone N | o. <i>(include area d</i> | ode) | 10. Field and Pool, or E | xploratory | |
| P.O. Box 2267, Midland, TX 79702 | (432) 686-364 | | | Cottonwood Creek; WC, \ | | |
| 4. Location of Well (Report location clearly and in accordance of B. V.A. | | 1 11 211 | | 11. Sec., T., R., M., or B | - | |
| 70015411 8 0001551 (1/1/4) | en alla | Chill SO C | gerces. | Section 8, T16S-R24E, N | .M.P.M. | |
| At adilate 400 Fitz d-500 Fitz (O/L/1) | 8-17-06 | Subis | 411 100 | | | |
| At proposed prod. Zone 760' FNL & 660' FWL | (U/L D) | | Apprend | | | |
| 14. Distance in miles and direction from nearest town or pos | t office* | 34 St | e Ala | 12. County or Parish | 13. State | |
| 14 miles NW from Artesia | | | | Eddy | New Mexico | |
| 15. Distance from proposed* 660' | 16. No. of Ac | res in lease | | g Unit dedicated to this v | vell | |
| location to nearest | 1,280 | | N/2 | | | |
| property or lease line, ft. | | | | | | |
| (Also to nearest drig. Unit line, if any) 18. Distance from proposed location* 1,120' | 19. Propose | d Danth | 20 BI M/BI | A Bond No. on file | | |
| to nearest well, drilling, completed | 5,100' TVD | u Depui | NM2308 | A Bond No. on the | | |
| applied for, on this lease, ft. | 8,170' TMD | 1 | | | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc) | 22. Approxim | ı nate date work wi | ll start* | 23. Estimated duration | | |
| Gr 3652' | 8/1/2006 | | | 30 days | | |
| | 24. A | ttachments | | | | |
| The following completed in accordance with the requirements of C | nshore Oil an | Gas Order No. 1, | shall be attacl | ned to this form: | | |
| 4. Mollinist cartified by a registered suprever | | A Bond to source | the eneration | s unless covered by an exi | sting hand on file (see | |
| Well plat certified by a registered surveyor. A Drilling Plan. | | Item 20 above | • | s unless covered by an exi | sting bond on the (see | |
| A Surface Use Plan (if the location is on National Forest Sytem | Lands the | 5. Operator certi | • | | | |
| SUPO shall be filed with the appropriate Forest Service Office) | Lando, ino | 1 | | formation and/or plans as may be required by the | | |
| Co. Condition that are appropriate research to the cities continue | | authorized off | - | mater and plants as in | a, bo roquiros by air | |
| 25. Signature A Mis- | Name (Printe | d/Typed) | | Date | | |
| Dry D. /Wan | Donny G. C | | | 6/9/200 | 6 | |
| Title | * | | | | | |
| SR ROW LEASE OPERATIONS REPRESENTATIVE | | | | | | |
| Approved by (Signature) Tony J. Herrell | Name (Printe | S Tony J | . Herrel | Date AUG | 2 5 2006 | |
| FIELD MANAGER | Office | CARLS | BAD F | IELD OFFICE | | |
| Application approval does not warrent or certify the applicant holds legal or | equitable title to | those rightes in the | uhion looco w | nich would optite alte applicant | to conduct | |

Application approval does not warrant or certify the applicant holds legal or equitable title to those rightes in the subject lease which would entitle the applicant to conduct operations theron.

APPROVAL FOR 1 YEAR

Conditions of approval, if any, are attached

ALLICOL I 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 States any false, fictitious or fraudulent statements or representations as to any matter within its jurisidiction.

*(Instructions on reverse)

Witness Surface Casing

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction. Roswell Controlled Water Basin

Approval subject to General requirements and Special stipulations Attached

District 1 State of New Mexico Form C-102 1625 N. French Dr., Hobbs, NM 88240 Revised October 12, 2005 Energy, Minerals & Natural Resources Department District II Submit to Appropriate District Office 1301 W. Grand Avenue, Artesia, NM 88210 OIL CONSERVATION DIVISION State Lease- 4 Copies District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 Fee Lease-3 Copies District N Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505 ☐ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Name Pool Code COTTONWOOD CREEK; WC, WEST (GAS) 75260 Property Code Property Name Well Number GUADALUPE 8 FED. 2H 35 686 Operator Name Elevation 7377 EOG RESOURCES, INC. 3656° Surface Location Range UL or lot no. Section Township Lot Idn | Feet from the | North/South line | Feet from the East/West line 16 SOUTH 24 EAST, N.M.P.M. 560 **NORTH** 460 **EAST** Bottom Hole Location If Different From Surface Township Lot Idn Feet from the North/South line Feet from the UL or lot no. Section Range East/West line D 8 16 SOUTH 24 EAST, N.M.P.M. 760 **NORTH** 660 WEST Joint or Infill Consolidation Code Order No. Dedicated Acres 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. OPERATOR CERTIFICATION NMNM 108991 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization 660' AZ = 270°03° 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. PRODUCING AREA 8/17/2006 Date Donny G. Glanton PROJECT AREA tunnununudakunununununun kuninininininin Printed Name BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 Y=706607.3 X=412926.9 SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=706803.8 X=417110.6 ENTRY POINT NEW MEXICO EAST NAD 1927 Y=706603.9 X=416910.1 SURVEYOR CERTIFICATION I hereby ce LAT.: N 32.9423235 LONG.: W 104.6176832 LAT.: N 32.9422351 LONG.: W 104.6041757 LAT.: N 32.9427857 LONG.: W 104.6035236 shown on otes of actually surveys funder my supervision me is the and correct field notes me or

Signature and Geogginal AND Professional Society

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Certificate Number WO# 060207WL-b2 (LA)

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EOG RESOURCES, INC. Guadalupe 8 Fed No. 2H Eddy Co. NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Quaternary Alluvium

0-200

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

| San Andres | 665' |
|--------------|--------|
| Glorieta | 2,035' |
| Tubb | 3,326' |
| Abo Shale | 4,015' |
| Wolfcamp Pay | 5,065' |

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

| Quanterary Alluvium | 0- 200' | Fresh Water |
|---------------------|---------|-------------|
| San Andres | 665' | Oil |
| Glorieta | 2,035' | Oil/Gas |
| Tubb | 3,326' | Oil/Gas |
| Abo/Wolfcamp Pay | 5,065' | Gas |

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 8.625" casing at 900' and circulating cement back to surface.

4. CASING PROGRAM

| Hole Size | Interval | OD Casing | Weight | Grade Jt. Co | onn. Type | |
|-----------|----------|-----------|--------|--------------|-----------|--|
| 12.250" | 0-900' | 8.625" | 32# | J-55 | LT&C | |
| 7.875" | 0-8,170' | 5.5" | 17# | N-80 | LT&C | |

Cementing Program:

8-5/8" Surface Casing: Cem

Cement to surface with 150 sx Prem Plus, 3% Econolite 1/4 pps Flocele, 2% Calcium Chloride,

WITHESS 175 s

175 sx Prem Plus, 2% Calcium Chloride, .25#/sx

Flocele

5-1/2" Production:

Cement with 500sx Interfill C,+ 0.25ppm Flocele;

400 sx Premium Cement, 100% Acid Soluble Additive, + 0.6% Halad-344 + 0.8% Econolite+

0.2% HR-55.

EOG RESOURCES, INC. Guadalupe 8 Fed No. 2H Eddy Co. NM

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2. as follows:

Under Surface – 3M System

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of brine, cut brine, and polymer mud system. The applicable depths and properties of this system are as follows:

| | | Wt | ViscositWaterloss | | | |
|---------------|-------------------|--------------|-------------------|-------------|--|--|
| <u>Depth</u> | <u>Type</u> | <u>(PPG)</u> | (sec) | <u>(cc)</u> | | |
| 0-900' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c | | |
| 900'-4400' | Cut Brine | 8.8-9.2 | 28-34 | N/c | | |
| 4,400'-5,100' | Cut Brine | 8.8-9.2 | 28-34 | 10-15 | | |
| 4,468'-8,170' | Polymer (Lateral) | 9.0-9.4 | 40-45 | 10-20 | | |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

8. LOGGING, TESTING AND CORING PROGRAM:

Electric logging will consist of GR-Dual Laterlog and GR-Compensated Density-Neutron from +/-900' to TVD.

Possible sidewall cores based on shows.

EOG RESOURCES, INC. Guadalupe 8 Fed No. 2H Eddy Co. NM

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom hole temperature (BHT) at TD is 105 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3000 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG RESOURCES, INC. Guadalupe 8 Fed No. 2H Eddy Co. NM

SURFACE USE AND OPERATIONS PLAN Surface is owned by the BLM

<u>Directions to Well Site</u>: From the Intersection of U.S. Hwy 82 & U.S. Hwy 285 in Artesia, NM, Go north on Hwy 285 for 7.8 miles, Thence west on County Road No. 121 (Funk Road) for 7.0 miles, Thence south on County Road No. 95 (Joy Road) for 0.7 miles, Thence west on existing lease road constructed to the Guadalupe 8 Federal No. 1.

1. EXISTING ROADS:

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Utilize existing lease road constructed to the Guadalupe 8 Federal No. 1. (NM-115683)

2. PROPOSED ACCESS ROAD:

From the Guadalupe 8 Federal No. 1, construct an additional 1,120' of additional lease road north to the Subject well. See Exhibit No. 2

No turnouts necessary.

EOG will construct a cattleguard where the access road crosses fence south of the location. EOG will construct the access road pursuant to BLM requirements where it crosses the dry creek.

Surfacing material consists of native caliche to be obtained from the nearest BLM-approved caliche pit. Any additional materials required will be purchased from the dirt contractor.

3. LOCATION OF EXISTING WELLS:

Exhibit #3 shows all existing wells within a one-mile radius of this well.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

There are no existing production facilities. If production is encountered, a temporary facility will be established on the drill pad, and if warranted, a production facility would be built at a later date in the immediate area of the drill pad location. If the well is productive, the flowline will be built to the nearest pipeline.

EOG RESOURCES, INC. Guadalupe 8 Fed No. 2H Eddy Co. NM

5. LOCATION AND TYPE OF WATER SUPPLY:

Fresh water and brine water for drilling will come from commercial sources and transported to the well site by temporary water supply lines adjacent and parallel to roads.

6. PLANS FOR RESTORATION OF THE SURFACE:

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Location will be cleaned of all trash and junk to leave the well in an aesthetically pleasing condition as possible.

Any unguarded pits containing fluid will be fenced until they are dry and back filled.

After abandonment of the well, surface restoration will be in accordance with current federal laws and regulations. Location will be cleaned, and the well pad removed to promote vegetation and disposal of human waste will be complied with. Trash, waste paper, garbage and junk will be hauled to an approved disposal site in an enclosed trash trailer.

All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

ANCILLARY FACILITIES:

No airstrip, campsite, or other facilities will be built.

WELL SITE LAYOUT:

Exhibit #4 shows the relative location and dimensions of the well pad.

EOG RESOURCES, INC. Guadalupe 8 Fed No. 2H Eddy Co. NM

OTHER INFORMATION:

The area around the well site is grassland and the topsoil is sandy. The vegetation is native scrub grass.

COMPANY REPRESENTATIVES:

Permitting & Land

Mr. Donny G. Glanton
Senior ROW Lease Operations Representative
EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3642 Office

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|---|--------|----|
| | | |

Operations

| Mr. Jason LaGrega | Mr. Howard Kemp |
|----------------------------|-----------------------|
| Division Drilling Engineer | Production Manager |
| EOG Resources, Inc. | EOG Resources, Inc. |
| P.O. Box 2267 | P.O. Box 2267 |
| Midland, TX 79702 | Midland, TX 79702 |
| (432) 686-3633 Office | (432) 686-3704 Office |

CERTIFICATION:

I HEREBY CERTIFY that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Jason LaGrega

Division Drilling Engineer

DATE 6/8/2006

EOG RESOURCES, INC. Guadalupe 8 Fed No. 2H Eddy Co. NM

ATTACHMENT TO EXHIBIT #1

- 1. Wear ring to be properly installed in head.
- 2. Blow out preventer and all fittings must be in good condition, 3000 psi W.P. minimum. Exhibit #1.
- 3. All fittings to be flanged
- 4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 3000 psi W.P. minimum.
- 5. All choke and fill lines to be securely anchored especially ends of choke lines.
- 6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 7. Kelly cock on kelly.
- 8. Extension wrenches and hand wheels to be properly installed.
- 9. Blow out preventer control to be located as close to driller's position as feasible.
- 10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

Guadalupe & Fed No. 24

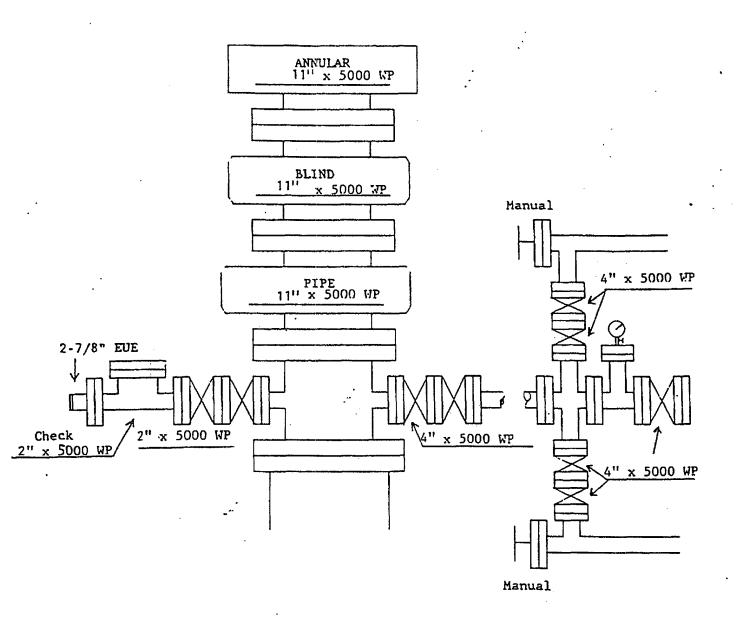
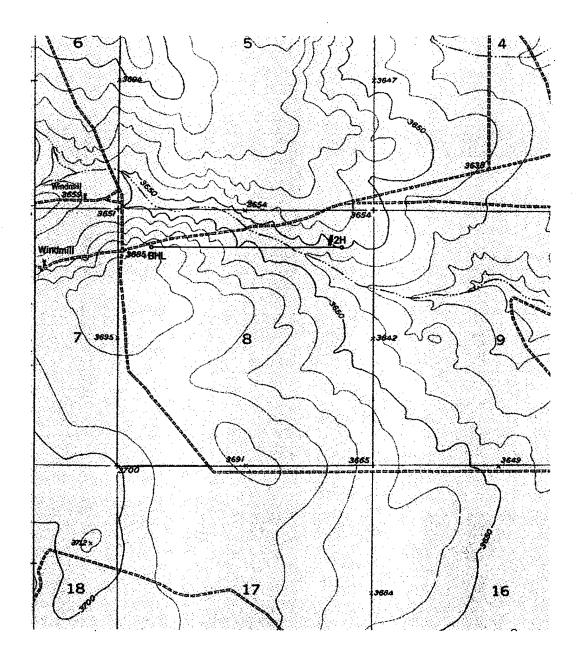


Exhibit 1

EXHIBIT "3"

| • | | | | | | | i vilit | 4 | D _ | 24-1 | | The state of the s | | • |
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LOCATION VERIFICATION MAP



SEC. 8 TWP. 16—S RGE. 24—E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 760' FNL & 660' FEL

ELEVATION 3652'

OPERATOR EOG RESOURCES, INC

LEASE GUADALUPE 8 FED #2H

U.S.G.S. TOPOGRAPHIC MAP

HOPE NE, NM

.

CONTOUR INTERVAL = 10 FEET SCALE 1" = 2000'



Asel Surveying & Consulting

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 505-393-9146

Statement Accepting Responsibility For Operations

Operator Name:

EOG Resources, Inc.

Street or Box:

P.O. Box 2267

City, State: Zip Code:

Midland, TX 79702

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.: NMNM 108991

Legal Description of Land: Section 8, T-16-S; R-24-E, N.M.P.M., Eddy Co. NM

Formation:

Wolfcamp

Bond Coverage:

Nationwide

BLM Bond File No.: NM2308 with endorsement to State of NM

Authorized Signature:

Donny G. Glantor

Title: Agent

Date: 6/5/2006

CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

EOG Resources. Inc.

Well Name & No.

Guadalupe 8 Federal #2H

SH Location: BH Location:

560 769' FNL, 660' FEL, Section 8, T. 16 S., R. 24 E., Eddy County, New Mexico 760' FNL, 660' FWL, Section 8, T. 16 S., R. 24 E., Eddy County, New Mexico

Lease:

NM-108991

Lease. 1414-100331 AM Attacked SIN datad 5-1706 CSA I. DRILLING OPERATIONS REQUIREMENTS:

- 1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220. (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:
 - A. Well spud
 - B. Cementing casing: 8-5/8 inch 5-1/2 inch
 - C. BOP tests
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15-day time frame.
- 4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

II. CASING:

- 1. The 8-5/8 inch surface casing shall be set at approximately 850 feet and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. The minimum required fill of cement behind the 5-1/2 inch production casing is to be sufficient to reach at least 500 feet above the top of the uppermost hydrocarbon productive interval.

III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13-3/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 2000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.