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OCD-HOBBS

Form 3160-3
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

5. Lease Serial No.
NMNM97892

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☐ DRILL ☒ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

8. Lease Name and Well No. **<35885>**
Federal BM 1

2. Name of Operator
Devon Energy Production Company, LP

9. API Well No.
30-025-27003

3a. Address **20 North Broadway
Oklahoma City, Oklahoma 73102-8260**

3b. Phone No. (include area code)
405-552-8198

10. Field and Book or Exploratory
W. Adams

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface **1980 FNL & 1980 FWL; SE/NW**
At proposed prod. zone **1980 FNL & 1980 FWL; SE/NW**

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 25 T24S R32E

14. Distance in miles and direction from nearest town or post office*
Approximately 20 miles west of Jal, NM

12. County or Parish
Lea County

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

16. No. of acres in lease
640 acres

17. Spacing Unit dedicated to this well
320 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth
16000'

20. BLM/BIA Bond No. on file
CO-1104

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3551' GL

22. Approximate date work will start*
07/15/2006


23. Estimated duration
45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

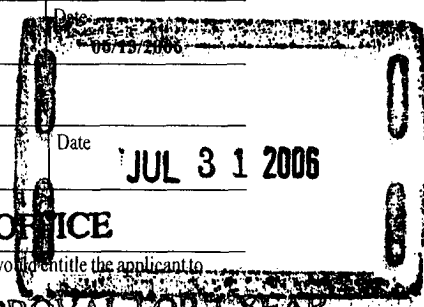
25. Signature 
Title **Sr. Staff Engineering Technician**

Name (Printed/Typed)
Norvella Adams

Approved by (Signature) **/s/ Don Peterson**
Title **FIELD MANAGER**

Name (Printed/Typed)
/s/ Don Peterson

Office **CARLSBAD FIELD OFFICE**



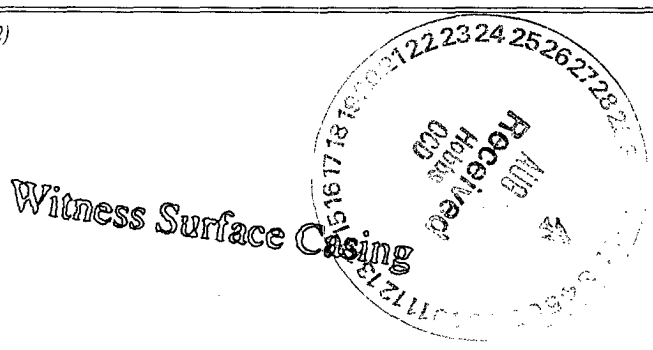
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

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 jurisdiction.

*(Instructions on page 2)



**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED**

N. MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

OGRID # 6317

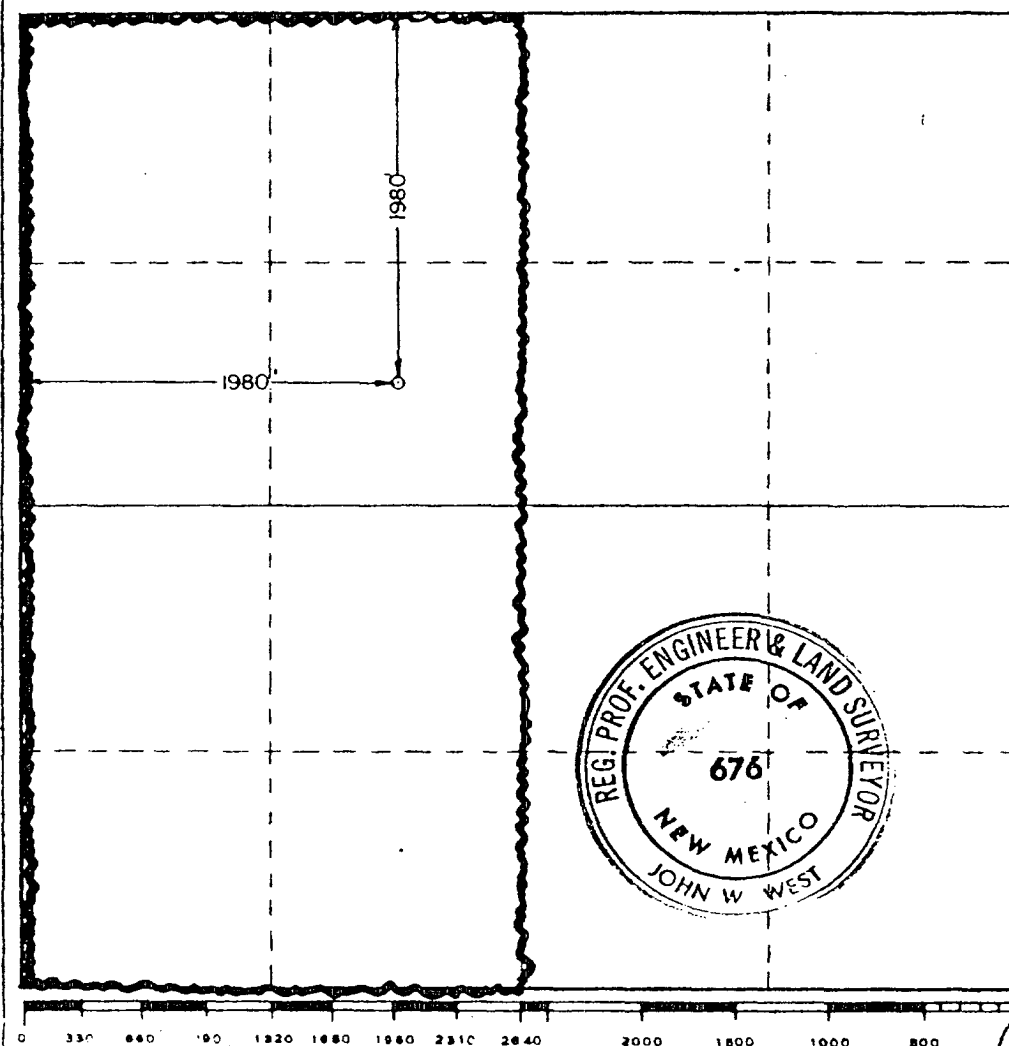
Operator Devon Energy Production Company, LP			Lease Federal BM		Well No. 1
Tract Letter F	Section 25	Township 24 South	Range 32 East	County Lea	
Actual Footage Location of Well: 1980 feet from the North line and 1980 feet from the West line					
Ground Level Elev. 3551.6	Producing Formation Wolfcamp		Pool	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Norvella Adams
Position
Sr. Staff Eng. Tech.
Company
Devon Energy Production Co., LP
Date
June 9, 2006

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 knowledge and belief.

Date Surveyed
June 16, 1980

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6663
Ronald J. Eidson 3239

**WOLFCAMP REENTRY
FEDERAL BM #1**

PROCEDURE

1. MIRU PU. NU WH & NU BOP. RIH w/9 1/2" bit & DC's & drill out surf plug, cmt plug from 640-740' & top of plug @ 2950' to csg cut off. POOH w/tbg, DC's, & bit.
2. RIH w/flat bottom mill to dress off csg cut. POOH w/mill.
3. RIH w/bowl assembly & 7 5/8" 33.7# N-80 csg. Tie back to casing.
4. RIH w/6 1/2" bit, DC's, & 2 7/8" tbg to 3000'. Drill out plug from 3000-3050'. RIH to plug at 4885'. Drill out cmt & CIBP & RIH to 5200'. Estab PIR into Delaware perms @ 4990-5084'. POOH.
5. RIH w/7 5/8" cmt retainer & 2 7/8" tbg to 4940'. Set retainer & squeeze Delaware perms w/150 sx Cl C cmt. Sting out of retainer & reverse tbg clean. POOH.
6. RIH w/6 1/2" bit, DC's, & 2 7/8" tbg to 4940'. Drill out retainer & cmt. Test csg & squeeze to 500 psi. RIH to plug at 8935'. Drill out cmt & CIBP & RIH to 9500'. Estab PIR into Bone Spring perms @ 9022-9370'. POOH.
7. RIH w/7 5/8" cmt retainer & 2 7/8" tbg to 8970'. Set retainer & squeeze Bone Spring perms w/200 sx Cl C cmt. Sting out of retainer & reverse tbg clean. POOH.
8. RIH w/6 1/2" bit, DC's, & 2 7/8" tbg to 8970'. Drill out retainer & cmt. Test csg & squeeze to 500 psi. RIH to liner top at 11,304'. POOH.
9. RIH w/3 3/4" bit, DC's, 2 3/8", & 2 7/8" tbg to plug @ 11,315'. Drill out cmt & CIBP & RIH to 12,500'. Estab PIR into Bone Spring perms @ 12,400-20'. POOH.
10. RIH w/4 1/2" cmt retainer, 2 3/8", & 2 7/8" tbg to 12,320'. Set retainer & squeeze Bone Spring perms w/100 sx Cl H cmt. Sting out of retainer & reverse tbg clean. Circ hole w/2% KCl. POOH.
11. RIH w/3 3/4" bit, DC's, 2 3/8", & 2 7/8" tbg to 12,320'. Drill out retainer & cmt. Test csg & squeeze to 500 psi. RIH to plug at 13,125'. Drill out cmt & CIBP & RIH to 14,120'. Circ hole w/2% KCl. POOH.
12. RIH w/4 1/2" pkr, 2 3/8" P-110, & 3 1/2" P-110 tbg to 13,230'. Pickle tbg w/500 gal 15% NEFe.
13. Spot 2 bbls 15% NEFe acid across perms. PU to 13,110'. Acidize zone @ 3-5 BPM w/20,000 gal 15% NEFe acid dropping 60 ball sealers evenly spaced. SD 15 min & flow back acid.
14. RU swab & swab test zone.

If unsuccessful, squeeze off zone w/100 sx Cl H via retainer @ 12,320' & continue w/procedure.

15. RIH w/3 3/4" bit, DC's, 2 3/8", & 2 7/8" tbg to 12,320'. Drill out retainer & cmt. Test csg & squeeze to 500 psi. Circ hole w/2% KCl. POOH.
16. RU WL & RIH w/3 3/8" gun & perf Wolfcamp 1 SPF 13,700-14,100' / RD WL.
17. RIH w/4 1/2" pkr, 2 3/8" P-110, & 3 1/2" P-110 tbg to 14,100'.
18. Spot 5 bbls 15% NEFe acid across perfs. PU to 13,600'. Acidize zone @ 3-5 BPM w/5,000 gal 15% NEFe acid dropping 60 ball sealers evenly spaced. SD 15 min & flow back acid.
19. RU swab & swab test zone. Evaluate for slickwater frac.
20. Set plug in pkr. Rel from on/off tool & POOH w/tbg laying down 3 1/2". RIH w/2 3/8" P-110 to pkr. Load annulus w/2% KCl w/pkr additives. Tie back into on/off tool. ND BOP & NU tree.
21. Swab FL down to 12,000'. Pull plug & swab if necessary.

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FEDERAL BM #1		Field: WILDCAT ATOKA	
Location: 1980' FNL & 1980' FWL; SEC 25-T24S-R32E		County: LEA	State: NM
Elevation: 3552 GL		Spud Date: 8/8/80	Compl Date:
API#: 30-025-27003	Prepared by: Ronnie Slack	Date: 6/8/06	Rev:

**CURRENT SCHEMATIC
Plugged & Abandoned**

20" Hole
16", 65#, H40, @ 690'
Cmt'd w/850 Sx to surf

14-3/4" Hole
10-3/4", 51#, N80 & K55, @ 4875'
Cmt'd w/2000 Sx. TOC @ 120' (Temp Survey)

DELAWARE: 4990-5008; 5024-54; 5066-84
acidized

DELAWARE: 6210-6256 Sqzd w/1250 Sx cement
TOC @ 4830' from sqz. (Temp survey)

Hole in casing; sqzd 8962-92 w/50 Sx
BONE SPRING:
9022-42; 9098-9104; 9112-22; 9124-42
9144-56; 9254-62; 9340-70

4.5" Liner Top @ 11304'

9-1/2" Hole
7-5/8", 39# & 33.7#, P110 & S95, @ 12360'
Cmt'd w/2425 Sx. TOC @ 4885' (Temp Survey)

BONE SPRING: 12400-12420
acidized/swabbed wtr

WOLFCAMP: 13212'-13228'
acidized/swabbed load wtr

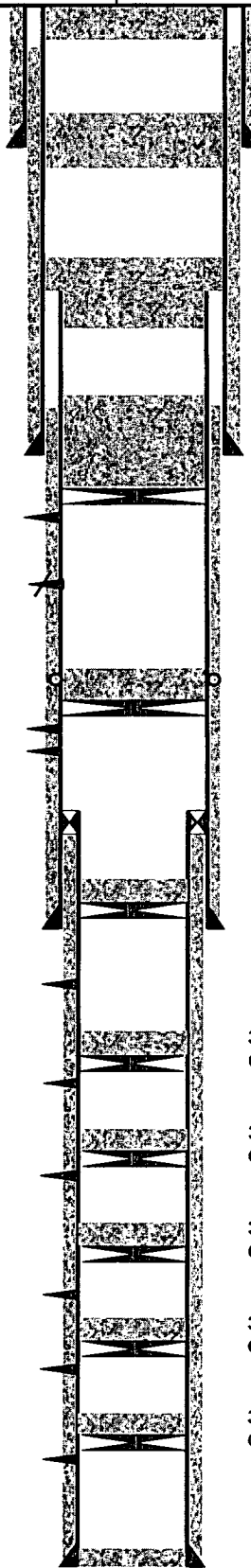
STRAWN: 14204-16; 14221-37; 14251-66
acidized. Swab, rec wtr

Perfs 14902' - 14916'
acidized/no show. Reperfed & acidized/no show

ATOKA: 15070' - 15080'
acidized/no show

MORROW: 15624-15672
acidized w/7.5%

6-1/2" Hole
4-1/2", 15.1#, P110, @ 15972'
Cmt'd w/560 Sx



Spot 25 Sx cement from 40' to surface

Tagged TOC @ 600'
Spot 60 Sx cement @ 740'.

Tagged TOC @ 2950'
Spot 60 Sx cement for stub plug
Cut 7-5/8" casing @ 3000'. POOH.

25 Sx cement on CIBP. Calc TOC @ 4802'
CIBP @ 4940'

35' cement. PBD @ 8935'
CIBP @ 8970'

35' cement. PBD @ 12315'
CIBP @ 12350'

35' cement. PBD @ 13125'
CIBP @ 13160'

35' cement. PBD @ 14119'
CIBP @ 14154'

35' cement. PBD @ 14465'
CIBP @ 14500'

35' cement. PBD @ 14995'
CIBP @ 15030'

35' cement on top
CIBP @ 15500'

TD @ 15973

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FEDERAL BM #1		Field: WILDCAT ATOKA	
Location: 1980' FNL & 1980' FWL; SEC 25-T24S-R32E		County: LEA	State: NM
Elevation: 3552 GL		Spud Date: 8/8/80	Compl Date:
API#: 30-025-27003	Prepared by: Ronnie Slack	Date: 6/8/06	Rev:

**PROPOSED RE-ENTER P&A WELL &
COMPLETE IN WOLFCAMP**

20" Hole
16", 65#, H40, @ 690'
Cmt'd w/850 Sx to surf

14-3/4" Hole
10-3/4", 51#, N80 & K55, @ 4875'
Cmt'd w/2000 Sx. TOC @ 120' (Temp Survey)

DELAWARE: 4990-5008; 5024-54; 5066-84
acidized

DELAWARE: 6210-6256 Sqzd w/1250 Sx cement
TOC @ 4830' from sqz. (Temp survey)

Hole in casing; sqzd 8962-92 w/50 Sx
BONE SPRING:
9022-42; 9098-9104; 9112-22; 9124-42
9144-56; 9254-62; 9340-70

4.5" Liner Top @ 11304'

9-1/2" Hole
7-5/8", 39# & 33.7#, P110 & S95, @ 12360'
Cmt'd w/2425 Sx. TOC @ 4885' (Temp Survey)

BONE SPRING: 12400-12420
acidized/swabbed wtr

WOLFCAMP: 13212-13228'
acidized/swabbed load wtr

Proposed:
Perf Wolfcamp 13700-14100
Acidize, swab, test, eval for frac

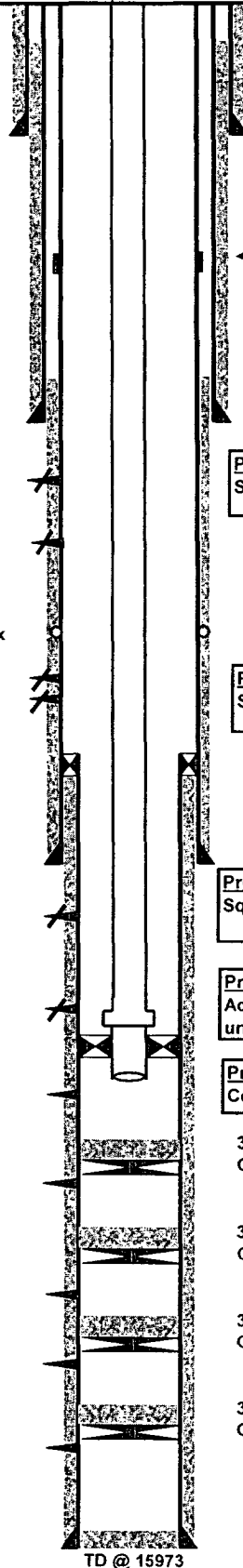
STRAWN: 14204-16; 14221-37; 14251-66
acidized. Swab, rec wtr

Perfs 14902' - 14916'
acidized/no show. Reperfed & acidized/no show

ATOKA: 15070' - 15080'
acidized/no show

MORROW: 15624-15672
acidized w/7.5%

6-1/2" Hole
4-1/2", 15.1#, P110, @ 15972'
Cmt'd w/560 Sx



Proposed:
Tie back 7-5/8" casing cut at 3000' to surface
w/7-5/8", 33.7#, N80.

Proposed:
Sqz Delaware perfs 4990-5084 w/150 Sx CI C. Test Sqz.

Proposed:
Sqz Bone Spring perfs 9022-9370 w/200 Sx CI C. Test Sqz.

Proposed:
Sqz Bone Spring perfs 12400-20 w/100 Sx CI H. Test Sqz.

Proposed:
Acidize & re-test Wolfcamp perfs 13212-28'. If
unsuccessful, sqz w/100 Sx CI H

Proposed:
Complete w/2-3/8" prod tubing & 4-1/2" packer

35' cement. PBD @ 14119'
CIBP @ 14154'

35' cement. PBD @ 14465'
CIBP @ 14500'

35' cement. PBD @ 14995'
CIBP @ 15030'

35' cement on top
CIBP @ 15500'

TD @ 15973

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: DEVON ENERGY PRODUCTION COMPANY, LP
Well Name & No. 1 – FEDERAL BM
Location: 1980' FNL & 1980' FWL – SEC 25 – T24S – R32E – LEA COUNTY
Lease: NM-97892

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

THIS IS A RE-ENTRY ON A PLUGGED WELL – CASING IS IN PLACE AS FOLLOWS: 16" csg set @ 690' – 10-3/4" csg set @ 4875' – 7-5/8" csg set @ 12360' – 4-1/2" liner at 11304'-15972' - DRILL OUT PLUGS & PERF WOLFCAMP @ 13700'-14100'.

- A. Spudding
- B. 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. 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 10-3/4 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 5000 psi.

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.
- BOPE must be tested prior to drilling into the Wolfcamp Formation by an independent service company.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp Formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

1. Recording pit level indicator to indicate volume gains and losses.
2. Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
3. Flow-sensor on the flow line to warn of abnormal mud returns from the well.