If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction. (August 1999) **UNITED STATES**

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

OMB No. 1004-0136 Expires November 30, 2000

5. Lease Serial No.

NM-18	031
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APPLICATION FOR PERMIT TO I	DRILL OR REENTER Q	23	6. If Indian, Allottee or Tribe		
1a. Type of Work: X DRILL R	EENTER CO. S.	4567	7. If Unit or CA Agreement, Not Applica	Name and No.	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8	8. Lease Name and Well No.		
b. Type of Well: Oil Well Gas Other Well	Single Zone SI to SI	Multiple Zone	Huckabay TJ Federa	I #7(12385)	
2. Name of Operator			9. API Well No.		
Yates Petroleum Corporation 25575			10-005	<u>-6387</u> 5	
3A. Address 105 South Fourth Street	3b. Phone No. (include area cod	e)	10. Field and Pool, or Explor	atory	
Artesia, New Mexico 88210	(505) 748-147	' 1	Rock School H	ivse; Wolfe	
4. Location of Well (Report location clearly and in accordance with a	ny State requirements.*)		11. Sec., T., R., M., or Blk, a	nd Survey or Area 4	
At surface 660' FNL and 7		Section 17, T8	S-R26E		
	as above			T	
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State	
Approximately twenty (20) miles northeast of Ro			Chaves County	NM	
I5. 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 2387.53	17. Spacing Ur	nit dedicated to this well 320 acres		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 6100'	20. BLM/BIA	Bond No. on file NM-2811	······································	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will	start*	23. Estimated duration		
3686' GL	ASAP		30 days		
	24. Attachments	ROSWELL	CONTROLLED WATER BASIN		
The following, completed in accordance with the requirements of Onsh	ore Oil and Gas Order No. 1, shall b	e attached to this	form:		
1. Well plat certified by a registered surveyor.	4. Bond to cove	er the operations	s unless covered by an existing t	oond on file (see	
2. A Drilling Plan.	Item 20 abov	re).			
3. A Surface Use Plan (if the location is on National Forest System Lar	nds, the 5. Operator cert	ification.			
SUPO shall be filed with the appropriate Forest Service Office.	6. Such other si authorized of	•	nation and/or plans as may be re	quired by the	
25. Rignature	Name (Printed/Typed)		Date		
Wolferd. Callon O	Debbie L. Caffall		! 1	0/20/2006	

Regulatory Agent

Regulatory Agent

Approved by (Signature)

/S/LARRY D. BRAY

Name (Printed/Typed) S/LARRY D. BRAY

Nov 2 1 2006

Title

Assistant Field Manager, **Lands And Minerals**

ROSWELL FIELD OFFICE

APPROVED FOR 1 YEAR

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.

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 reverse)

Previously Approved

C-144 attached

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

WITNESS SURFACE CASING

State of New Mexico

gy, Minerals & Natural Resources Departme.

Form C-102 Revised August 15, 2000

A South First, Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, N 7410

District IV

OIL CONSERVATION DIVISION 1220 South St. Francis Ds. 53

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

	API Number			Pool Code		REAGE DEDIC	³ Pool Na	ime	
⁴ Property	Code	· · · · · · · · · · · · · · · · · · ·		7111	5 Property	CC 13010	el Heise;	Wolfcam	Well Number
		Huckabay TJ Federal							7
7 OGRII	No.	Operator Name					, Elevation		
0255	75	Yates Petroleum Corporation						3686	
					¹⁰ Surface	Location			
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	17	85	26E		660	North	710	West	Chaves

UL or let no. Lot Idn North/South line East/West line Section Feet from the Feet from the County 12 Dedicated Acres ¹³ Joint or Infili ¹⁴ Consolidation Code 15 Order No. 320 N/2

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						
710	NM-18031	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief: Significant				
		Robert Asher Printed Name Regulatory Agent Title 09/01/2004 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. Dete of Survey				
		Signature and Seal of Professional Surveyor: Refer to Original Plat Cartificate Number				

YATES PETROLEUM CORPORATION Huckabay "TJ" Federal #7

Huckabay "TJ" Federal #7 660' FNL and 710' FWL Section 17-T8S-R26E Chaves County, New Mexico

1. The estimated tops of geologic markers are as follows:

San Andres	675'	Cisco	5340'
Glorieta	1730'	Penn-Clastics	5425'
Yeso	1835'	Mississippian5675'	
Tubb	3305'	Siluro-Devonian	5825'
Abo	4050'	Basement	5950'
Wolfcamp	4705'	TD	6100'

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water:

250'-350'

Oil or Gas: All potential formations.

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 2000# BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings, which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- 4. THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: (All New)

Hole Size	Casing Size	Wt./Ft	<u>Grade</u>	Coupling	Interval	Length
12 1/4"	8 5/8"	24#	J-55	ST&C	0-1000'	Length WITNESS
7 7/8"	5 1/2"	15.5#	J-55	ST&C	0-6100'	6100'

1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, and Tensile Strength 1.8

Huckabay "TJ" Federal #7 Page 2

B. CEMENTING PROGRAM:

Surface Casing:

Cement with 300 sx Lite "C" (YLD 2.0 WT 12.5). Tail in with

200 sx "C" + 2% CaCl2 (YLD 1.33 WT 15.6).

Production Casing:

400 sx Pecos Lite "C" (YLD 1.34 WT 13). TOC 3500'.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	Viscosity	Fluid Loss
0-1000'	FW GEL/Paper/LCM	8.6-9.6	32-36	N/C
1000'-3970'	Brine	10.0-10.2	28	N/C
3970'-TD	Starch/Salt Gel	9.3-10.2	32-40	<6CC

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. **EVALUATION PROGRAM:**

Samples: 10' samples out from under surface casing.

Logging: CNL/LDT/NGT, TD to surface casing, w/ GR/CNL TD to surface, DLL/MSFL TD

to surface casing, BHC Sonic TD to surface casing; FMI TD - top of Wolfcamp.

Coring: Sidewall DST's: None

7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

Anticipated BHP:

From: 0 TO: 10000 Anticipated Max. BHP: 6100' From: 1000' TO:

400 PSI Anticipated Max. BHP: 2500 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None Anticipated

Maximum Bottom Hole Temperature: 110 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 15 days to drill the well with completion taking another 15 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Huckabay "TJ" Federal #7 660' FNL & 710' FWL Section 17-T8S-R26E Chaves County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed well site is located approximately 20 miles northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A. An application for off-lease ROW will be filed to amend NM-53030

DIRECTIONS:

Go east of Roswell, NM on Hwy 70 for approximately 14 miles to Aztec Road. Turn left, (north) and go approximately 2.1 miles to an existing pipeline road. Turn left (west) and go thru gate for approximately 0.3+ of a mile. The new road will start here and go SW down power line to NW corner of the pad.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 1150' in length from the point of origin to the northwest corner of the drilling pad.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The new road will be bladed with drainage on both sides. No traffic turnout will be built.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.
- F. One cattle guard will be needed.

3. LOCATION OF EXISTING WELL:

- A. There is drilling activity within a one-mile radius of the well site.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed well site.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.

Huckabay "TJ" Federal. #7 Page 2 \

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources, possibly in Roswell, and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

6. SOURCE OF CONSTRUCTION MATERIALS:

The dirt contractor will be responsible for finding a source of material for construction of road and pad and will obtain any permits which may be required.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not approved.

8. ANCILLARY FACILITIES: NONE

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach. Note: Pad rotated to parallel the power lines and pits to the SE.
- B. The reserve pits will be plastic lined. Yates Petroleum Corporation is in full compliance with the OCD General Plan for Drilling Pits approved on April 15, 2004.
- C. A 400' x 400' area has been staked and flagged.

10. PLANS FOR RESTORATION:

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the well site in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level after they have evaporated and dried.

Huckabay "TJ" Federal #7 Page 3

11. SURFACE OWNERSHIP: Federal Surface administrated by the Roswell BLM Field Office.

12. OTHER INFORMATION:

- A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, and historical and cultural sites.
- B. The primary surface use is for grazing.

13. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval: B. Debbie Caffall, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

Through Drilling, Completions & Prod. Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

14. 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 Yates Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

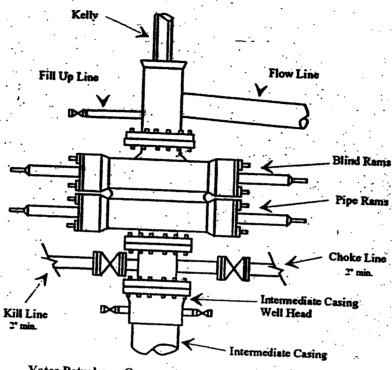
10/20/06

Regulatory Agent



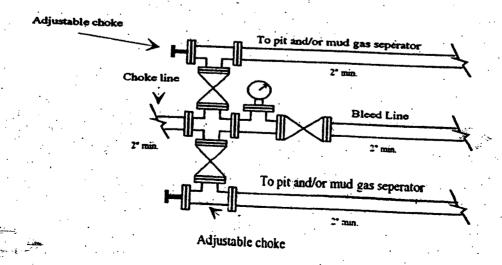
Yates Petroleum Corporation

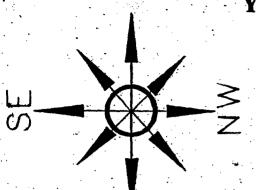
Typical 2,000 psi Pressure System
Schematic
Double Ram Preventer Stack



Yates Petroleum Corporation Huckabay "TJ" Federal #7 660' FNL & 710' FWL Section 17-T8S-R26E Chaves County, New Mexico Exhibit "B"

Typical 2,000 psi choke manifold assembly with at least these minimun features



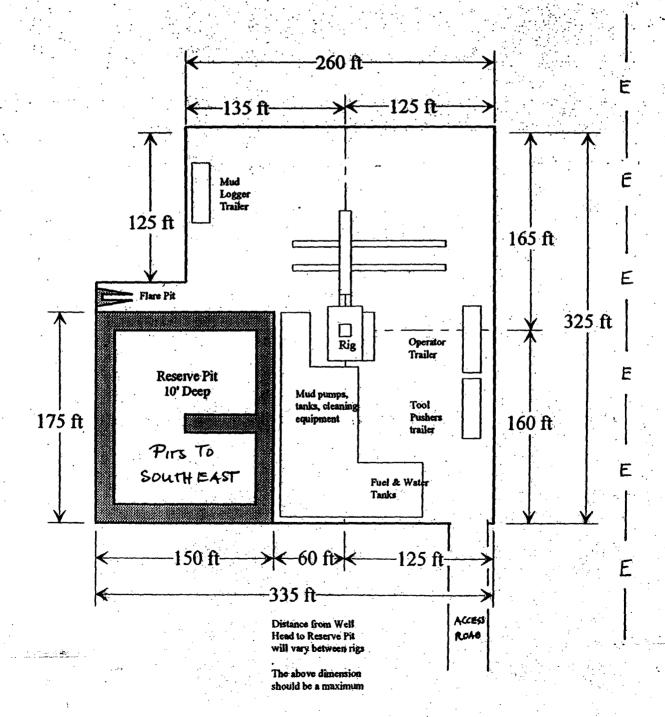


Yates Petroleum Corporation Location Layout for Permian Basin

Up to 12,000'

Yates Petroleum Corporation

Huckabay "TJ" Federal #7 660' FNL & 710' FWL Section 17-T8S-R26E Chaves County, New Mexico Exhibit "C"





United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201

EXHIBIT B

1 of 8 pages

WELL DRILLING REQUIREMENTS

OPERATORS NAME: Yates Petroleum Corporation LEASE NO.: NM-18031

WELL NAME & NO: Huckabay "TJ" Federal #7

QUARTER/QUARTER & FOOTAGE: NW1/NW1/4 - 660' FNL & 710' FWL

LOCATION: Section 17, T. 8 S., R. 26 E., NMPM

COUNTY: Chaves County, New Mexico

I. GENERAL PROVISIONS:

A. The operator has the right of administrative review of these requirements pursuant to 43 CFR 3165.1(a).

B. The operator shall hereafter be identified as the holder in these requirements. The Authorized Officer is the person who approves the Well Drilling Requirements.

II. WELL PAD CONSTRUCTION REQUIREMENTS:

- A. The BLM shall administer compliance and monitor construction of the access road and well pad. Notify <u>Richard G. Hill</u> at least <u>3</u> working days (72 Hours) prior to commencing construction of the access road and/or well pad. Roswell Field Office number (505) 627-0247.
- B. Prior to commencing construction of the access road, well pad, or other associated developments, the holder shall provide the dirt contractor with a copy of the approved APD signature page, a copy of the location map (EXHIBIT A), a copy of pages 1 & 2 from the Well Drilling Requirements (EXHIBIT B), and a copy of the Permanent Resource Road Requirements (EXHIBIT D).
- C. The holder shall stockpile the topsoil from the surface of the well pad for reclamation purposes. The topsoil on the **Huckabay "TJ" Federal #7** well pad is approximate <u>6</u> inches in depth. Approximately <u>800</u> cubic yards of topsoil shall be stockpiled on the <u>West</u> corner of the well pad, opposite the reserve pit. Upon reclamation of the well pad, the topsoil stockpile shall be redistributed over the disturbed areas. See Well Drilling Requirements VI. Seeding Requirements for reclamation of the well pad.

D. Reserve Pit Requirements:

- 1. The reserve pit shall be constructed 175' X 150' on the Southeast side of the well pad. SEE Exhibit A
- 2. Upon reclamation of the reserve pit, the impervious, reinforced, synthetic or fabricated <u>12</u> mil in thickness liner shall be used to encapsulate the reserve pit cuttings.
- b. The dried cuttings in the reserve pit shall be buried a minimum depth of three (3) feet below ground level.
- c. The reserve pit area shall be covered with a three (3) feet minimum cap of clean soil or like material that is capable of supporting native plant growth. Once the reserve pit contents have been capped, the cap shall not be disturbed without NMOCD approval.
- d. Should the cuttings in the reserve pit not meet the three (3) feet below ground level depth, the excess contents shall be removed from the reserve pit until the required minimum depth of three (3) feet below ground level requirement has been met. The excess cuttings shall be removed from the well location and shall be properly disposed of at an authorized disposal site.
- e. Contact Randy Legler at (505) 627-0215, three days before commencing the reserve pit reclamation.

- 3. The reserve pit shall be fenced on three (3) sides during drilling operations. The fourth side shall be fenced immediately upon rig release.
- 4. The reserve pit shall be constructed so as not to leak, break, or allow discharge of drilling muds. Under no circumstances will the reserve pit be cut to drain drilling muds on the terrain.
- 5. The reserve pit shall not be located in any natural drainage.
- 6. The reserve pit shall be equipped to deter entry by birds, bats, other wildlife, and livestock, if the reserve pit contains any oil and/or toxic fluids.
- 7. Drilling muds shall be properly disposed of before the reserve pit is reclaimed. Drilling muds can be allowed to evaporate in the reserve pit or be removed and transported to an authorized disposal site. The reserve pit shall be backfilled when dry.
- 8. Dumping of junk or trash into the reserve pit is not allowed. Junk or trash shall be removed from within the reserve pit before the reserve pit is reclaimed. Junk or trash shall not be buried in the reserve pit.

E. Federal Mineral Materials Pit Requirements:

- 1. Caliche, gravel, or other related materials from new or existing pits on Federal mineral estate shall not be taken without prior approval from the authorized officer. Contact Jerry Dutchover at (505) 627 -0236.
- 2. Payment for any Federal mineral materials that will be used to surface the access road and the well pad is required prior to removal of the mineral materials.
- 3. Mineral Materials extracted during construction of the reserve pit may be used for development of the pad and access road as needed, for the <u>Huckabay "TJ" Federal #7</u> gas well only. Removal of any additional material on location must be purchased from BLM prior to removal of any material.
- a. An optional mineral material pit may be constructed within the archaeologically cleared area. The mineral material removed in the process can be used for pad and access road construction. However, a mineral material sales contract must be purchased from the BLM prior to removal of any material.

F. Well Pad Surfacing Requirement:

The well pad shall be surfaced with <u>6</u> inches of compacted caliche, gravel, or other approved surfacing material. The well pad shall be surfaced prior to drilling operations. See <u>Permanent Resource Road Requirements</u> - EXHIBIT D - requirement #4, for road surfacing.

G. Cave Requirements:

- 1. If, during any construction activities any sinkholes or cave openings are discovered, all construction activities shall immediately cease. Contact <u>Larry Bray</u> at (505) 627-0250.
- 2. The BLM Authorized Officer will, within 24 hours of notification in "A" above, conduct an on-the-ground field inspection for karst. At the field inspection the authorized field inspector will authorize or suggest mitigating measures to lessen the damage to the karst environment. A verbal order to proceed or stop the operation will be issued at that time.

III. DRILLING OPERATION REQUIREMENTS:

A. GENERAL DRILLING 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 in sufficient time for a representative to witness:
- A. Spudding B. Cementing casing: 85/8 inch 51/2 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.

B. CASING:

- 1. The 8½ inch surface casing shall be set at 1000' 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 5½ inch intermediate casing is cement shall extend upward a minimum of 200 feet above the Glorieta Formation.

C. 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 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.
- A. The tests shall be done by an independent service company.
- B. The results of the test shall be reported to the appropriate BLM office.
- C. 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.
- D. Testing must be done in a safe workman-like manner. Hard line connections shall be required.

D. IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the <u>Wolfcamp</u> 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.