N.M. Oi	Cons. DIV-Dis	et Ó			
1301 V	V. Grand Aven				
Form 3160-3 (April 2004) GCD-ARTESIA Artes	sia, NM 88210	ue			
Form 3160-3	sia, INIVI 88270		FORM APPRC	VED	
	AC 24	\$	OMB NO. 1004		
UNITED STATES			Expires: March 3 Lease Serial No.	1,2007	
DEPARTMENT OF THE INTE BUREAU OF LAND MANAGEN	The second se	5 .	Lease Serial No. NM-10157	5	
APPLICATION FOR PERMIT TO DRILL		6.	If Indian, Allottee or Tribe		
			NA		
1a. Type of Work: X DRILL REEN	TER		If Unit or CA Agreement, $\mathcal{N} / \mathcal{A}$	Name and No	
1b. Type of Well Oil Well X Gas Well Other	Single Zone X Multiple Zo	_	Lease Name and Well No. Cooker BCB Fee	ieral #1	
2. Name of Operator			API Well No	<u></u>	
· Yates Petroleum Corporation		2	0 - 005 -	63963	
	one No. <i>(include area code)</i>	10.	Field and Pool, or Explora		
105 South Fourth Street Artesia New Mayice 88210	(505) 748-1471		Wildcat Precar	nhrian	
105 South Fourth Street, Artesia New Mexico 88210 4. Location of well (Report location clearly and In accordance with any		11.	Sec., T, R., M., or Blk An		
At surface					
SESW 660' FSL and 1980' At proposed prod. zone	FWL, Unit N		Section 15, T6S-R26E	, MER NMP	
same as	above		County or Parish	13. State	
14. Distance in miles and direction from the nearest town or post office*		12.	•	15. State	
Approximately Twenty-four (24) miles northeast 15. Distance from proposed*	from Roswell, NM 16. No. of acres in lease	17 Spacing	Chaves County Unit dedicated to this wel	<u>NM</u>	
location to nearest	10. No. of acres in lease	17 Spacing	, Onit dedicated to this wer	1	
property or lease line, ft			•••		
(Also to nearest drlg. unit line, if any) 18 Distance from proposed location*	960.00 19. Proposed Depth	20. BLM/ F	320 acres LM/ BIA Bond No. on file		
to nearest well, drilling, completed,					
applied for, on this lease, ft	5745'		ATIONWIDE BOND #N	MB000434	
21. Elevations (Show whether DF RT, GR, etc.)	22. Aproximate date work will	start	23. Estimated duration		
3745' GL	ASAP				
The following, completed in accordance with the requirements of Onshore	24. Attachments	110	CONTROLLED WATER BAS	SIN	
The following, completed in accordance with the requirements of offshore					
1. Well plat certified by a registered surveyor		operations ur	less covered by existing bo	ond on file(see	
 A Drilling Plan A Surface Use Plan (1f the location is on National Forest System Lan 	tem 20 above). ds, the 5. Operator certification	ion.			
SUPO shall be filed with the appropriate Forest Service Office).		cific informa	tion and/ or plans as may b	be required by the a	
25. Signature In: Caller Name	(Printed/ Typed) De	ebbie L. Caf	Date	6/25/2007	
Title					
Regulatory Agent Approved By (Signature) Name.	(During to 1/ Thing - 1)			0 × 000=	
/S/.IOHNS SIMITZ /	(Printed/Typed) S/JOHN S.	SIM	ITZ DateJUL	2 5 2007	
Title Assistant Field Manager, Office	ROSWELL FIELD OFFI		,		
Lands And Minerals				D FOR 2 YEARS	
Application approval does not warrant or certify that the applicant holds le operations thereon.	gal or equitable title to those rigi	nts in the sub	gect lease which would ent	itle the applicant to cc	
Conditions of approval, if any, are attached.					
fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr			o make to any department	or agency of the Unite	
States any false, fictitious or fraudulent statements or representations as to * (Instructions on page 2)	any matter within its jurisdiction	1			
APPROVAL SUBJECT TO	If earther	n pits are	used in		
GENERAL REQUIREMENTS AND			ne drilling of this		
SPECIAL STIPULATIONS ATTACHED	well, an	OCD pit	permit must be		
er and an oranons at IAUHED	obtained	prior to p	oit construction.		
				·	

<u>District I</u> 1625 N. Frensh Dr., Hobbs <u>District II</u> 1301 W. Grand Avenue, A <u>District III</u> 1000 Rio Brazos Rd., Azter <u>District IV</u> 1220 S. St. Francis Dr., Sa	rtesia, NN c, NM 874	M 88210 410 M 87505	,1111 0C	011 27 D-AR	Minerals & N CONSER 20020 Sout TESUNTA F	latural VAT h St. Se, NN	Mexico Resources Depar ION DIVISIO Francis Dr. M 87505 EAGE DEDIC)	Appropria State Fee	Form C-102 October 12, 2005 ate District Office Lease - 4 Copies Lease - 3 Copies
¹ API Nu	imber			2 Pool	42			³ Pool Na Wildcat	me Giran	176	
⁴ Property Code 3,2444						operty N	lame FEDERAL			• 1	Vell Number
						erator N					¹ Elevation
⁷ OGRID No.				v	•		CORPORATION				
025575											3745'
					¹⁰ Sur	face I	Location				
UL or lot no. Secti	ion Tow	wnship	Range	Lot	ldn Feet fr	om the	North/South line	Feet from the	East	/West line	County
N 15	;	6S	26E		660		SOUTH	1980	WE	ST	CHAVES
L		ł	¹¹ Bc	ttom	Hole Locat	ion If	Different From	n Surface			J
UL or lot no. See	ction Tow	wnship	Range	Lot	ldn Feet fr	om the	North/South line	Feet from the	East	/West line	County
			1			i					
¹² Dedicated Acres ¹³ Jo	oint or Infi	fill 14 Con	solidation	Code	15 Order No.						
320 S/2											

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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
				I hereby 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 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
				Sphature Date
i				Debbie L. Caffall Pruted Name
				Regulatory Agent
				Title
1				¹⁸ SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this
		NM-101575		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.
1				
				Date of Survey
				Signature and Seal of Professional Surveyor
				REFER TO ORIGINAL PLAT
1980'				
1.100				
	6			
	6			
	Q			Certificate Number
The second s	A REAL PROPERTY AND		Company of the second se	H Contraction of the second seco

DISTRICT I 1988' R. Frank Br., Bobbs, MM 88648 DISTRICT, II 811 South First, Ariesia, NM 88219 DISTRICT III 1000 Rib Brazos Ed., Axtec, NM 87410 DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87606

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Form C-102 Revised March 17, 1999 Instruction on back Submit to Appropriate District Office State Lesse - 4 Copies Foe Lesse - 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

D AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APJ	Number		Pool Code				13414	Pool Name cat Precambi			
Property C	ode			co	Property OKER "BCB"				Yell M	umber	
ograd na 025575				YAJE	Operator S PETROLEUI		ORATION		Xievatica 3745		
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WELL DRILLING REQUIREMENTS

3 of 5 pages

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: <u>11³/4</u> inch <u>8⁵/8</u> inch <u>5¹/2</u> 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 <u> $11\frac{3}{4}$ </u> inch surface casing shall be set at <u>950'</u> 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 8% inch intermediate casing if run is with sufficient amount of cement bring it up at least 200 above shoe.

3. The minimum required fill of cement behind the $5\frac{5}{2}$ inch production casing is <u>cement shall extend upward a minimum of</u> 200 feet above the top of 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 <u>11³/4</u> 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 results of the test shall be reported to the appropriate BLM office.
- B. 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.
- C. Testing must be done in a safe workman-like manner. Hard line connections shall be required.
- D. BOPE shall be tested before drilling into the Wolfcamp formation.

D. <u>DRILLING MUD:</u>

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:

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

YATES PETROLEUM CORPORATION Cooker BCB Federal #1 660' FSL and 1980' FWL Section 15-T6S-R26E Chaves County, New Mexico

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

San Andres	765'	Spear Zone	4910'
Glorieta	1715'	Cisco	5175'
Yeso	1830'	Strawn	5400'
Tubb	3250'	Siluro-Devonian	5520'
Abo	3895'	Precambrian	5595'
Wolfcamp	4590'	TD	5745'

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

Water: 150'-300' Oil or Gas: Basement formations.

3. Pressure Control Equipment: BOPE will be installed on the 11 3/4" 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 C.

Auxiliary Equipment:

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- 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)

<u>Hole Size</u>	Casing Size	<u>Wt./Ft</u>	<u>Grade</u>	Coupling	Interval	Length		
14 ¾"	11 ³ ⁄4"	42#	H-40	ST&C	0-950'	950'		
11"	8 5/8" *	24#	J-55	ST&C	0-1600'	1600'		
7 7/8"	5 1⁄2"	15.5#	J-55	ST&C	0-5745'	5745'		
* - 8 5/8" will only be set if lost circulation is encountered								

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

Gooker BCB Federal #1

Page 2

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A. CEMENTING PROGRAM:

Surface Casing: 350 sx Lite "C" (YLD 2.0 WT 12.5). Tail with 200 sx C + 2% CaCl2 (YLD 1.33 WT 15.6).

Intermediate Casing: 250 sx Class C + 2% CaClw (YLD 1.32 WT 14.8)

Production Casing: 500 sx Pecos Valley Lite (YLD 1.34 WT 13.0). TOC 3300'.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

Interval	Type	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-950'	FW GEL/Paper/LCM	8.6-9.6	34-36	N/C
950'-3750'	Cut Brine/Brine	10.0-10.2	28	N/C
3750'-5745'	Starch/Salt Gel	9.8-10.0	45-50	<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 W/NGT to TD to surf csg, CNL/GR TD to surf csg. DLL/MSFL TD to surf csg, BHC Sonic TD to surf csg; FMI TD - top of Wolfcamp.
 Coring: Sidewall
 DST's: None

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

Anticipated BHP:

	From: From:	0 950'	TO: TO:	950' 5745'	Anticipated Max. BHP: Anticipated Max. BHP:		
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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 10 days to drill the well with completion taking another 20 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION Cooker BCB Federal #1

660' FSL and 1980' FWL Section 15-T6S-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:

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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 24 miles northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go to the intersection of 70/285 in Roswell, NM. Take 70 east for approx. 14 miles to Aztec road. Turn north and go approximately 14.6 miles to locked cattle guard. Don't go through the cattle guard. Turn west down the fence and go approx. 0.4 and the road turns north for 0.3 of a mile and then turns west. Go approx. 0.4 of a mile and then turn north thru the cattle guard for approx. 0.1 of a mile. The new road will start here and go to the SE corner of the pad.

- 2. PLANNED ACCESS ROAD:
 - A. The proposed new access will be approximately 550' in length from the point of origin to the northeast corner of the drilling pad. The road will lie in a westerly direction.
 - 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.
- 3. LOCATION OF EXISTING WELL:
 - A. There is drilling activity within a one-mile radius of the well site.
 - B. Exhibit E shows existing wells within a one-mile radius of the proposed well site.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. There are no 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.

Cooker BCB Federal #1 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, 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 locate nearest pit and will obtain any permits and materials needed for construction.

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 D 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: Pits to the north.
 - B. The reserve pits will be plastic lined.
 - 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.

Cooker BCB Federal #1 Page 3

- 11. SURFACE OWNERSHIP: Bureau of Land Management Roswell, NM.
- 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 L. Caffall, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

Through Drilling, Completions & Prod. Ray Stall, 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.

06/25/2007

Regulatory Agent

Yates Petroleum Corporation Cooker BCB Federal #1 660' FSL and 1980' FWL Section 15-T6S-R26E Chaves County, New Mexico Exhibit "B"

Yates Petroleum Corporation

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



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

Adjustable chokes

Adjustable choke

BOP-2

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WELL DRILLING REQUIREMENTS

4 of 5 pages

IV. ON LEASE - WELL REQUIREMENTS:

A. The holder shall post signs identifying the location permitted herein with the requirements contained in Onshore Oil and Gas Order #1 and 43 CFR 3162.6.

B. The following data is required on the well sign that shall be posted in a conspicuous place on the well pad. The sign shall be kept up with current identification and shall be legible for as long as the well is in existence:

Operator Name: Yates Petroleum Corporation Well Name & No.: Cooker "BCB" Federal #1 Lease No.: NM-101575 Footage: 660' FSL & 1980' FWL Location: Section 15, T. 6 S., R. 26 E.

C. UPON ABANDONMENT OF THE WELL, THE SAME INFORMATION SHALL BE INSCRIBED ON THE DRY HOLE MARKER WITH A BEADED WELD.

D. The approval of the APD does not in any way imply or grant approval of any on-lease, off-lease, or off-unit action(s). It is the responsibility of the holder to obtain other approval(s) such as rights-of-way from the Roswell Field Office or other agencies, including private surface landowner(s).

E. All vehicles, including caterpillar track-type tractors, motor graders, off-highway trucks and any other type of motorized equipment that is used in the construction of the access road and well pad shall be confined to the area(s) herein approved. The drilling rig that is used to drill the well shall also be confined to the approved area(s).

F. Containment Structure Requirement:

1. A containment structure or earthen dike shall be constructed and maintained around all storage facilities/batteries. The containment structure or earthen dike shall surround the storage facilities/batteries.

2. The containment structure or earthen dike shall be constructed two (2) feet high around the facilities/batteries (the containment structure or earthen dike can be constructed higher than the two (2) feet high minimum).

3. The perimeter of the containment structure or earthen dike can be constructed substantial larger for greater holding capacity of the contents of the largest tank.

4. The containment structure or earthen dike shall be constructed so that in case of a spill the structure can contain the entire contents of the largest tank, plus 24 hour production, within the containment structure or earthen dike, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

WELL DRILLING REQUIREMENTS

3 of 5 pages

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: <u>11³/4</u> inch <u>8⁵/8</u> inch <u>5¹/2</u> 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 <u> $11\frac{3}{4}$ </u> inch surface casing shall be set at <u>950'</u> 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 $\underline{85}_{\pm}$ inch intermediate casing if run is with sufficient amount of cement bring it up at least 200 above shoe.

3. The minimum required fill of cement behind the $\underline{5\frac{1}{2}}$ inch production casing is <u>cement shall extend upward a minimum of</u> 200 feet above the top of 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 <u>11%</u> 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 results of the test shall be reported to the appropriate BLM office.
- B. 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.
- C. Testing must be done in a safe workman-like manner. Hard line connections shall be required.
- D. BOPE shall be tested before drilling into the Wolfcamp formation.

D. 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:

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