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(November 1983)				Drawer DDsu			Form approved.	Co / du
(formerly 9-331C)		UNITE	D STATE	S Artesia, N	Pthese 10	ctions on	Budget Bureau	No 1004 0126
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OR AFFLIED FOR, OI	N THIS LEASE, FT.			4250'		Rota		
21. ELEVATIONS (Show	whether DF, RT,	GR, etc.)	······································					
							22. APPROX. DATE WOR ASAP	K WILL START.
23.								
			POSED CASIN	IG AND CEMENTING	G PROGRAM	ſ		
SIZE OF HOLE	BIZE OF	CABING	VEIGHT DER BO	0				

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	
17 1/2"	13 3/8"	54.50#		QUANTITY OF CEMENT
12 1/4"	*8 5/8"			585 sacks - Circulate
		24.0 #	1450'	250 sacks - 250'
7 7/8"	4 1/2"	9.5 #	TD	700 sacks - 850'

*8 5/8" casing to be set if lost circulation is ecnountered. If lost circulation is not encountered, the hole will be reduced to 7 7/8" at 1450'.

Yates Petroleum Corporation proposes to drill and test the Abo and intermediate formations Approximately 650' of surface casing will be set and cement circulated to shut off gravel and cavings. If needed due to lost circulation, 8 5/8" intermediate casing will be run to 1450' and cemented to 1200'. If commercial, production casing will be run and cemented with adequate cover, perforated and stimulated as needed for production.

Spud mud to 650'; FW gel/LCM to 1450'; cut Brine to 3400'; SW gel, Starch, MUD PROGRAM: and diesel to TD. BOPE PROGRAM: BOPE will be installed on the 13 3/8" casing and tested daily.

Murboc + AP

GAS NOT DEDICATED

Т

IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout

24					
=	SIGNED Cliffle R. M (This space for Federal or State offi	Lay	TITLE Permit Agent	DATE .	10-20-92
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ENTITED dates States any false, fightfous of fraudulent statements or representations as to any matter within its jurisdiction.

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OCT 23 1992

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

- İ

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundari

Operator								n 	
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3. If mo	re than or	e lease of diff	ferent ownership is	s dedicated to the	well, have the	interest of a	all owners been (consolidated by con	
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YATES PETROLEUM CORPORATION Powers "OL" Federal #8 1980' FSL and 1980' FEL Section 21-T6S-R25E Chaves County, New Mexico DRILLING PROGNOSIS

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Surface	Sandy Alluvium
San Andres	516'
Glorieta	1,425'
Tubb	3,000'
Abo	3,653'
TD	4,250'

2. ESTIMATED DEPTHS OF ANITICIPATED WATER, OIL, GAS, OR MINERAL FORMATIONS:

Water:	250' - 300'
Gas:	3675'

3: PRESSURE CONTROL EQUIPMENT - (Schematic Attached)

- A. The Blow-Out Preventer will be equipped as follows:
 - 1. One (1) blind ram (above)
 - 2. One (1) pipe ram (below)
 - 3. Kill line (2-inch minimum)
 - 4. One (1) kill line valve (2-inch minimum)
 - 5. One (1) choke line valve
 - 6. Two (2) adjustable chokes.
 - 7. Upper kelly cock valve with handle available
 - 8. Safety valves & subs to fill all drill strings in use
 - 9. 2-inch (minimum) choke line
 - 10. Fill-up line above the upper most preventor
- B. Pressure Rating: 2,000 PSI
- 4. THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: (All New)

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft.</u>	Grade	Thread	Coupling	Interval	Length
17 1/2"	13 3/8"	54.5#	J-55	8RD	ST&C	0-650'	650'
*12 1/4"	8 5/8"	24#	J-55	8RD	ST&C	0-1450'	1450'
7 7/8"	4 1/2"	9.5#	J-55	8RD	ST&C	0-4250'	4250'

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

2. Yates Petroleum Corporation requests that a variance be granted in requiring the casing to be tested to 1500 PSI to testing the casing to 1000 PSI. The rig pumps will be used to test the casing. Rig pumps used in this area cannot safely test above 1000 PSI. We would have to go to the greater expense of hiring an independent service to do the testing. Also, the maximum shut-in bottom hole pressure is 1100 PSI. Pressure at the surface is much less. Most of the time the Abo formation requires treatment before it flows.



* 8 5/8" casing to be set if lost circulation is encountered. If lost circulation is not encountered, the hole size will be reduced to 7 7/8" at 1450'.

B. CEMENTING PROGRAM:

Surface Casing: Set with 335 sx HL "C" + 1/4#/sx Flocele + 2% CaCL2 with weight of 12.7 ppg and Yield 1.84 cu.ft./sx. Tail in 250 sx "Class C" with 2% CaCl2 with weight of 14.8 ppg and yield 1.32 cu.ft./sx, circulated to surface.

*Intermediate Casing: If needed will be set with 250 sx Class C with 2% CaCl2 with weight of 14.8 ppg and yield 1.32 cu.ft./sx with top of cement being approximately 1200'.

Production Casing: Set with 700 sx 65/35 Poz "C" with 2% Gel + .6% Halad - 332 + 2#/sx salt with weight of 14.1 ppg and yield 1.22 cu.ft./sx with cement top being approximately 3400'.

A greater amount of cement will be used if necessary to ensure that all potentially productive hydrocarbon zones are cemented off. Fill-up to be determined from logs.

5. MUD PROGRAM:

<u>Interval</u>	<u>Түре</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-1450'	FW Gel/LCM	8.6-9.9	32-40	N/C
1500'-3400'	Cut Brine	8.6-9.9	28	15cc
3400' - TD	S.Gel/Starch & Diesel	9.3	31-39	

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

6. EVALUATION PROGRAM:

Samples: Every 10' out from under surface casing.
Logging: CNL/LDT - TD to casing w/GR/CNL to surface; DLL w/RXO - TD to casing.
Coring: None Anticipated.
DST's: Any tests will be based on the recommendation of the well site geologist as warranted by breaks and shows.

7. ABNORMAL CONDITIONS

No abnormal temperatures or pressures are anticipated. No H2S has been reported or is known to exist from previous drilling in this area at this depth.

8. ANTICIPATED STARTING DATES

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Plans are to drill this well before the end of the year. 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 Powers "OL" Federal #8 1980' FSL and 1980' FEL Section 21-T6S-R25E 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 BLM map showing the well and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 38 miles northeast of Roswell, New Mexico, and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go north of Roswell on Highway 285 for approximately 23.5 miles to Cottonwood Ranch Road (NM 136). Turn right (east) and go approximately 6.5 miles. Take the left fork and go approximately .5 of a mile. Then right for approximately 2.2 miles. Turn left and go to the Hewitt IM Federal #3 location. The new access will start here from the NW corner of the pad.

2. PLANNED ACCESS ROAD

- A. The proposed new access will be approximately 2600' in length from point of origin to the southwest edge of the drilling pad. The road will lie in a easterly 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 one side. One traffic turnouts will be built.
- D. The route of the road is visible.

3. LOCATION OF EXISTING WELL

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

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.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh water system. A local water trucking firm will be contracted to furnish the water. They will provide the water obtaining it from whatever sources available to them at their discretion. It will be trucked to the location over the existing and proposed roads shown in Exhibit A. A probable source is Pipeline #5 located in Section 35-T5S-R24E.



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Powers "OL" Federal #8 Page 2

6. SOURCE OF CONSTRUCTION MATERIALS:

A. The dirt contractor will come up with a pit to use for construction of the road and pad. Probably from the Corn Brothers pit in Section 8-T6S-R26E.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allows 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 ro bins to prevent scattering and will be removed and deposited in an approved sanitary land fill. Burial on site is not approved.

8. ANCILLARY FACILITIES:

A. None required.

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.
- B. The reserve pits will be plastic lined.
- C. A 400' x 400' area has been staked and flagged.
- D. The top soil will be stored on the south side of location close to the SE Corner of pad.

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 wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been levelled.
- C. If the proposed well is non-productive, all rehabitation 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 within 90 days after abandonment.
- 11. SURFACE OWNERSHIP: Federal surface administered by the BLM.

12. OTHER INFORMATION:

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



Powers "OL" Federal #8 Page 3

13. OPERATOR'S REPRESENTATIVE

A. Through A.P.D. Approval: B.

Clifton R. May, Permit Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 Through Drilling Operations, Completions and Production:

Mike Slater, 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 drillsite 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.

10-20-92

Date

Clifton R. May Permit Agent





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YATES PETROLEUM CORPORATION

EXHIBIT C





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