ion ?LICATE*

UNITED STATES Artesia, NM Sociologide) DEPARTMENT OF THE INTERIOR

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

	RUREALLOR	E LAND MANAGE	MENT		5. LEASE DESIGNATION AND SERIAL N
4 DDI 16 4 TIO					NM-17202
APPLICATION	I FOR PERMIT	10 DRILL, D	EEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTER OR TRIBE NAM
a. Type of work		Principle.	to the second		N/A
DRII	LL 🔯	DEEPEN [PLUG BA	ACK □	7. UNIT AGREEMENT NAME
OIL C	OF WELL 1992				N/A
NAME OF OPERATOR	CLL XX OTHER		SINGLE MULT	IPLE	8. FARM OR LEASE NAME
NAME OF OPERATOR		Ú.	C. D.		Short RM Federal
<u>Yates Petrole</u> ı	um Corporation		€ 96 9 E		9. WELL NO.
ADDRESS OF OPERATOR					5
105 South Four	th Street, Art	esia, New Me	xico 88210		10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Re	port location clearly and	d in accordance with	any State requirements.*)		Pecos Slope Abo
1980! EST. and	990' FEL; Unit	-Jotton I			11. SEC., T., R., M., OR BLK.
At proposed prod. zone		DOCTOR I			AND SURVEY OR AREA
					Sec. 25-T7S-R25E
. DISTANCE IN MILES A	ND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE*		12. COUNTY OR PARISH 13. STATE
Approximately	22 miles north	neast of Rosw	ell, New Mexico		Chaves NM
DISTANCE FROM PROPUS LOCATION TO NEAREST			6. NO. OF ACRES IN LEASE	17. No. 6	OF ACRES ASSIGNED
PROPERTY OR LEARN I.I	NE, FT.			TO T	HIS WELL
(Also to nearest drlg.	Unit line, if any)		0 phopogra		160
TO NEAREST WELL, DR OR APPLIED FOR, ON THIS	ILLING, COMPLETED	. 1	9. PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS
. ELEVATIONS (Show wheth			4000'	Rot	ary
	DE, BI, UK, EVC.)				22. APPROX. DATE WORK WILL STAR
3623' GR					ASAP
		PROPOSED CASING	AND CEMENTING PROGRA	AM	
BIZE OF HOLE	SIZE OF CASING	WEIGHT PER POOT	SETTING DEPTH		
17 1/2"	13 3/8"	54.50#	850'	-	QUANTITY OF CEMENT
		<u> </u>		1 800	sacks - Circulate
12 1/4"	* 8 5/8"	24 0 #	14501		
12 1/4"	* 8 5/8"	24.0 #	1450'		sacks - Tie Back
7 7/8" * 8 5/8" casir not encountered Yates Petroleu Approximately	4 1/2" ng to be set if ed, the hole wi mm Corporation 850' of surface	9.5 # lost circul ll be reduce proposes to ce casing wil	4000' ation is encounte d to 7 7/8" at 14 drill and test th l be set and ceme	575 ered. I 50'. e Abo a	sacks - Tie Back sacks f lost circulation is nd Intermediate format:
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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

rator			Lease				Well No.
YATES PETROLEUM	CORPORATION		SHORT	"RM" FEDER	AL		5
Letter Section	Township		Range			County	
I 25	7 SC	DUTH	25 E	CAST	NMPM	CHAVI	ES
al Footage Location of Well:	TO A CUTO		1000				
leet Hoth the	EAST ucing Formation	line and	1980		feet from th	e SOUTH	
	Abo		Pool Per	us Shope	4 20		Dedicated Acreage:
1. Outline the acreage dedi		ll by colored sen				, 	160 Acres
2. If more than one lease is 3. If more than one lease of unitization, force-pooling Yes If answer is "no" list the orthis form if neccessary. No allowable will be assign or until a non-standard unit	f different ownership is g, etc.? No If ar where and tract descripted to the well until all	s dedicated to the uswer is "yes" typ- tions which have interests have be	well, have the inte	rest of all owners be	rse side of unitization,	forced-pooling OPERAT I hereby stained herei	nunitization,
					Per Con Ya	e	
		NM-	7202	990' -	on act sup cor bel	sereby certify this plat w wal surveys vervison, and	192 ul of veyor

YATES PETROLEUM CORPORATION

Short RM Federal #5 1980' FSL and 990' FEL Section 25-T7S-R25E Chaves County, New Mexico DRILLING PROGNOSIS

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

San Andres	397'
Glorieta	1,447'
Fullerton	2,838'
Abo	3,549'
TD	4,000'

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

Water: 250' - 300' Gas: 3549'

- 3: PRESSURE CONTROL EQUIPMENT (Schematic Attached)
 - A. The Blow-Out Preventor 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)

Hole Size	<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 - 850'	850'
*12 1/4"	8 5/8"	24#	J-55	8RD	ST&C	0 - 1450'	
7 7/8"	4 1/2"	9.5#	J-55	8RD	ST&C	0 - 4000'	

- 1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.8
- *2. 8 5/8" casing to be set if lost circulation is encountered. If lost circulation is not encountered, the hole will be reduced to 7 7/8" at 1450'.
- 3. 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.



Short RM Federal #5 Page 2

B. CEMENTING PROGRAM:

Surface Casing: Set with 500 sx HL "C" $+ \frac{1}{2}$ /sx Flocele $+ \frac{3}{5}$ granulite $+ \frac{3}{5}$ CaCl2 with weight of 12.7 ppg and Yield 1.84 cu.ft./sx. Tail in 200 sx "Neat" 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 350 sx HL with 3% CaCl2, 3#/sx Granulite + 1/3#/sx flocele with weight of 12.8 ppg and yield 1.84 cu.ft./sx with top of cement being approximately 1200'. Tailed in with 200 sacks "C" + 2% CaCl2 with weight of 14.8 and yield 1.32.

Production Casing: Set with 575 sx 65/35 Poz "C" with 2% Gel + .6% Halad - 332 + 2#/sx salt with weight of 14.0 ppg and yield 1.6 cu.ft./sx with cement top being approximately 3100'.

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>Type</u>	Weight	Viscosity	Fluid Loss
0 - 850'	Spud Mud			<u></u>
850' - 1450'	FW Gel/LCM	8.6-9.9	32-40	N/C
1450' - 3400'	Cut Brine	9.9	28	
TD	S.Gel/Starch & Diesel	9.3	31-39	15cc

Sufficient mud material(s) to maintain mud properties, control lost circulation 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

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 Short RM Federal #5 1980' FSL and 990' FEL Section 25-T7S-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.

EXISTING ROADS:

Exhibit A is a portion of BLM map showing the well and roads in the vicinity of the proposed location. The proposed well site is located approximately 21 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 13 miles to One Horse Road. Turn right and follow road 2.6 miles to Cottonwood road. Go left on Cottonwood for 9.2 miles to Chaves Road. Go right for 2.6 miles and new access will start here and go to the southwest corner of the pad.

2. PLANNED ACCESS ROAD

- A. The proposed new access will be approximately 1800' in length from point of origin to the southwest edge of the drilling pad. The road will lie in a northerly 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 side. No traffic turnout will be built.
- D. The route of the road is visible.

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.

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 Cooper #2 located in Section 6-T6S-R26E.

Jack Water Station-Sec. 31-TST-KZ4E Rount # REN 3378



Short RM Federal #5 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. A probable pit is a private pit located in the S/2 of Section 30-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 or 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. Yates Petroleum Corporation wishes to apply for an off-lease Right-of-Way for a 3" OD Steel, X-42, buried pipeline. Approximately 100 MCF per day volume with approximately 200 PSI working pressure. The route will follow the access road to and across Chaves Road and then northeast to the southeast corner of Coffman #2 pad in the NENE of Section 25-T7S-R25E. The length will be about 2100'. See Exhibit A.

9. WELL SITE LAYOUT:

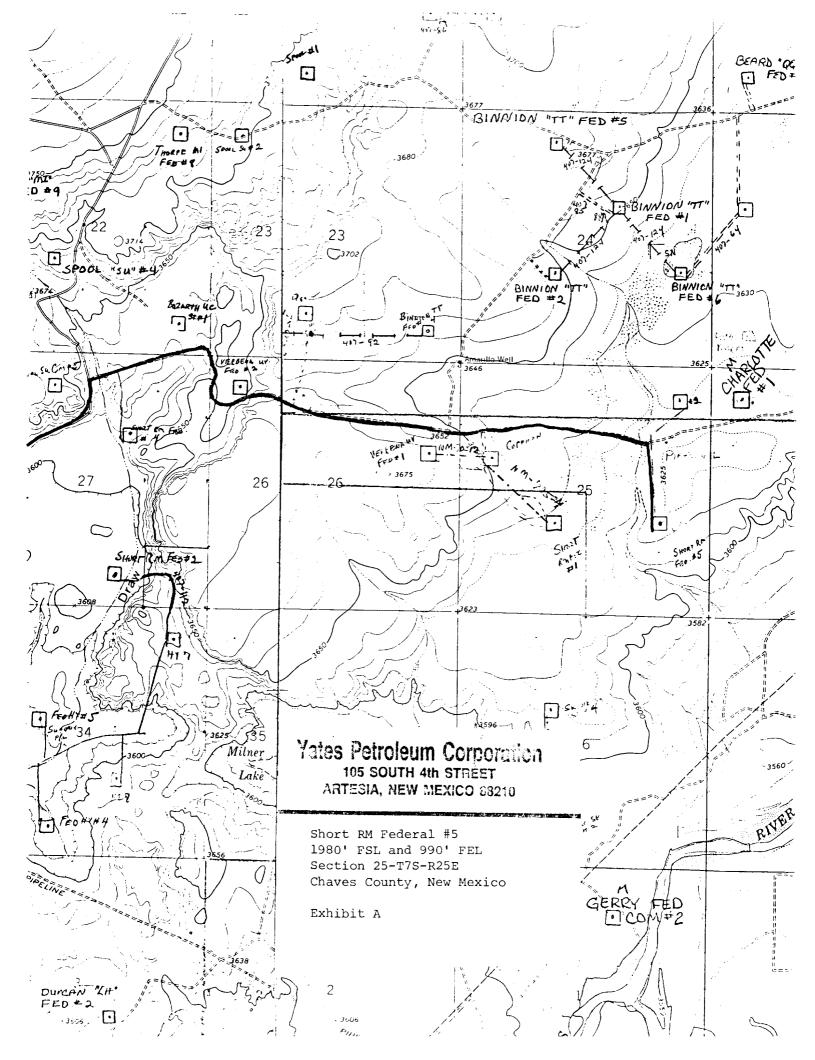
- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The reserve pits will be plastic lined.
- C A 400' x 400' area has been staked and flagged.

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 when dry.
- 11. SURFACE OWNERSHIP: Federal surface administered by the BLM.

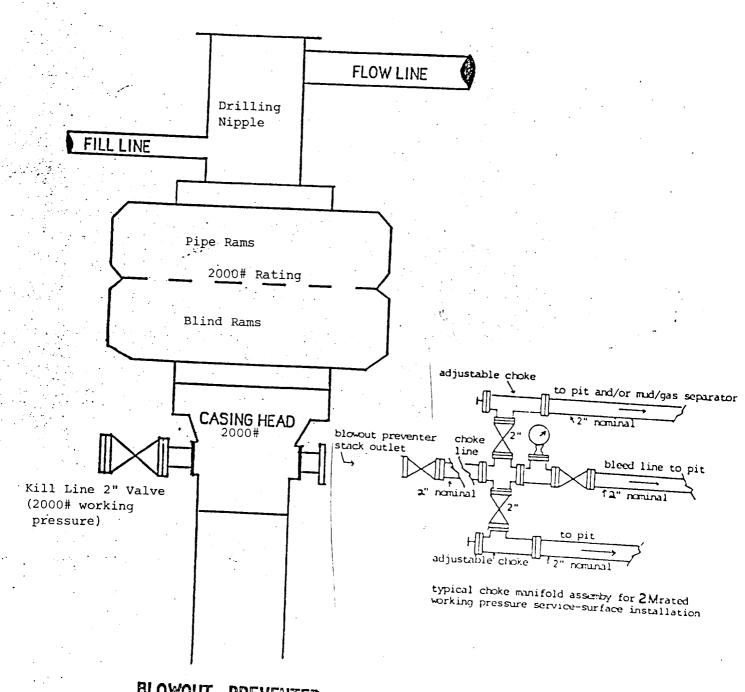
12. OTHER INFORMATION:

- 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.





YATES PETROLEUM CORPORATION

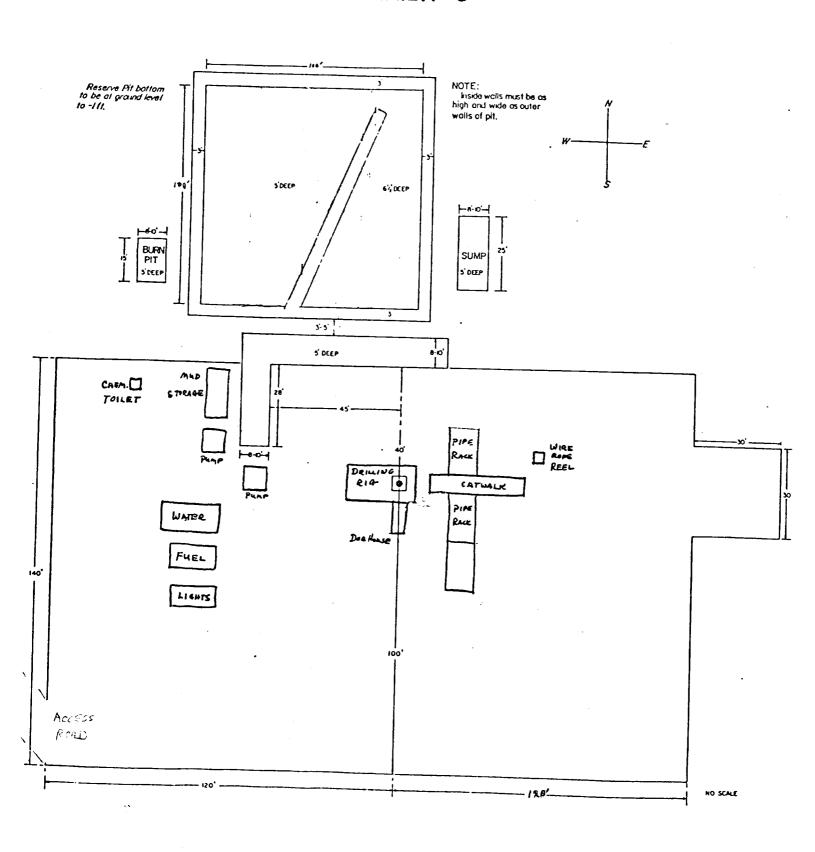


BLOWOUT PREVENTER 2M SYSTEM

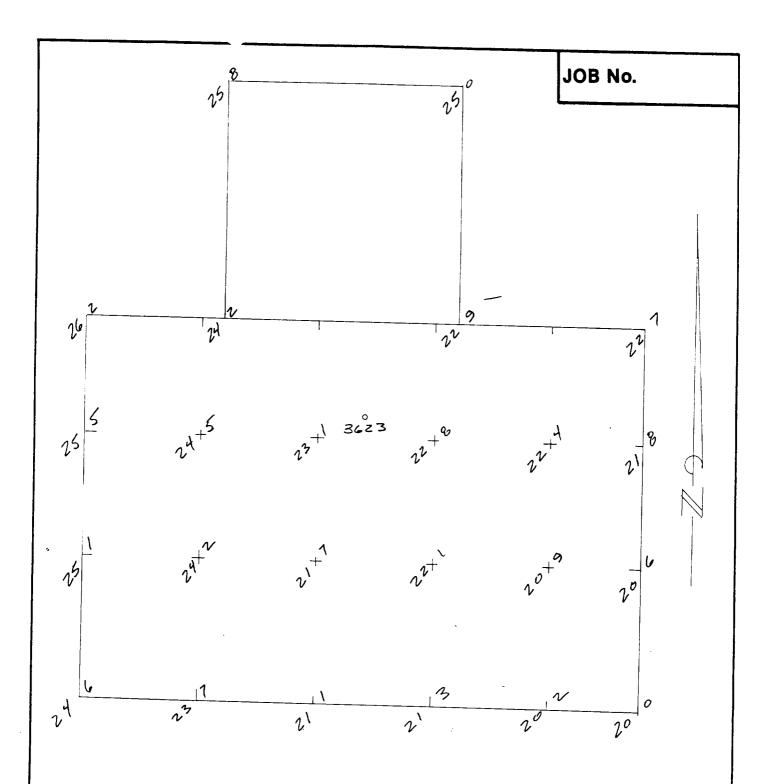


YATES FETROLEUM CORPORATION

EXHIBIT C







HIGH POINT: NW COR. PAD 3626.2 LOW POINT: SE COR. PAD 3620.0

Yates Petroleum Corporation 105 SOUTH 4th STREET

ARTESIA, NEW MEXICO 88210

Short RM Federal #5 1980' FSL and 990' FEL Section 25-T7S-R25E Chaves County, New Mexico

Exhibit D



