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Form 3160-3		, MA 58210	2	OMB No	o. 1004-0136
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DEPARTMENT OF THE	INTERI	OR A	A 56	5. Lease Serial No.	
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APPLICATION FOR PERMIT TO			X 2002	26. If Indian, Allottee	or Tribe Name
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la. Type of Work: X DRILL R	EENTER	12	THESIA A		
		13	C.	8. Lease Name and V	Vell No
b. Type of Well: Oil Well 🔀 Gas Other		Single Single	Milline Zone		Federal Com. #1
Well		Zone		-	
2. Name of Operator 25575				9. API Well No.	- 31317
	<u>en</u> Tr			<u> </u>	
3A. Address 105 South Fourth Street	po. Pho	one No. (Include area cod	·		t Morrow
Artesia, New Mexico 88210 4. Location of Well (Report location clearly and in accordance with a	State re	(505) 748-147	/1		or Blk, and Survey or Area
		EWI . H			
	Same	FWL W. H		Section 2	4, T18S-R29E
14. Distance in miles and direction from nearest town or post office*		<u> </u>		12. County or Parish	13. State
Approximately 20 miles SE of Artesia, New Mexi	со			Eddy	NM
15. Distance from proposed* location to nearest	16. No	o. of Acres in lease	17. Spacing U	nit dedicated to this well	
property or lease line, ft. 660' (Also to nearest drig. unit line, if any)		280.00		W /2	
18. Distance from proposed location*	19. Pr	oposed Depth	20. BLM/BIA	Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft. 1320'		11,900'		585997	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Ar	pproximate date work will	start*	23. Estimated duration)n
3445' GL		ASAP		45	Days
	2.4	Attachments	Cantan Co	nirolled Water Ba	n in
The following, completed in accordance with the requirements of Onsh			be attached to this	form:	
The following, completed in accordance with the requirements of onsi					
1. Well plat certified by a registered surveyor.			-	s unless covered by an e	xisting bond on file (see
2. A Drilling Plan.		Item 20 abo	,		
3. A Surface Use Plan (if the location is on National Forest System La	nds, the	5. Operator cer		nation and/or plans as m	on he required by the
SUPO shall be filed with the appropriate Forest Service Office.		6. Such other si authorized of	-	ation and/or plans as m	ay be required by the
		Name (Printed/Typed)	<u> </u>		Date
25. Signature		Cy Cowan		ĺ	4/30/02
Title:				L	
Regulatory Agent					
Approved by (Signature) /S/ JOE G. LARA		Name (Printed/Typed	V JOE G.	LARA	Date MAY 3 1 2002
Title		Office			
Title <u>ATINE</u> FIELD MANAGER Application approval does not warrant or certify that the applicant hol		1		FIELD OFF	
	ds legal or	equitable title to those rig			
operations thereon. Conditions of approval, if any, are attached.			AP	PROVAL FO	H 1 YEAH
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YATES PETROLEUM CORPORATION Shelby AVL Federal Com. #1 660' FSL & 1980' FWL Section. 24 -T18S-R29E Eddy County, New Mexico

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

Yates Queen Bone Spring Wolf Camp Penn Conven	960' 1810' 3870' 9000' 9740' 10.090'	Strawn Atoka Morrow Clastics Austin Cycle TD	10,350' 10,600' 10,840 11,750' 11,900'
Canyon	10,090'		

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

Water: Approx 250' - 350' Oil or Gas: All Potential Zones

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8"" casing and rated for 5000 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)

<u>Hole Size</u>	Casing Size	<u>Wt./Ft</u>	<u>Grade</u>	Coupling	Interval	Length
14 3/4"	11 3/4"	42#	H-40	ST&C	0-400'	400'
11"	8 5/8"	34#	J-55	ST&C	0-3200'	3200'
7 7/8"	5 1/2"	17#	J-80	LT&C	0-2500'	2500'
7 7/8"	5 1/2"	17#	J-55	LT&C	2500-7500'	5000'
7 7/8"	5 1/2"	17#	N-80	LT&C	7500-10300	' 2800'
7 7/8"	5 1/2"	17#	HCP-110	LT&C	10300-11900)' 1600 '

Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Joint Strength 1.8

Shelby AVL Federal Com. #1 Page 2

B. CEMENTING PROGRAM:

Surface casing: 200 sx "C" (Yld 1.32 Wt.14.6) Tail in w/ 200 sx "C"+ 2% CaCL2 (Yld 1.32 Wt 14.6)

Intermediate Casing: 1500 sx Lite (Yld 2.05 Wt 12.6); Tail in w/200 sx "C" (Yld 1.32 Wt. 14.6)

Production Casing: TOC-2700'; 700 sx Lite (Yld 2.05 Wt. 12.6). Tail in w/ 500 sx Super "C" (Yld 1.67 Wt 13.0)

Nitrified mud will be used ahead of cement.

5. Mud Program and Auxiliary Equipment:

Interval		<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-400'	FW Gel/Paper	8.6-9.0	32-36	N/C
400'-3200'	Brine	10.0-10.2	28	N/C
3200'-10500'	Cut Brine	8.8-9.5	28	N/C
10500'-11900'	Salt Gel/Starch/Drispac/KCL	9.5-10.0	32-40	<10cc

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 5000' to TD. Logging: Platform HALS Coring: Sidewall cores as warranted. DST's: As warranted.

7. Abnormal Conditions, Bottom hole pressure and potential hazards:

Anticipa	ated BHP:					
From:	•	TO:	400'	Anticipated Max. BHP:	150	
From:	400'	TO:	3200'	Anticipated Max. BHP:	1300	
From:	3200'	TO:	TD	Anticipated Max. BHP:	5750	PSI

No abnormal pressures or temperatures are anticipated.

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 30 days to drill the well with completion taking another 15 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN Yates Petroleum Corporation Shelby AVL Federal Com. #1 660' FSL & 1980' FWL Section. 24, T-18S-R29E Eddy 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 southeast of Artesia, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go east of Artesia on Highway 82 to State Road 360. Turn right on 360 and go to the intersection of Highway 360 and Old Loco Road. From here continue east on 360 for approx. 1.5 miles. Turn north here at yellow cattle guard and Myco East Turkey Track Fed. Com. #3 well sign. Go north on existing lease road and go approximately 1.1 miles. The new access road will start here going east.

2. PLANNED ACCESS ROAD.

- A. The proposed new access will go east for approximately 400' to the northwest corner of the drilling pad. The road will lie in a west to east 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. Traffic turnouts may be built.
- D. The route of the road is visible.
- E. Existing roads will be maintained in the same or better condition.
- 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 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, an electric self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.

Shelby AVL Federal Com. #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:

Dirt contractor will locate closest pit and 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 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 after they have evaporated and dried.
- 11. SURFACE OWNERSHIP: Private surface owned by Bogle Limited Company of Dexter New Mexico. YPC has made a surface agreement with Mr. Lewis Derrick representing Bogle Limited Company.

Shelby AVL Federal Com. #1 Page 3

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.

13. OPERATOR'S REPRESENTATIVE

A. Through A.P.D. Approval:

B. Through Drilling Operations, Completions and Production:

Cy Cowan, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 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.

4/30/02

Agent





Typical 5,000 psi choke manifold assembly with at least these minimum features





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