e				dsF	
×	N. M. O.	-			
	N. M. OII CONS. D. BII S. IST ST. AFTESIA, NM 88210-283	1.07			
Form 3160-3 (August 1999)	NJ-203	4	FORM APPROVE OMB No. 1004-01		
UNITED STATES			Expires November 30, 5. Lease Serial No.		
DEPARTMENT OF THE IN BUREAU OF LAND MANAG			NM-33944		
APPLICATION FOR PERMIT TO DE	RILL OR REENTER		6. If Indian, Allottee or Tribe	Name	
1a. Type of Work: X DRILL C REENTE	R		7. If Unit or CA Agreement, N	lame and No.	
1b. Type of Well: 🗋 Oil Well 🕅 Gas Well 🔲 Other	Single Zone 🔲 Mult	tiple Zone	8. Lease Name and Well No. Shelly Federal	#'2	
2. Name of Operator			9. API Well No.		
YATES PETROLEUM CORPORATION 3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explorate	3412	
<u>105 South Fourth St., Artesia, NM</u>	505-748-1471		Wildcat Percambr	-	
4. Location of Well (Report location clearly and in accordance with a			11. Sec., T., R., M., or Blk. and	Survey or Area	
At surface 660' FSL & 1980' FEL	0				
At proposed prod. zone Same as above U_N	<u>1ī O</u>		Section 23-T9S-	R24E	
14. Distance in miles and direction from Treasest town or post office *			12. County or Parish	13. State	
15. Distance from proposed* location to nearest	16. No. of Acres in lease		Chaves County g Unit dedicated to this well	NM	
property or lease line, ft. (Also to nearest drig. unit line, if any) 660 !	800.00		s/2 320.00		
 Distance from proposed location* to nearest well, drilling, completed, 	19. Proposed Depth 20. BLM		M/BLA Bond No. on file		
applied for, on this lease, ft.	5085'	585	997		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st		23. Estimated duration		
	ASAP		15 days		
77L 6.11.	24. Attachments				
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be a	ttached to this	s form:		
 Well plat certified by a registered surveyor. A Drilling Plan. 	Item 20 above).	•	is unless covered by an existing	bond on file (see	
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the 5. Operator certifi 6. Such other site authorized office	e specific info	ormation and/or plans as may be	e required by the	
25. Signature	Name (Printed/Typed)		Date		
Title OWTh	Cy Cowan			6-16-00	
Regulatory Agent					
Approved by (Signature) /S/LARRY D. BHAY	Name (Printed/Typed)		Date	UG 1 7 2001	
Title Assistant Field Manager, Lands And Minerals	Office	E	$(1 \land M)$		
Application approval does not warrant or certify the the applicant holds le operations thereon. Conditions of approval, if any, are attached.	egal or equitable title to those rights i	in the subject l	lease which would entitle the appl	icant to conduct	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to	a crime for any person knowingly a	and willfully t	o make to any department or age	ncy of the United	
*(Instructions on reverse)			<u>i</u>		
A CONTRACTOR OF		х. н. н.	and a second sec		
	4 . 				
$\int \frac{\partial x}{\partial t} dt = -\frac{1}{2} \int \frac{\partial x}{\partial t} dt = -\frac{1}{2} $					
A RECEIPTION	Still & W			ř	

RECE CALLE THE THE PARTY

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

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

DISTRICT III 1000 Rio Brazon Rd., Astec, NM 87410

OIL CONSERVATION DIVISION P.0. Box 2088 Santa Fe, New Mexico 87504-2088

Revised February 10, 1994 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

□ AMENDED REPORT

Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	Wildcat P	ercambrian
Property Code	Property Name	Well Number
	SHELLY FEDERAL	2
OGRID No.	Operator Name	Elevation
025575	YATES PETROLEUM CORPORATION	3572

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	9 5	24E		660	SOUTH	1980	EAST	CHAVES

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint a	r Infill Co	nsolidation	Code Or	der No.				
320.00									

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

<u></u>				OPERATOR CERTIFICATION
				I hereby certify the the information
				contained herein is true and complete to the
				best of my knowledge and beiles.
				(howan
				Signature
				Cy Cowan Printed Name
				Regulatory Agent
				Title
				67-00
				Date
				SURVEYOR CERTIFICATION
				I hereby certify that the well location shown
				on this plat was plotted from field notes of actual surveys made by ms or under my
				supervison, and that the some is true and
	VM-33	9114		correct to the best of my bollar.
	$\nabla P F D =$	D 171		5/30/2000
				Date Surveyed
				Signature & Seal of Professional Surveyor
				5/30/2000 Date Surveyed Signature & Seal of Professional Surveyor X NEN MEX Co
		3571 <u>35</u> 71		
		p=	1980'	134 (3640) §
				A DOLLAR AND A DOLLAR A
		3569 & 3570		Continue No. Herschel LS Jones RLS 3640 SHELLY 2 SUSK 29
	and and a second to a second secon	an an a start and a start a		GENERAL SURVEYING COMPANY

State of New Mexico

Energy, Minerals and Natural Resources Department.

YATES PETROLEUM CORPORATION SHELLY FEDERAL #2 660' FSL AND 1980' FEL Section 23,-T9S-R24E Chaves County, New Mexico

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

San Andres	625'
Glorieta	1260'
Yeso	1385'
Tubb	2810'
Abo	3550'
Basement Granite	4985'
TD	5085'

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

Water: 200'-300' Oil or Gas: 3550' to 5085'

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	<u>Interval</u>	Length
WITNE9512 1/4"	8 5/8"	24#	J55	ST&C	0 -900'	800
7 7/8"	4 1/2"	15.5#	J55	ST&C	0-5085'	5085'

- 1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.80
- 2. A 2,000 psi BOP will be nippled up on the 8 5/8" casing and tested to 500 psi. YPC requests a variance be granted in requiring the casing and BOPE to be tested to 2000 psi to testing the casing and BOPE to 500 psi. The rig pumps will be used to test the casing and BOPE. Rig pumps used in this area cannot safely test above 500 psi. We would have to go to the greater expense of hiring an independent service company to do the testing. Also, the bottom hole pressure in this field is proven to be near 500 psi due to depeletion. A shut in surface pressure would be less that 500 psi. The Abo formation usually requires stimulation before it flows. We feel that a 500 psi test will demonstrate that the BOPE is functioning properly, and in the unlikely event of a gas influx that the BOPE would be sufficient to control the well."

Shelly Federal #2 Page 2

 B. CEMENTING PROGRAM: Surface casing: Cement with 250 sx Lite "C" (YLD 2.0, WT. 12.5). Tail in with 200 sx "C" + 2% CaCl2 (YLD 1.33, WT. 14.8).

Production Casing: TOC 2800'. Cement with 300 sx "C" Plus additives (YLD 1.69 WT 13.0).

5. Mud Program and Auxiliary Equipment:

Interval	Type	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
Spud - 900'	FW Gel/Paper/LCM	8.6-9.6	32-36	N/C
900' - 3370'	Cut Brine/Brine	9.0-10.2	28	N/C
3370'- TD	Salt Gel/Starch/Oil/LCM	9.0-9.8	34-45	<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 out from surface casing to TD.
 Logging: Platform Express: CNL/LDT with NGT TD-to surface; GR/CNL to surface; DLL/MSFL TD-surface casing: BHC Sonic TD-surface casing.
 Coring: None anticipated.
 DST's: None anticipated.

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

Anticipated	BHL:		~~!		
From:	0	To:	900-975	Anticipated Max. BHP:	400 PSI
From:	900'	To:	TD	Anticipated Max. BHP:	2400 PSI

Abnormal Pressures Anticipated: None

Lost Circulation zones anticipated: None

H2S Zones Anticipated: None

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 Shelly Federal #2 660' FSL & 1980' FEL Section 23,T9S-R24E 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 wellsite 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:

From the over pass in Roswell, go east on Highway 70 for 3 miles. Turn north on Capitan Road and go approximately 0.4 of a mile to a fork in the road with Capitan Road and two track road going north. Take the two track and go approximately 300' to start of the new road.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 300' in length from the point of origin to the southwest corner of the drilling pad. The road will lie in a southwest to Northeast 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 turnouts will be built.
- D. The route of the roads in the area are 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 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.

Shelly Federal #2 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 be responsible for finding any surfacing materials needed and will obtain any permits that may be 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 land fill. 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, and the access road approach.
 - B. The reserve pits will be plastic lined.
 - C. A 400' x 400' area has been staked and flagged.
 - D. Pad will be rotated with the pits to the north.
- 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 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: Federal surface administered by Bureau of Land Management, Roswell, New Mexico.

Shelly Federal #2 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. 7

Cy Cowan, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 Through Drilling Operations, Completions and Production:

> Brian Collins, 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.

6/16/00









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

ર્ટ કે રે રે છે



