			. Grar	DIV-Disi nd Avenu 1 88210	18		CJ SF
Form 3160-3 (August 1999)		AICO	1643 1 M I W	1 Conget	1011		0 1004-0136
		UNITED STATE	S				mber 30, 2000
		RTMENT OF THE I				5. Lease Serial No.	· · · · · · · · · · · · · · · · · · ·
	BUF	EAU OF LAND MANAG	GEMENT	REI	CEIVED 2	**************************************	97851
	APPLICATION F	OR PERMIT TO D	RILL OR	REENTERCD	- ANTEON N	6. If Indian, Allottee o	r Tribe Name
1a. Type of Work:	X DRILL		ENTER	354 58.58		7. If Unit or CA Agree	ment, Name and No.
b. Type of Well:	Col Well Ga		[Single Zone	Multiple Zone	8. Lease Name and We Patterson AC	ell No. QL Federal #1
2. Name of Operat						9. API Well No.	······································
	eum Corporation	<u> </u>				30-015-37	
	95 South Fourth Stree rtesia, New Mexico	-	35. Phone r	No. (include area c	,	10. Field and Pool, or H	· · · · · · · · · · · · · · · · · · ·
	I (Report location clearly a		V State reauir	(505) 748-1 ements.*)	471	Eddy Undesig	Blk, and Survey or A
At surface		460' FNL 8	•		2		bik, and burvey of Mea
At proposed prod. 2			ame	- util		Section 4,	T23S-R23E
14. Distance in mi	les and direction from neare	st town or post office*				12. County or Parish	13. State
Approximate	ly 40 miles south of	Artesia, New Mex				Eddy County	<u>' NM</u>
location to near property or lease	est	660'	16. No. of .	Acres in lease	17. Spacing Ur	it dedicated to this well 40	
 Distance from p to nearest well, applied for, on t 	drilling, completed,		19. Propos	ed Depth 3600'	20. BLM/BIA	Bond No. on file 585997	
21. Elevations (Sho	ow whether DF, KDB, RT, C 4245' GR	iL, etc.)	22. Approx	imate date work w ASAP	ill start*	23. Estimated duration 45 c	Jays
			24. Att	achments			
The following, com	pleted in accordance with th	ne requirements of Onshor	e Oil and Gas	Order No. 1, shall	be attached to this	form:	
 A Drilling Plan. A Surface Use P 	ed by a registered surveyor. Plan (if the location is on Na iled with the appropriate For	•	s, the	Item 20 ab 5. Operator ce	ove). ertification. site specific inform	unless covered by an exis ation and/or plans as may	
25. Signature	10 barn	`	Na	ne (Printed/Typed,)	i Da	ate
	1 80000		Cy	Cowan	- · · · · · · · · · · · · · · · · · · ·	I	1/29/02
Regulatory	/ aont						
Approved by (Signa		Diseas	, Nai	ne (Printed/Typed))	D	ate
	75/ Wary u	. nugaza	1	/s/ 1	Mary J. Rug	Well	MAR 0 4 2002
/	ELD MANAGE		Offi	CARLS	BAD FIE		
operations thereon.	al does not warrant or certify	y that the applicant holds	egal or equita	ble title to those ri	ghts in the subject l	AL FOR 1	he applicant to conduct
Fitle 18 U.S.C. Sec	tion 1001and Title 43 U.S.C titious or fraudulent stateme				and willfully to ma		
*(Instructions on re	warea)		<u></u>				

rse)

Roowell Controlled Water Basin

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED



2002 JAN 30 PM 2: 10

BUREAU OF LEND MGMT. ROSWELL OFFICE

16

DISTRICT I 1996 H. Franch Dr., Hobbs, MM 00040

811 South First, Artonia, NM 86810

1000 Bis Brazos Ed., Astec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 57505

DISTRICT II

DISTRICT III

State of New Mexico

Energy, Minerals and Natural Resources Departmen.

Form C-102 Bovised March 17, 1999 Instruction en back Submit-to-Appropriats-District-Office State Lesse - 4 Copies Foe Lesse - 3 Copies

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name		
		Eddy Undesignated G	coup I	
Property Code	Prop	erty Name	Well Number	
	Patterson	AOL Federal	1	
OGRID No.		star Nama	Elevation	
025575	YATES PETROI	LEUM CORPORATION	4260	
	Surfa	ce Location		

UL or lot No. Section Range Township Lot Idn Feet from the North/South line Fast from the East/West line County А 4 23S 23E 460 North 660 East Eddy

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot kin	Fest from the	North/South line	Fost from the	East/Vort line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (lode Or	der No.				
40									

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

۹.			OPERATOR CERTIFICATION I hereby certify the the tryormation contained herein is brue and complete to the here of my herealedge and balls?
	345	678910 A	Cy Cowan Printed Name Regulatory Agent Title 1/29/02 Date SURVEYOR CERTIFICATION
		ECENTED IN THE PROVIDENT	I hereby certify that the well location shown on this plat uses plotted from field notes of actual surveys made by me or under my supervisen, and that the same is true and correct to the best of my balls. REFER TO ORIGINAL PLAT Date Surveyed Signature & Seal of
			Professional Surveyor Certificate No. Herschei L. Jones RLS 3640 GENERAL SURVEYING COMPANY

District I PO Box 1980, E District II	lobbs, NM	55 241-1980		Eaerg	State o y. Minerais &	f Ne k Natas	W Mexico	3e0(• R	evised	Form C-10 February 10, 199
PO Drawer DD, Artesia, NM \$\$211-0719 District III 1000 Rio Brazos Rd., Aztec, NM \$7410 District IV			OIL CONSERVATION DIVISION Submit t PO Box 2088 Santa Fe, NM 87504-2088						Instructions on baci Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies		
PO Box 2088. S	anta Fe, Nd	4 \$7504-20\$\$. [ENDED REPOR
<u></u>		W	ELL LO	OCATIC	N AND	AC	REAGE DED	ICATION 1	PLAT		
	API Nami	ber		* Pool Co	xde	Γ		* Pool	Name		
1 Property	Code							esignated	Group I		
		PATTER	SUN VU	L FEDER		roperty	Name				• Weil Number
'OGRED			_		' 0		Name				1 * Elevation
025575		YATES	PETROL	EUM COR	PORATIC	N					4260.
	- ,				¹⁰ Sur	face	Location		I		
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	4	23-S	23-E		460		NORTH	660	EAST		EDDY
UL or los so.	Section	Township	Range				f Different Fro	om Surface			
			wrate	Lot Ida	Fort from	UL C	North/South line	Feet from the	East West	line	Cousty
12 Dedicated Acr	ent n loint	or Infill " (Cansolidatio	a Code 14 () Order No.				1 .		
40											
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		OR A	NON-ST	ANDARD	UNIT HA	S BE	EN APPROVED	BY THE DIV	ISION		
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YATES PETROLEUM CORPORATION Patterson "AQL" Federal #1 660' FNL and 660' FEL Sec. 4-T23S-R23E Eddy County, State New Mexico

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

San Andres	1075'
Glorieta	2180'
Yeso	2310'
Bone Spring	3510'
TD	3600'

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

Water: 940' Oil or Gas: All potential zones

3. Pressure Control Equipment: BOPE will be installed on the 9 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)

<u>Hole Size</u>	Casing Size	<u>Wt./Ft</u>	<u>Grade</u>	Coupling	Interval
14 ¾'	9 5/8"	36#	J-55	ST&C	0-1100'
8 3/4"	5 1/2"	15.5#	J-55	LT&C	0-3600'

Roewell Controlled Water Basin

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

Patterson AQL Federal #1 Page 2

B. CEMENTING PROGRAM:

Surface Casing: Lead with 200 sx "H" 12% Thixad, 10#/sx Gilsonite, ½#/sx Celloseal and 400sx Light, ¼# sx Celloceal. Yield 2.05 (cu. ft)/sx, tail with 200sx "C". Yield 1.57 (cu. ft)/sx.

Production Casing: Lead with 625 sx Super "C" (11 Fumed Cilica, 8 Hyseal, 1/4 Celloseal)#/sx. Yield 1.76 (cu. ft)sx.

5. MUD PROGRAM AND AUXILLIARY EQUIPMENT:

Interval	Туре	Weight	Viscosity	Fluid Loss
0 - 1100'	FW Spud Mud	8.3-8.5	28-34	N/C
1100'-3600'	Cut Brine	8.5-8.7	28-30	<20

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:	From 10' under surface casing.
	CNL/LDT, DLL w RXO
Coring:	None.
DST's:	None.

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

From: 0	TO: 1100'	Anticipated Max. BHP:	450	PSI
From: 1100'	TO: 3600'	Anticipated Max. BHP:	1400	PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 135° 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 Patterson AQL Federal #1 660' FNL and 660' FEL Sec. 4-T23S-R23E Eddy County, State 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 42 miles south of Artesia, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go north of Carlsbad, New Mexico on Highway 285 for 12.5 miles to Highway 137. Turn west and go approx. 18.5 miles to the Sacahuiste KE Federal #1 location. Access road will start here using existing Right-of-Way NM-93086.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 4,600' length from the point of origin to the southeast corner of the drilling pad. The road will lie in a west to east then south 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. Some traffic turnouts will 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, 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.

Patterson AQL 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 obtain any 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 within 90 days after abandonment.

Patterson AQL Federal #1 Page 3

11. SURFACE OWNERSHIP: Federal Surface, Administered by the Bureau of Land Management, Carlsbad, New Mexico,

Β.

12. OTHER INFORMATION:

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

13. **OPERATOR'S REPRESENTATIVE**

Α. Through A.P.D. Approval:

> 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: Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

14. CERTIFICATION:

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.

1/29/02

Regulatory Agent





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

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Intermediate Casing





The above dimension should be a maximum

'PB - L1

