2224 20	Oli Cons. DIV-Dis	Si. E		
Form 3160-3 SEP 2002 & UNITED STATES	W. Grand Assa	الاي الاياري		
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Form 3160-3 (August 1999) SEP 2002	1	OMB No. 1004-0136		
RECEIVED WUNITED STATES	Expires Novemb	er 30, 2000		
OCD - ARTESIADEPARTMENT OF THE IN	5. Lease Serial No.			
FUREAU OF LAND MANAG	EMENT	}	NM-015807 6. If Indian, Allottee or Tr	wih a Nama
APPLICATION FOR PERMIT TO DE	Not Appli			
-1016819			7. If Unit or CA Agreeme	
la. Type of Work: X DRILL REF	ENTER		Not Appli	
			8. Lease Name and Well	
b. Type of Well: Oil Well Gas Other		Iultiple Zone	Cactus Queen U	Jnit #18
Well	Zone		9. API Well No.	
2. Name of Operator Yates Drilling Company			30-005 -	21178 _
3A. Address 105 South Fourth Street	3b. Phone No. (include area code)		10. Field and Pool, or Exp	ploratory
Artesia, New Mexico 88210	(505) 748-1471		Chaves Queen	
4. Location of Well (Report location clearly and in accordance with any	State requirements.*)		11. Sec., T., R., M., or Bl	k, and Survey or Area
At surface 1370' FSL 8	k 1650' FEL		0 07 T400 D	045
At proposed prod. Zone	as above		Section 27-T12S-R	13. State
14. Distance in miles and direction from nearest town or post office*			Chaves County	NM
Approximately 26 miles north of Maljamar, New M 15. Distance from proposed*	16. No. of Acres in lease	17. Spacing Ur	it dedicated to this well	1700
location to nearest		, ,	40	
(Also to nearest drig. unit line, if any) 18. Distance from proposed location*	80 19. Proposed Depth	20. BLM/BIA	Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.	3100'		586000	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*		23. Estimated duration	
44001.01	ASAP		30 Days	
4432' GL	<u></u>			
	24. Attachments			
The following, completed in accordance with the requirements of Onsho		attached to this	form:	
The following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No. 1, shall be		form: s unless covered by an existi	ing bond on file (see
	re Oil and Gas Order No. 1, shall be	the operations		ing bond on file (see
The following, completed in accordance with the requirements of Onsho 1. Well plat certified by a registered surveyor.	4. Bond to cover Item 20 above 5. Operator certification.	the operations). ication.	s unless covered by an existi	
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DISTRICT I 1625 M. French Dr., Hobbs, NM 86240 DISTRICT II 811 South First, Artesia, NM 88210

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999 instruction on back Submit to Appropriate District Office

Pool Name

State Lease - 4 Copies

Pee Lease - 3 Copies

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

	API Number		Pool Code			Pool Name			
30-00:	5-211	178	12	2110	Chave	Chaves Queen SE Associated			
Property (Code Property Name Well Num					ımber			
1/900		CACTUS QUEEN UNIT				18			
OGRID No	.		Opera			ie		Eleva	tion
025513			YATES DRILLING COMPANY				4432		
· <u></u>					Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	27	125	31E		1370	SOUTH	1650	EAST	CHAVES
			Bottom	Hole Loc	cation If Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	s Joint o	r Infill Co	nsolidation	Code Or	der No.				<u> </u>
NO ALLO	WABLE W	ILL BE A	SSIGNED	TO THIS	COMPLETION 1	UNTIL ALL INTE	RESTS HAVE B	EEN CONSOLID	ATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

			OPERATOR CERTIFICATION
			I hereby certify the the information
			contained herein is true and complete to the best of my knowledge and belief.
			// 4 //
			Signature Signature
			Pat Perez
			Printed Name
			Regulatory Agent
			May 21, 2002
			Date
			SURVEYOR CERTIFICATION
			I hereby certify that the well location shown
			on this plat was plotted from field notes of actual surveys made by me or under my
/30	NM-015807		supervison, and that the same is true and correct to the best of my belief.
(EV) 1	N.33°14'41.2"		correct to the vest of my veney.
SEP 22	₩.103°48'22.5"		1/31/2002
2 251	0-	1650'	Date Surveyed
23 24 25 3 24 25 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		1000	Signature & Seal of Professional Serveyor
000 HOEOS 007	·		RES MEXICAL
	-,0		
	1370		The sale of the sa
			Certificate No. Merchel L John RLS 3640
			CACTUS QUEEN 18
		l	GENERAL SURVEYING COMPANY

YATES DRILLING COMPANY Cactus Queen Unit #18

1370' FSL and 1650' FEL Section 27, T12S-R31E Chaves County, New Mexico

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

Rustler	1431'
Salt Top	1510'
Salt Base	2090'
Yates	2223'
Seven Rivers	2361'
Queen	2975'
TD	3100'

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

Water:

150'-300'

Oil or Gas:

Queen Formation.

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	Interval 0-4 83 ' 456
12"	8 5/8"*	24#	J-55	ST&C	0-4 22 9' <i>\$</i> 5 6
7 7/8"	5 1/2"	15.5#	J-55	LT&C	0-3100'

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



Cactus Queen Unit #18 Page 2

B. CEMENTING PROGRAM:

Surface Casing: 250 sx Class "C" (YLD 1.32 WT 14.8).

Production Casing: 350 sx Lite "C" (YLD 2.0 WT 12.5). Tail in with 250 sx Class C + 2%

CaCl2 (YLD 1.32 WT 14.8

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

Interval	Type	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-400'	FW /Native Mud	8.4 - 9.4	28-34	N/C
400'-2900'	Cut Brine/Brine	9.0 - 10.0	28	N/C
2900'-3100'	Brine/Starch	10 -10.2	28	<15/cc

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 under surface casing.

Logging: CNL/LDT, W/NGT TD-Surf csg; DLL/MSFL/GR TD to Surf csg.

BHC Sonic TD-SURF CSG

Coring: None DST's: None.

7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

Anticipated BHP:

From: 0 TO: 400' Anticipated Max. BHP: 175 PSI From: 400' TO: 3100' Anticipated Max. BHP: 1300 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None Anticipated

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 10 days to drill the well with completion taking another 20 days.



MULTI-POINT SURFACE USE AND OPERATIONS PLAN Cactus Queen Unit #18

1370' FSL and 1650' FEL Section 27-T12S-R31E 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 the BLM map showing the well and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 26 miles north of Maljamar, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go East of Maljamar, NM on HWY 82 for approx. 1 mile to the intersection of 82 and 249. Take 249 North for approx. 5.7 miles and 249 turns West and 172 continues North. Take 172 North for approx. 20.5 miles. There will be a cattle guard with a locked gate on the West side of the road. Turn left thru the cattle guard and then take the right fork. Follow the road for approx. 0.35 of a mile and road turns West. Go West approx. 700' and the new road will start here and go North approx.400' to the SE corner of the pad.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 400' in length from the point of origin to the southeast corner 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. 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.



Cactus Queen Unit #18 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 nearest 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 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, 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 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 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.

Cactus Queen Unit #18 Page 3

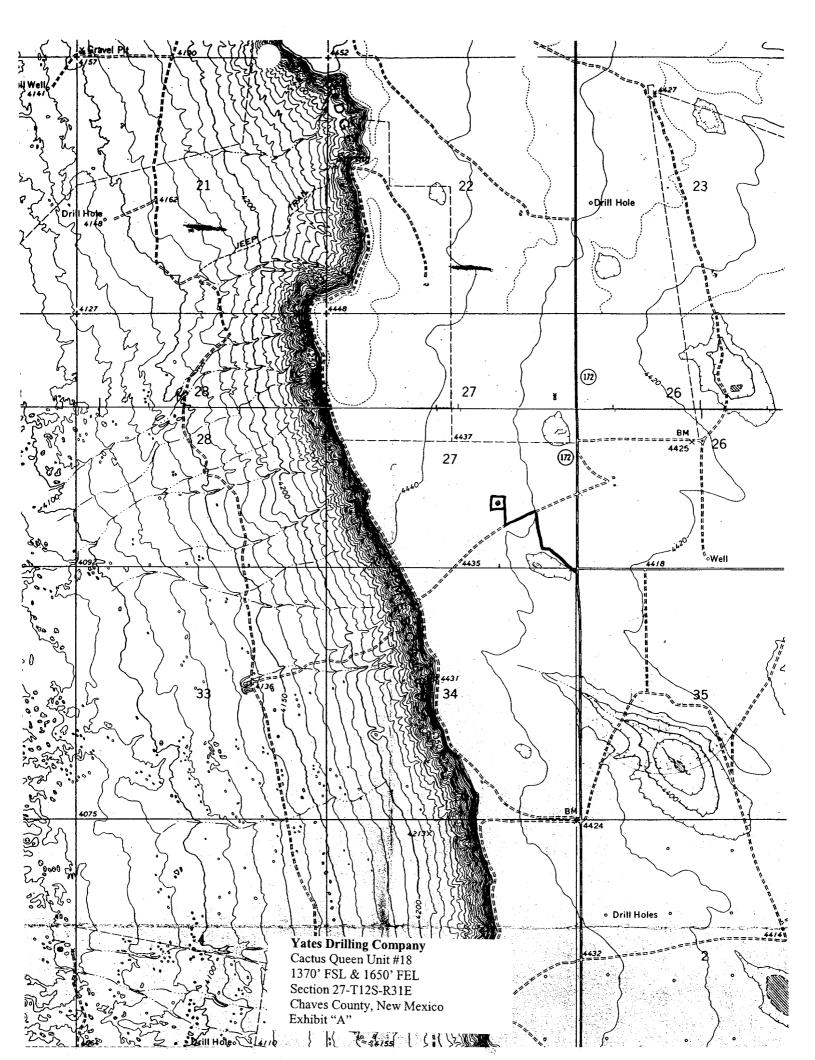
- 11. SURFACE OWNERSHIP: Split Estate with the surface belonging to Mr. W. T. Tivis, Eunice, New Mexico. Mr. Tivis and Yates Drilling Company have reached an agreement as to the operations to be conducted on his private surface.
- 12. OTHER INFORMATION:
 - A. Topography: Refer to the existing archaeological 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:
 Pat Perez, Regulatory Agent
 Yates Drilling Company
 105 South Fourth Street
 Artesia, New Mexico 88210
 Phone (505) 748-1471
- B. Through Drilling, Completions & Prod. Toby Rhodes, Vice-President Yates Drilling Company 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 746-0308

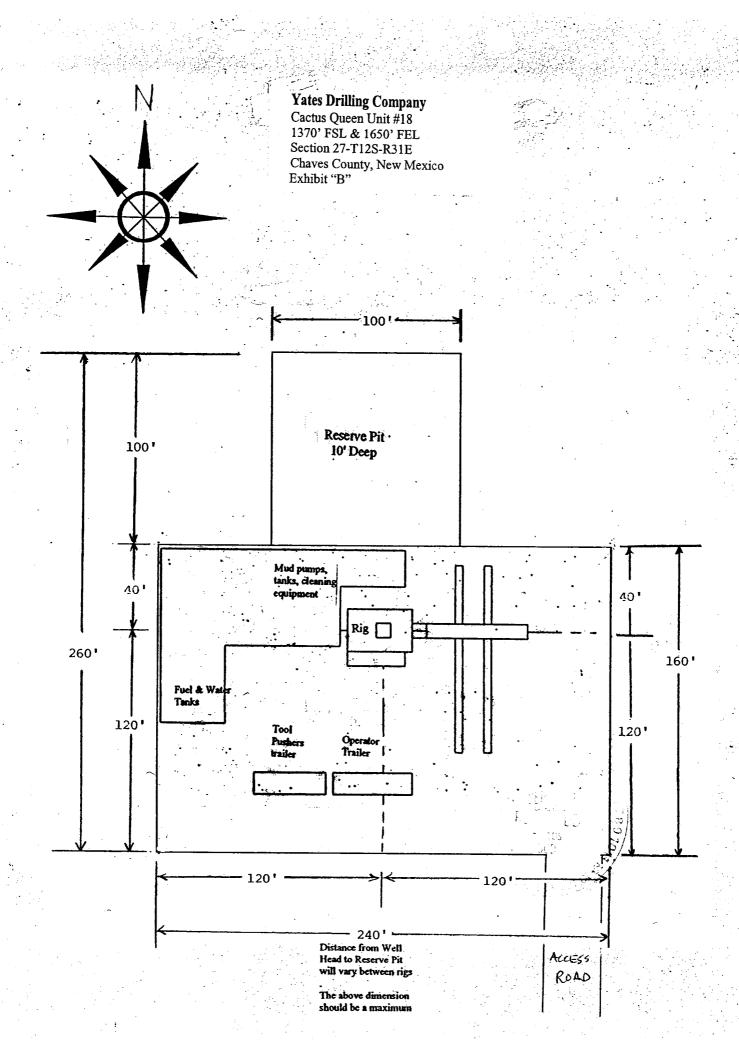
14. CERTIFICATION:

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 Drilling Company 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.

5/21/2002

Regulatory Agent

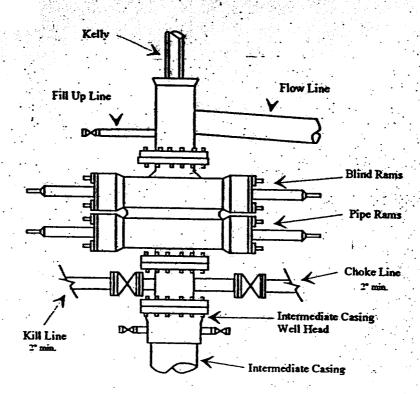






Yates Drilling Company Cactus Queen Unit #18 1370' FSL & 1650' FEL Section 27-T12S-R31E Chaves County, New Mexico Exhibit "C"

Typical 2,000 psi Pressure System Schematic Double Ram Preventer Stack



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

