New Mexico Oil Conservation T1 0 August 1999) 1625 N. French Drive Hobbs, NM 88249 0 DEPERTMENT OF THE INTERIOR BCREAU OF LAND MANAGEMENT 5. Less Sten No. APPLICATION FOR PERMIT TO DRILL OR REENTER 5. Less Sten No. APPLICATION FOR PERMIT TO DRILL OR REENTER Not Applicable a. Type of Wark DRILL REENTER b. Tope of Wark DRILL REENTER Not Applicable c. Address 10 500 Statt Fourth Strett State Regression Research and State Research and Resear	New Mexico O	11 Concomposi					
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DISTRICT I 1625 N. French Dr., Hobbe, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

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 State Lesse - 4 Copies Fee Lease - 3 Copies

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API NU 20-005	umber -211	76		Pool Code 2110		Chause	Pool Name		
Property Con				· · · · ·	Property N TUS QUEEN U	ame	Queen SE Ass	Well N 20	umber
OGRID No. 025513			Operator Name YATES DRILLING COMPANY			Eleva 4431	Elevation 4431		
					Surface Lo	ocation			
	Section 34	Township 12S	Range 31E	Lot Idn	Feet from the 1650	e North/South line SOUTH	Feet from the 2540	East/West line EAST	County CHAVES
			Bottom	Hole Lo	cation If Dif	ferent From Su	face	L	L
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40 NO ALLOW	Joint of		nsolidation SSIGNED		rder No.	UNTIL ALL INTE	RESTS HAVE BI	EEN CONSOLID	ATED
				N.33*1	3'51.7" 48'33.1" 854	540'	OPERATO / hereby contained hered best of my know Signature Pet Perr Printed Nam Regulat Title June 4, Date SURVEY(/ hereby certify on this plat w actual surveys supervison, ac correct to th Date Survey Signature & Professionel Certificates for the survey	ory Agent 2002 DR CERTIFICA y that the well loca as plotted from fiel made by me or nd that the same i be best of my bell 5/30/2002 HELL L SUMPERION 3640	formation lete to the

독신민준기

YATES DRILLING COMPANY Cactus Queen Unit #20 1650' FSL and 2540' FEL Section 34, T12S-R31E Chaves County, New Mexico

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

Rustler	1415'
Salt Top	1495'
Salt Base	2083'
Yates	2202'
Seven Rivers	2339'
Queen	2967'
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)

<u>Hole Size</u>	Casing Size	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	Interval
12"	8 5/8"*	24#	J-55	ST&C	0-499 450'
7 7/8"	5 1/2"	15.5#	J-55	LT&C	0-3100'

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

Cactus Queen Unit #20 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	Weight	<u>Viscosity</u>	<u>Fluid Loss</u>
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	28-32	<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.



ABOVE DATE DOES NOT INDICATE WHEN CONFIDENTIAL LOGS WILL BE RELEASED



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



WILL BE RELEASED CONFIDENTIAL LOGS ABOVE DATE DOES NOT INDICATE WHEN Ō ELF Y