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DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980 DISTRICT II P.O. Drawer DD, Artesis, NM 55211-0719

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

DISTRICT IV P.O. Box 2068, Santa Fe, NM 87504-2088 State of New Mexico

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Energy, Minerals and Natural Resources Department.

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

AMENDED REPORT

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VICINITY MAP



SEC. <u>4</u> TWP. <u>19</u>—S RGE. <u>32</u>—E SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>2055' FSL & 611' FEL</u> ELEVATION <u>3667'</u> OPERATOR <u>CHEVRON U.S.A. INC.</u> LEASE <u>LANSDALE "D" FED.</u>

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

DRILLING PROGRAM

Attached to Form 3160-3 Chevron U.S.A. Inc. Landsdale "D" Federal Som #2 2055' FSL & 611' FEL Section 4, T19S, R32E Lea County, New Mexico

1. <u>Geological Name of Surface Formation:</u>

Quarternary Alluvium

2. Estimated Tops Of Important Geological Markers:

Anhydrite	1256'
Salt	1366'
Grayburg	4406'
Delaware	5314'
Bone Spring	7170'

3. <u>Protection of Zones:</u>

The fresh water sands will be protected by setting 8-5/8" casing at 1300' and circulating cement to surface. The oil and gas zones will be isolated from other formations by setting 5-1/2" casing at TD and circulating cement to 200' above intermediate 8-5/8" casing shoe (1300').

4. <u>Casing Program</u>:

<u>Hole Size</u>	Interval	Csg OD	<u>Weight, Grade, Type</u>
12-1/4"	0-1300'	8-5/8"	24#, K-55, ST&C
7-7/8"	0-7250'	5-1/2"	15.5#, K-55, LT&C

A kelly cock will be in the drill string at all times, during drilling operations.

A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

Cement Program:

8-5/8" Surface Casing	Cemented to surface using Class "C" + 16% Gel, followed by Class "C" neat
5-1/2" Production Casing	To be cemented to intermediate casing shoe using Class "C" + additives.

The above cement slurries will be designed using caliper logs when available to circulate cement to desired depth.

5. Minimum Specifications for Pressure Control:

The blowout preventor equipment (BOP) shown in attachment will consist of a (3M system) double ram type (3000 psi WP) preventor and annular preventor. The unit will be hydraulically operated and equipped with blind and pipe type rams. BOP's will be installed on the 8-5/8" surface casing and will be utilized continuously until total depth is reached and production casing is in place and cemented. All BOP's and associated equipment will be tested to rated WP's.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These function tests will be documented on the daily drillers log. A 2" kill line and 2" choke line will be incorporated in the drilling spool below the ram-type BOP. Other BOP equipment will include a kelly cock, floor safety valve, choke lines and choke manifold having 3000 psi WP rating.

6. <u>Types and Characteristics of Proposed Mud System:</u>

The well will be drilled to a total depth using fresh water spud mud, saturated salt water and brackish water.

<u>DEPTH</u>	<u>TYPE</u>	WEIGHT	VISCOSITY	WATER LOSS
0'-1300'	FW Spud Mud	8.8	34-36	No control
1300-7250'	Sat. Salt Water	9.8-10.0	28	No Control

7. Logging, Testing, coring and Directional Program:

A. No DST's are planned.

- B. Open hole logs will be run @ TD.
- C. Sidewall cores in Grayburg.
- D. No directional drilling is planned.

8. Abnormal Pressures, Temperature and Potential Hazards:

No abnormal pressures or temperatures are foreseen. No hydrogen sulfide gas has been reported or is known to exist at these depths in this area.

9. Anticipated Starting Date and Duration of Operations:

Road and location preparation will not be undertaken until approval has been received from the BLM. The anticipated spud date is approximately July 29, 1997. The drilling operations should require approximately 20 days. If the well is deemed productive, completion operations will require, at minimum, an additional 30 days of testing to ascertain whether permanent production facilities will be constructed.

CHEVRON DRI' 'NG REFERENCE SERIES VOLUME ELEVEN WELL CONTROL AND BLOWOUT PREVENTION

E. CLASS III BLOWOUT PREVENTER STACK:

The Class III preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a blind ram preventer, a drilling spool, and a single pipe ram preventer on bottom. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". All side outlets on the preventers or drilling spool must be flanged, studded, or clamped. An emergency kill line may be installed on the wellhead. A double ram preventer should only be used when space limitations make it necessary to remove the drilling spool. In these instances, the choke manifold should be connected to a flanged outlet between the preventer rams In this hookup, the pipe rams are only. considered master rams only, and cannot be used to routinely circulate out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.



Rev. 1/1/89