Form 3160-3
(December 1990)

N. M. OIL CONS. DIVISION
P. O. BOX 1980
HOBBS, NEW MEXICO 88240

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

RECEIVED
1997 JUN -3 A 9:21
BUREAU OF LAND MGMT.
ROSWELL OFFICE

5. LEASE DESIGNATION AND SERIAL NO.: NM-22643

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ]

7. UNIT AGREEMENT NAME: N/A

b. TYPE OF WELL
OIL WELL [XX] GAS WELL [ ] OTHER SINGLE ZONE [XX] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME, WELL NO.: LANDSDALE "D" FEDERAL COM #2

2. NAME OF OPERATOR
CHEVRON U.S.A. INC. ATTN: J. K. Ripley

9. API WELL NO.

3. ADDRESS AND TELEPHONE NO.
P. O. BOX 1150, MIDLAND, TX 79702 915-687-7148

10. FIELD AND POOL, OR WILDCAT: Querecho Plains UNDESIGNATED DELAWARE

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 2055' FSL & 611' FEL UNIT I

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC. 4, T19S, R32E

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
34 MILES WEST OF HOBBS, NEW MEXICO

12. COUNTY OR PARRISH: LEA 13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 611'

16. NO. OF ACRES IN LEASE: 280

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 75'

19. PROPOSED DEPTH: ~~7500~~ 7250'

20. ROTARY OR CABLE TOOLS: ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, ect.) 3667' GR

CAPITAN CONTROLLED WATER BASIN

22. APPROX. DATE WORK WILL START* 7/29/97 ****

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24	1300'	SURFACE
7-7/8"	5-1/2"	15.5	7250'	SURFACE

CHEVRON USA PROPOSES TO DRILL TO APPROXIMATELY 7500'. IF WELL IS DEEMED TO BE NON-COMMERCIAL, THE WELLBORE WILL BE PLUGGED AND ABANDONED AS PER FEDERAL REGULATIONS. PROGRAMS TO ADHERE TO ONSHORE OIL AND GAS REGULATIONS ARE OUTLINED IN THE ATTACHMENTS.

OPER. OGRID NO. 4323
PROPERTY NO. 21147
POOL CODE 50490
EFF. DATE 8/6/97
API NO. 30-025-34081

Subject to Requirements and Stipulations Attached

********** PLEASE EXPEDITE **********

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new production zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24
SIGNED J.K. Ripley TITLE TECHNICAL ASSISTANT DATE 6/2/97

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY (ORIG. SGD.) TONY L. FERGUSON TITLE ADM, MINERALS DATE 7/30/97

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-34091	50490	Querecho Plains Delaware UNDESIGNATED

Property Code	Property Name	Well Number
~~2660~~ 21147	LANSDALE "D" FEDERAL ~~COM~~	2

OGRID No.	Operator Name	Elevation
4323	CHEVRON U.S.A. INC.	3667

Surface Location

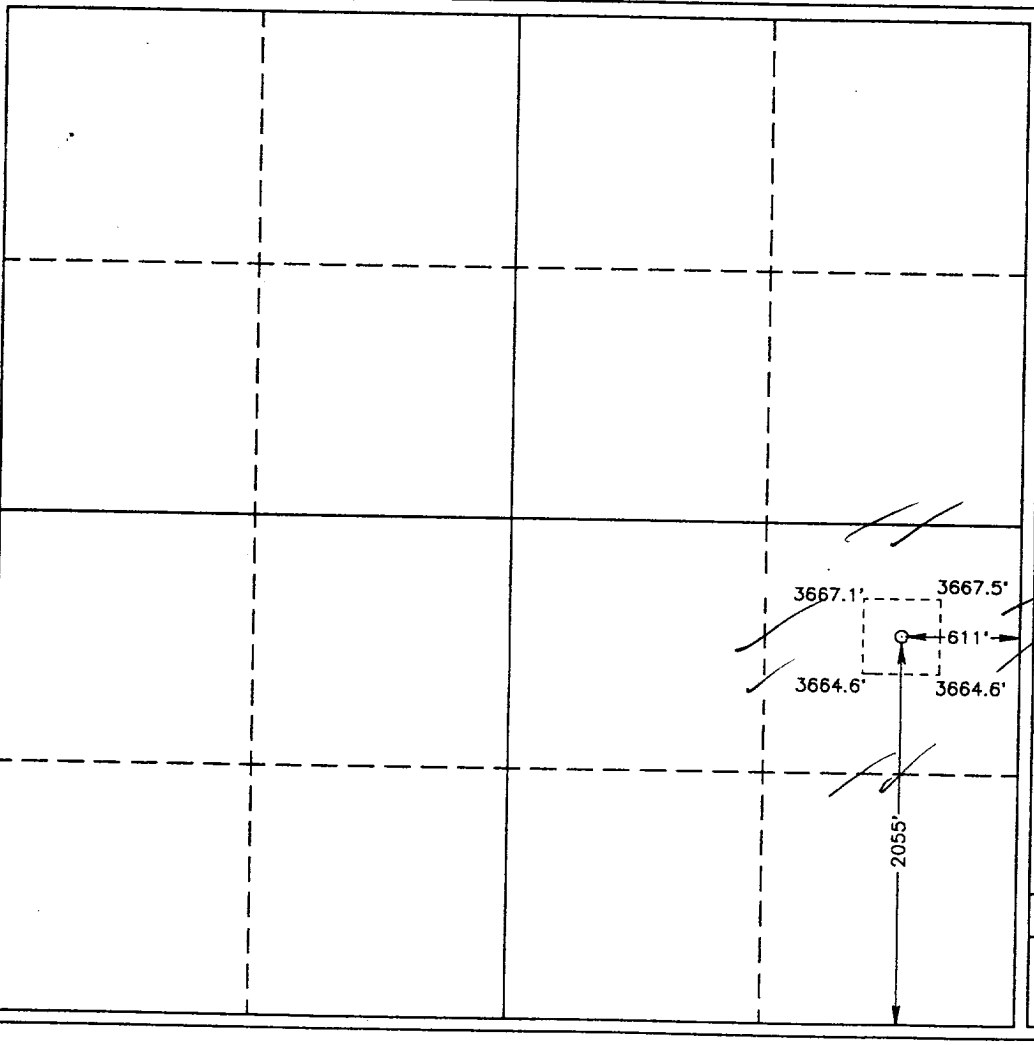
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	4	19 S	32 E		2055	SOUTH	611	EAST	LEA

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 or Infill	Consolidation Code	Order 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



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

J. K. Ripley
Signature

J. K. RIPLEY
Printed Name

T.A.
Title

6/2/97
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 supervison, and that the same is true and correct to the best of my belief.

MAY 15, 1997
Date Surveyed JLP

Signature & Seal of Professional Surveyor

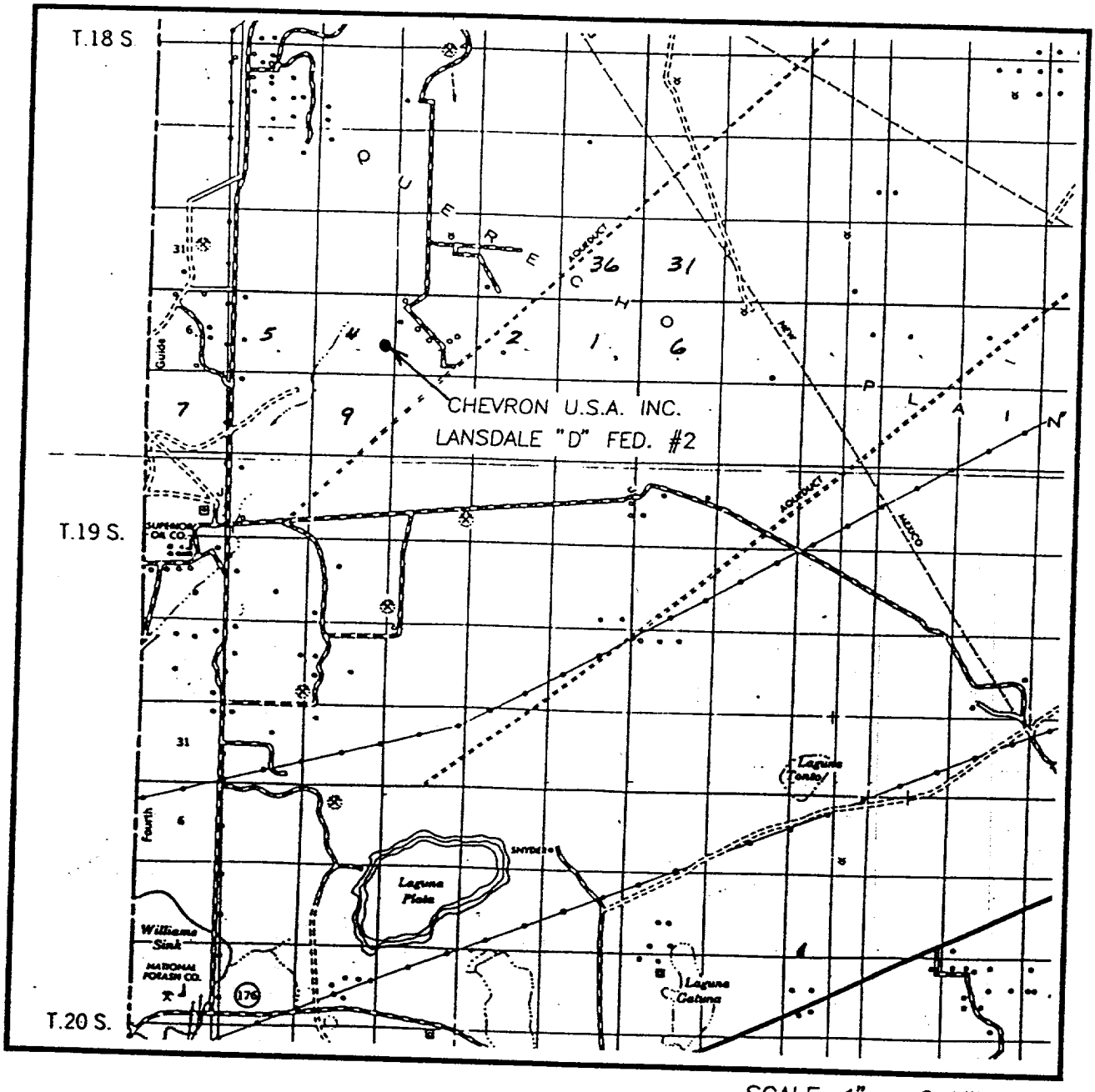
RONALD J. EIDSON
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR

5-19-97

W.O. Num. 97-11-0852

Certificate No. JOHN W. WEST. 676
RONALD J. EIDSON. 3239
GARY L. EIDSON. 12641

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 4 TWP. 19-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 2055' FSL & 611' FEL

ELEVATION 3667'

OPERATOR CHEVRON U.S.A. INC.

LEASE LANSDALE "D" FED.

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

DRILLING PROGRAM

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

1. Geological Name of Surface Formation:

   Quarternary Alluvium

2. Estimated Tops Of Important Geological Markers:

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

3. Protection of Zones:

   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. Casing Program:

Hole Size	Interval	Csg OD	Weight, Grade, Type
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. Types and Characteristics of Proposed Mud System:

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

DEPTH	TYPE	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.

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 only. In this hookup, the pipe rams are 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.

Figure 11J.4
Class III Blowout Preventer Stack