

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. OIL CONS. COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240
MISSION DESIGNATION AND SERIAL NO.
NMNM84603X-LC029489(B)
COUNTY, ALLOTTEE OR TRIBE NAME

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			7. UNIT AGREEMENT NAME Central Corbin Queen Unit		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8. FARM OR LEASE NAME		
2. NAME OF OPERATOR OXY USA Inc.			9. WELL NO. 216		
3. ADDRESS OF OPERATOR P.O. Box 50250 Midland, TX 79710			10. FIELD AND POOL, OR WILDCAT Central Corbin Queen		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660 FNL 1980 FEL NW-NE At proposed prod. zone Unit B			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 4 T18S R33E		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 8 miles SE of Maljamar, NM			12. COUNTY OR PARISH Lea		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'			13. STATE NM		
16. NO. OF ACRES IN LEASE 1561			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. 1320'			20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4034'			22. APPROX. DATE WORK WILL START* ASAP		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	400'	300sx-Circulate to Surface
7 7/8"	5 1/2"	15.5#	4250'	1400sx-Circulate to Surface

It is proposed to drill this well to a TD of 4250'

OPER. OGRID NO. 1669
PROPERTY NO. 8587
POOL CODE 13285 See Other Side
EFF. DATE 7-27-94
API NO. 30-025-32608

RECEIVED
JUN 16 10 50 AM '94
CARBON COPY
AREA

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive 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 [Signature] TITLE Engineering Advisor DATE 6/15/94
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Richard C. Manus TITLE Area Manager DATE 7-27-94
CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

The proposed casing program is as follows:

Surface: 8-5/8" OD 24# K55 ST&C new casing

Production: 5-1/2" OD 15.5# K55 ST&C new casing

Casing setting depth and cementing program:

- A. 8-5/8" OD surface casing set at 400' in 12-1/4" hole. Circulate cement with 300 sacks Class C + 2% CaCl₂. If cement does not circulate, determine the top of cement by temperature survey then finish cementing to the surface through 1" in the annulus using Class "C" with 2% CaCl₂.
- B. 5-1/2" OD production casing set @ 4250' in 7-7/8" hole. Circulate Cement with 1200 sacks Class C Light + 15 lb/sk salt + 0.25 lb/sk cellophane flakes followed by 200 sx Class C + 2% CaCl₂.

Note: Cement volumes may need to be adjusted to hole caliper.

Pressure Control Equipment

0' - 400' None

400' - 4250' 10" 3000# ram type preventers with one set blind rams and one set pipe rams and a remote operating station. See attached exhibit.

A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

After setting the 8-5/8" casing, the blowout preventers and related control equipment shall be pressure tested to rated working pressures. Any equipment failing to test satisfactorily shall be repaired or replaced. The BOPs will be maintained ready for use until drilling operations are completed.

BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

Accumulator shall maintain a pressure capacity reserve at all times to provide for the close-open-close sequence of the blind and pipe rams of the hydraulic preventers.

Mud Program:

0' - 400' Fresh water spud mud. Using lime to control pH (9 to 10). Paper for seepage. Vis 34-36 sec.

400' - 4000' Brine water. Wt. 10-10.2 ppg, vis 26-28 sec, pH 9.5-10 with lime. Paper for seepage control.

4000' - 4250' Mud up with salt gel system using gel for viscosity, starch for water loss, and caustic soda/soda ash for pH control to the following characteristics: Wt. 10.1 - 10.3, vis 35-40 secs, pH 10 - 10.5 WL < 10 cc's.

Testing, Logging and Coring Program:

- A. Testing program: None
- B. Mud logging program: None
- C. Electric logging program: CNL-LDT-GR
DLL-MSFL-Cal-GR
- D. Coring program: 1 - 60 foot core in the Queen

No abnormal temperatures or H₂S gas are anticipated.

Anticipated starting date is one week after this application is approved by the Bureau of Land Management. It should take approximately 5 days to drill the well and another 7-10 days to complete.

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brasos Rd., Asteo, NM 87410

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
Instruction on back
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 013285	Pool Name Central Corbin Queen
Property Code 008587	Property Name CENTRAL CORBIN QUEEN UNIT	Well Number 216
GRID No. 16696	Operator Name OXY U.S.A. INC.	Elevation 4034'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 2	4	18 S	33 E		660	NORTH	1980	EAST	LEA

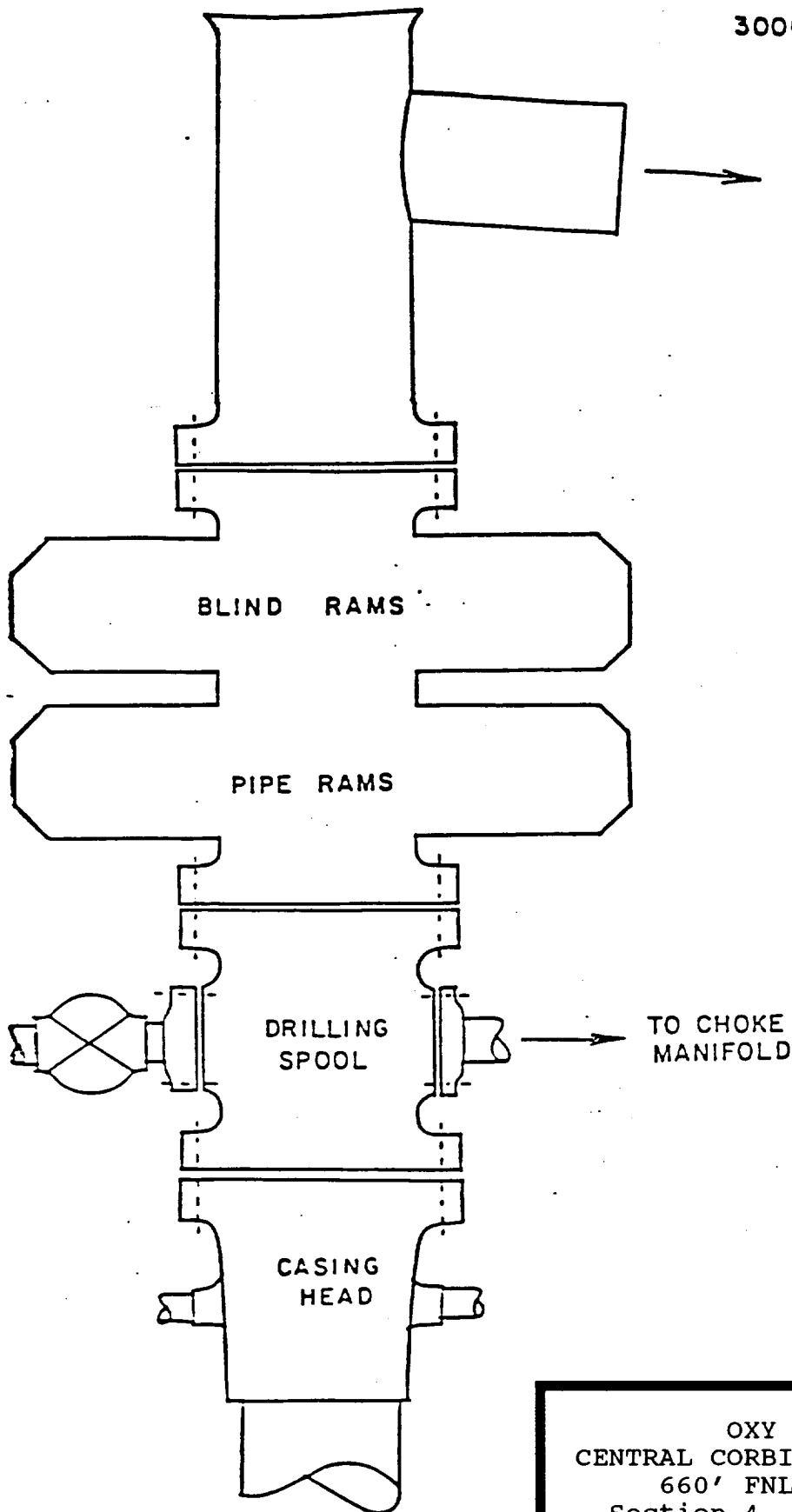
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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

LOT 4 40.47 AC.	LOT 3 40.40 AC.	<div>660' 4036.8' 4037.7' 1980' 4031.8' 4031.4' LOT 2 40.34 AC.</div>	LOT 1 40.27 AC.
<div>OPERATOR CERTIFICATION</div> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Scott E. Gengler</i> Signature Scott E. Gengler Printed Name Engineering Advisor Title June 27, 1994 Date</p> <div>SURVEYOR CERTIFICATION</div> <p>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 supervision, and that the same is true and correct to the best of my belief.</p> <p>JANUARY 25, 1994 Date Surveyed</p> <p><i>John M. West</i> Signature & Seal of Professional Surveyor</p> <p>P.O. Num. 94-11-0185 Certificate No. JOHN M. WEST, 676 BONNIE J. EIDSON, 3239 GARY L. JONES, 7977</p>			

BLOWOUT PREVENTER DIAGRAM
3000# W.P.



OXY USA Inc.
CENTRAL CORBIN QUEEN UNIT #216
660' FNL & 1980' FEL
Section 4, T-18-S, R-33-E
Lea County, New Mexico
Federal Lease No. LC-029489(b)



OXY USA INC.

Box 50250, Midland, TX 79710

June 15, 1994

United States Department of the Interior
Bureau of Land Management
Carlsbad Resource Area
P.O. Drawer 1778
Carlsbad, New Mexico 88220

Re: Application for Permit to Drill
OXY USA Inc.
Central Corbin Queen Unit #216
Lea County, New Mexico
Lease No. LC-029489(b)

RECEIVED
JUN 16 10 54 AM '94
OXY
APR 16 1994

Gentlemen:

OXY USA Inc. respectfully requests permission to drill our Central Corbin Queen Unit #216, located 660' from the north line and 1980' from the east line of Section 4, T-18-S, R-33-E, Lea County, New Mexico, Federal Lease No. LC-029489(b).

The location, work area, and access road have been staked. It is approximately 8 miles southeast of Maljamar, New Mexico.

In accordance with requirements stipulated in Federal Onshore Oil and Gas Order No. 1 under 43 CFR 3162.1, our Application for Permission to Drill and supporting evidence is hereby submitted.

I. Application for Permit to Drill:

1. Form 3160.3, Application for Permit to Drill.
2. Form C-102 Location and Acreage Dedication Plat certified by Gary L. Jones, Registered Land Surveyor No. 7977 in the State of New Mexico, dated January 25, 1994. Exhibit attached.
3. The elevation of the unprepared ground is 4034 feet above sea level.
4. The geologic name of the surface formation is Tertiary Ogallala.
5. Rotary drilling equipment will be utilized to drill the well to TD 4,250' and run casing. This equipment will then be rigged down and the well will be completed with a pulling unit.

Application for Permit to Drill
Central Corbin Queen Unit #216

Page 2

6. Proposed total depth is 4,250 feet.

7. Estimated tops of important geologic markers.

Anhydrite	1450'
Yates	2915'
Seven Rivers	3350'
Queen	4120'
Total Depth	4250'

8. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Primary Objective: Queen 4120'

9. The proposed casing program is as follows:

Surface: 8-5/8" OD 24# K55 ST&C new casing

Production: 5-1/2" OD 15.5# K55 ST&C new casing

10. Casing setting depth and cementing program:

A. 8-5/8" OD surface casing set at 400' in 12-1/4" hole. Circulate cement with 300 sacks Class C + 2% CaCl_2 . If cement does not circulate, determine the top of cement by temperature survey then finish cementing to the surface through 1" in the annulus using Class "C" with 2% CaCl_2 .

B. 5-1/2" OD production casing set @ 4250' in 7-7/8" hole. Circulate Cement with 1200 sacks Class C Light + 15 lb/sk salt + 0.25 lb/sk cellophane flakes followed by 200 sx Class C + 2% CaCl_2 .

Note: Cement volumes may need to be adjusted to hole caliper.

11. Pressure Control Equipment

0' - 400'	None
400' - 4250'	10" 3000# ram type preventers with one set blind rams and one set pipe rams and a remote operating station. See attached exhibit.

A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

After setting the 8-5/8" casing, the blowout preventers and related control equipment shall be pressure tested to rated working pressures. Any equipment failing to test satisfactorily shall be repaired or replaced. The BOPs will be maintained ready for use until drilling operations are completed.

BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

Accumulator shall maintain a pressure capacity reserve at all times to provide for the close-open-close sequence of the blind and pipe rams of the hydraulic preventers.

12. Mud Program:

0' - 400'	Fresh water spud mud. Using lime to control pH (9 to 10). Paper for seepage. Vis 34-36 sec.
400' - 4000'	Brine water. Wt. 10-10.2 ppg, vis 26-28 sec, pH 9.5-10 with lime. Paper for seepage control.

Application for Permit to Drill
Central Corbin Queen Unit #216

Page 4

4000' - 4250' Mud up with salt gel system using gel for viscosity, starch for water loss, and caustic soda/soda ash for pH control to the following characteristics: Wt. 10.1 - 10.3, vis 35-40 secs, pH 10 - 10.5 WL < 10 cc's.

13. Testing, Logging and Coring Program:
 - A. Testing program: None
 - B. Mud logging program: None
 - C. Electric logging program: CNL-LDT-GR
DLL-MSFL-Cal-GR
 - D. Coring program: 1 - 60 foot core in the Queen
14. No abnormal temperatures or H₂S gas are anticipated.
15. Anticipated starting date is one week after this application is approved by the Bureau of Land Management. It should take approximately 5 days to drill the well and another 7-10 days to complete.
16. The Multi-Point Surface Use & Operation Plan is attached.
17. If the Bureau of Land Management needs additional information to evaluate this application, please advise.

Very truly yours,



Scott E. Gengler
Engineering Advisor
Western Region

SEG/seg

Attachments