

ABOVE THIS LINE FOR DIVISION USE ONLY

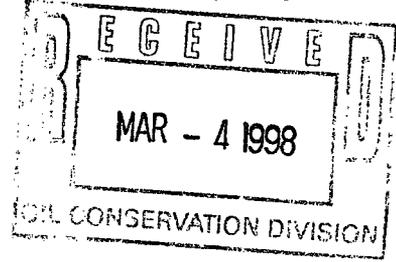
NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]



[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [A] Location - Spacing Unit - Directional Drilling
 NSL NSP DD SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

[2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply**

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding**

I hereby certify that I, ~~or personnel under my supervision~~, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note - Statement must be completed by an individual with supervisory capacity.

David Stewart
Print or Type Name

David Stewart
Signature

Regulatory Analyst
Title

3/2/98
Date



OXY USA Inc.
P.O. Box 50250, Midland, TX 79710-0250

March 2, 1998

New Mexico Oil Conservation Division
24 S. Pacheco Street
Santa Fe, NM 87505

Attention: Mr. Michael E. Stogner

Re: *Application of OXY USA Inc. for Unorthodox Well Location*
OXY Roscoe Federal Com. #1
1540 FNL 1760 FEL Unit G Sec 4 T17S R27E
Undesignated Logan Draw Morrow Pool
Eddy County, New Mexico

Dear Mr. Stogner:

OXY USA Inc. respectfully requests administrative approval under Rule 104 (F) of this application for the subject unorthodox gas well location. The surface location was staked 220' from an interior quarter-quarter section line. This was done due to topographical conditions, a large rock ridge would have to be leveled. OXY proposes to designate the north half of the section as a 320-acre spacing unit.

OXY is requesting NSL authority for all zones below the top of the Wolfcamp to the base of the Morrow. Also attached is Form C-102 and since this well is located 1100' from the nearest side boundary and 1760' from the nearest end boundary, there are no affected parties and no notice was given. If I can provide any additional information to aid in processing this request, please call me at (915) 685-5717. Thank you for consideration of our application.

Sincerely,

A handwritten signature in cursive script, appearing to read "David Stewart".

David Stewart
Regulatory Analyst
OXY USA Inc.

Attachments

CC: NMOCD - Artesia Office
BLM - Roswell Office
R. Foppiano - OXY USA Inc.

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

State of New Mexico

Energy, Minerals and Natural Resources Department

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

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

OIL CONSERVATION DIVISION

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 80400	Pool Name Undesignated Logan Draw Morrow
Property Code	Property Name OXY ROSCOE FEDERAL COM.	Well Number 1
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3448'

Surface Location

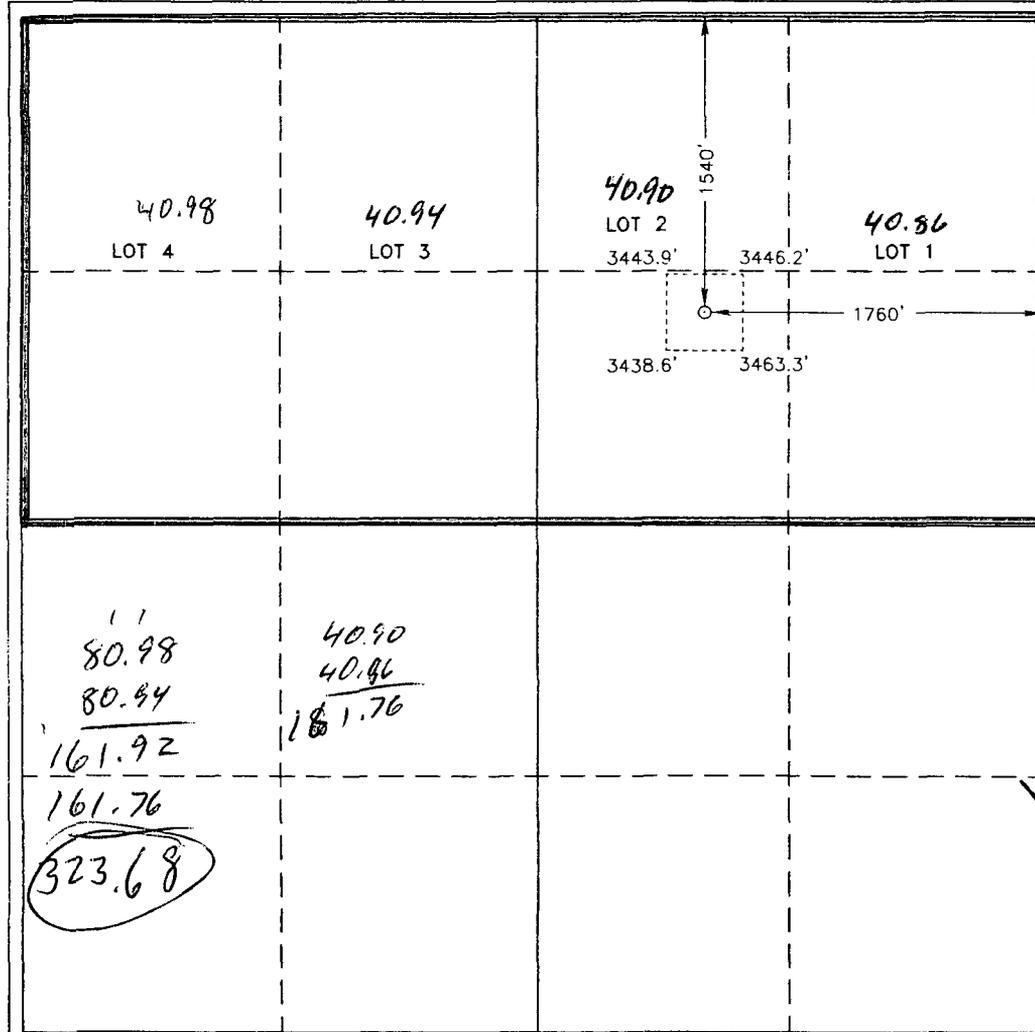
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	4	17 S	27 E		1540	NORTH	1760	EAST	EDDY

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 320	Joint or Infill N	Consolidation Code	Order No.
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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.

David Stewart
Signature

David Stewart
Printed Name

Regulatory Analyst
Title

3/2/98
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 supervision and that the same is true and correct to the best of my belief.

February 10, 1998
Date Surveyed

Gary L. Jones
Signature

Professional Surveyor
NEW MEXICO

W.O. No. 80720

Certificate No. Gary L. Jones 7977

REGISTERED PROFESSIONAL LAND SURVEYOR
BASIN-SURVEYS



OXY USA Inc.

P.O. Box 50250, Midland, TX 79710-0250

March 2, 1998

United States Department of the Interior
Bureau of Land Management
Roswell District Office
2909 West Second Street
Roswell, New Mexico 88201

Re: Application for Permit to Drill
OXY USA Inc.
OXY Roscoe Federal Com. #1
Eddy County, New Mexico
Lease No. NM028375

Gentlemen:

OXY USA Inc. respectfully requests permission to drill our OXY Roscoe Federal #1 located 1540 FNL and 1760 FEL of Section 4, T17S, R27E, Eddy County, New Mexico, Federal Lease No. NM028375. The proposed well will be drilled to a TD of approximately 9250' (TVD). The location and work area have been staked. It is approximately 10 miles east of Artesia, 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 February 10, 1998.
3. The elevation of the unprepared ground is 3448 feet above sea level.
4. The geologic name of the surface formation is Permian Rustler.
5. Rotary drilling equipment will be utilized to drill the well to TD 9250' (TVD), and run casing. This equipment will then be rigged down and the well will be completed with a pulling unit.
6. Proposed total depth is 9250' TVD.

APD - OXY Roscoe Federal #1

Page 2

7. Estimated tops of important geologic markers.

Yates	180' TVD
Premier Sand	1400' TVD
Wolfcamp	6800' TVD
Cisco	7800' TVD
Morrow	8750' TVD

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

Primary Objective: Morrow 8750' TVD

Secondary Objective: Wolfcamp 6800' TVD

9. The proposed casing program is as follows:

Surface: 13-3/8" OD 48# H40 ST&C new casing set at 400'

Intermediate: 8-5/8" OD 24# K55 ST&C new casing from 0 to 1800'

Production: 4-1/2" OD 11.6# N80 LT&C new casing from 0 to 9250'

10. Casing setting depth and cementing program:

- A. 13-3/8" surface casing set at 400', or the top of the Rustler Anhydrite, in 17-1/2" hole. Circulate cement with 220sx 35:65 POZ/Class C with 6% gel + 2% CaCl₂ + 0.25 #/sx Cello-Seal and 200sx Class C with 2% CaCl₂.

If cement does not circulate, a temperature survey will be run to find the TOC and then finish cementing to surface through 1" using Class C with 2% CaCl₂.

- B. 8-5/8" intermediate casing set at 1800' in 11" hole. Circulate cement with 315sx 35:65 POZ/Class C with 6% gel + 5% salt + 0.25 #/sx Cello-Seal and 200sx Class C with 2% CaCl₂.

If hole conditions dictate, a DV tool may be run to ensure that the intermediate string is cemented to surface.

If cement does not circulate, a temperature survey will be run to find the TOC and then finish cementing to surface through 1" using Class C with 2% CaCl₂.

Note: Cement volumes may be adjusted according to fluid caliper.

- C. 4-1/2" production casing set at 9250'. Cement with 642sx Super "C" Modified cement with 0.5#/sx FL-25 + 0.2 #/sx CD-32 + 0.5 #/sx gilsonite.

Estimated top of cement is 6500'.

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

11. Pressure Control Equipment

0' - 400'	None
400' - 1800'	13-3/8" 5000# ram type preventers with one set blind rams and one set pipe rams and a 5000# annular preventer.
1800' - 9250'	13-3/8" 5000# ram type preventers with one set blind rams and one set pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000'. Exhibit A.

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 5000 psi. Any equipment failing to test satisfactorily shall be repaired or replaced. Results of the BOP test will be recorded in the Driller's Log. The BOP's 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/native mud. Wt.8.7-9.2 ppg, vis 32-34 sec, Lime for pH control (9-10). Paper for seepage. Lost circulation may be encountered.
400' - 1800'	Brine water. Wt. 10.0-10.1 ppg, vis 28-29 sec. Add 10# brine as make-up to avoid excessive washouts in salt stringers. Caustic for pH control (10-10.5). Paper for seepage. Lost circulation may be encountered.
1800' - 6000'	Fresh water. Wt. 8.4 ppg, vis 28-29 sec, caustic for pH control (9-9.5). Paper for seepage.
6000' - 9000'	Cut brine. Wt. 9.2 - 9.4 ppg, vis 28-29 sec, caustic for pH control.
9000' - 9250'	Mud up with an XCD Polymer mud system with the following characteristics: Wt. 9.0 - 9.6 ppg, Vis 32-34sec, WL 8cc.

Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the Wolfcamp formation. This equipment will remain in use until the production casing is run and cemented. Monitoring equipment shall consist of the following:

- 1) A recording pit level indicator.
- 2) A pit volume totalizer.
- 3) A flowline sensor.

APD - OXY Roscoe Federal #1

Page 5

13. Testing, Logging and Coring Program:
 - A. Testing program: No DST's are anticipated.
 - B. Mud logging program: One man unit from 6000' to TD.
 - C. Electric logging program: CNL/LDT/CAL/GR, DLL/CAL/GR.
 - D. Coring program: Possible sidewall rotary cores.
14. No abnormal temperatures, or H₂S gas are anticipated. The highest anticipated pressure gradient would be .55psi/ft. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.
15. Anticipated starting date is August 5, 1998. It should take approximately 28 days to drill the well and another 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,



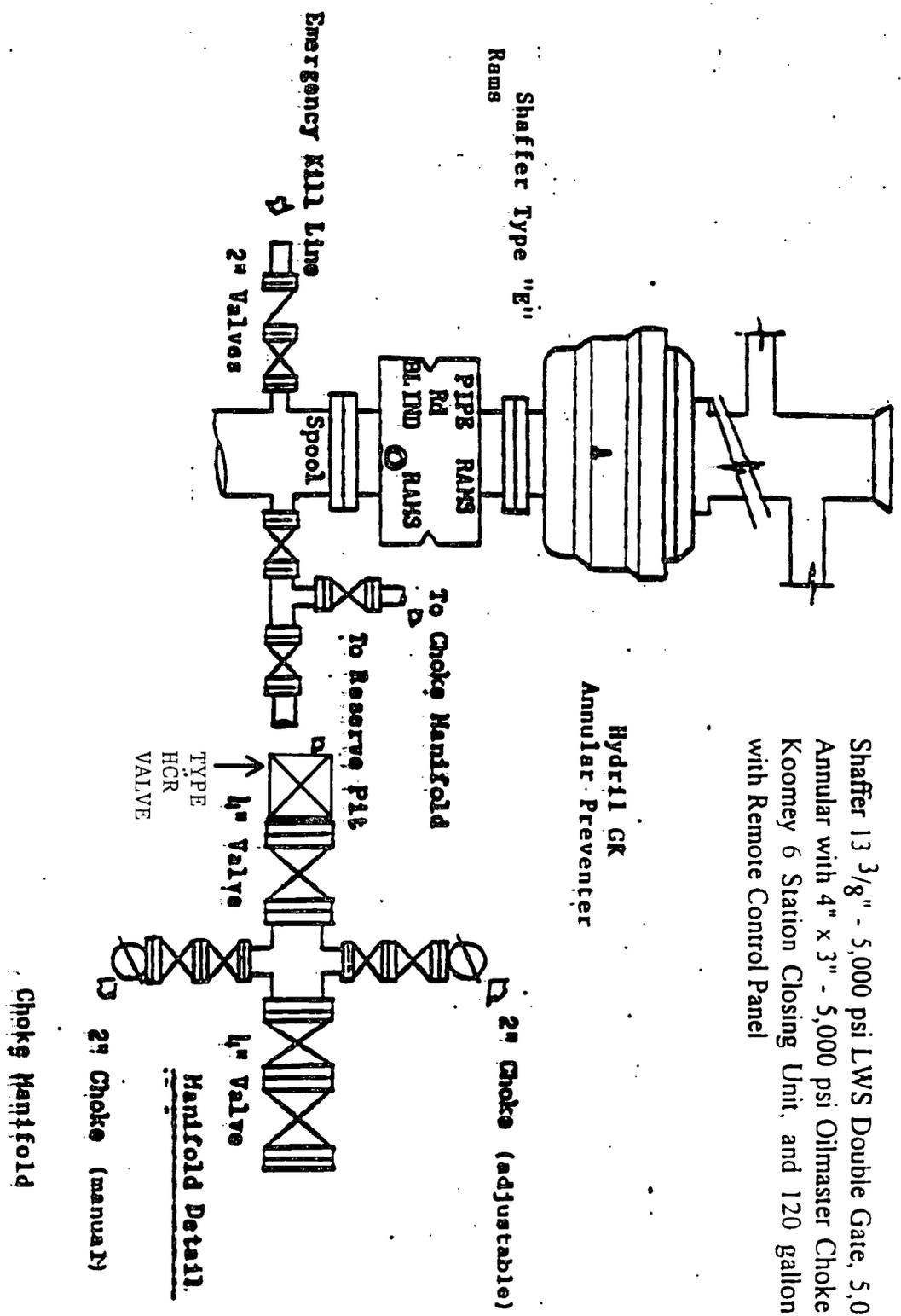
David Stewart
Regulatory Analyst
OXY USA Inc.

DRS/drs

Attachments

BLOWOUT PREVENTOR SCHEME

EXHIBIT A



Shaffer 13 3/8" - 5,000 psi LWS Double Gate, 5,000 psi Shaffer Annular with 4" x 3" - 5,000 psi Oilmaster Choke Manifold and Koomey 6 Station Closing Unit, and 120 gallon Accumulator with Remote Control Panel

Hydril GK
Annular Preventer

2" Choke (adjustable)

4" Valve

Handfold Detail

Choke Manifold

Emergency Kill Line

To Reserve Pit

To Choke Manifold

Shaffer Type "E"

Rams

Spool

2" Valves

PIPE RAMS
BLIND RAMS

TYPE HCR VALVE

4" Valve

2" Choke (manual)

Choke Manifold

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
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OIL CONSERVATION DIVISION

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

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

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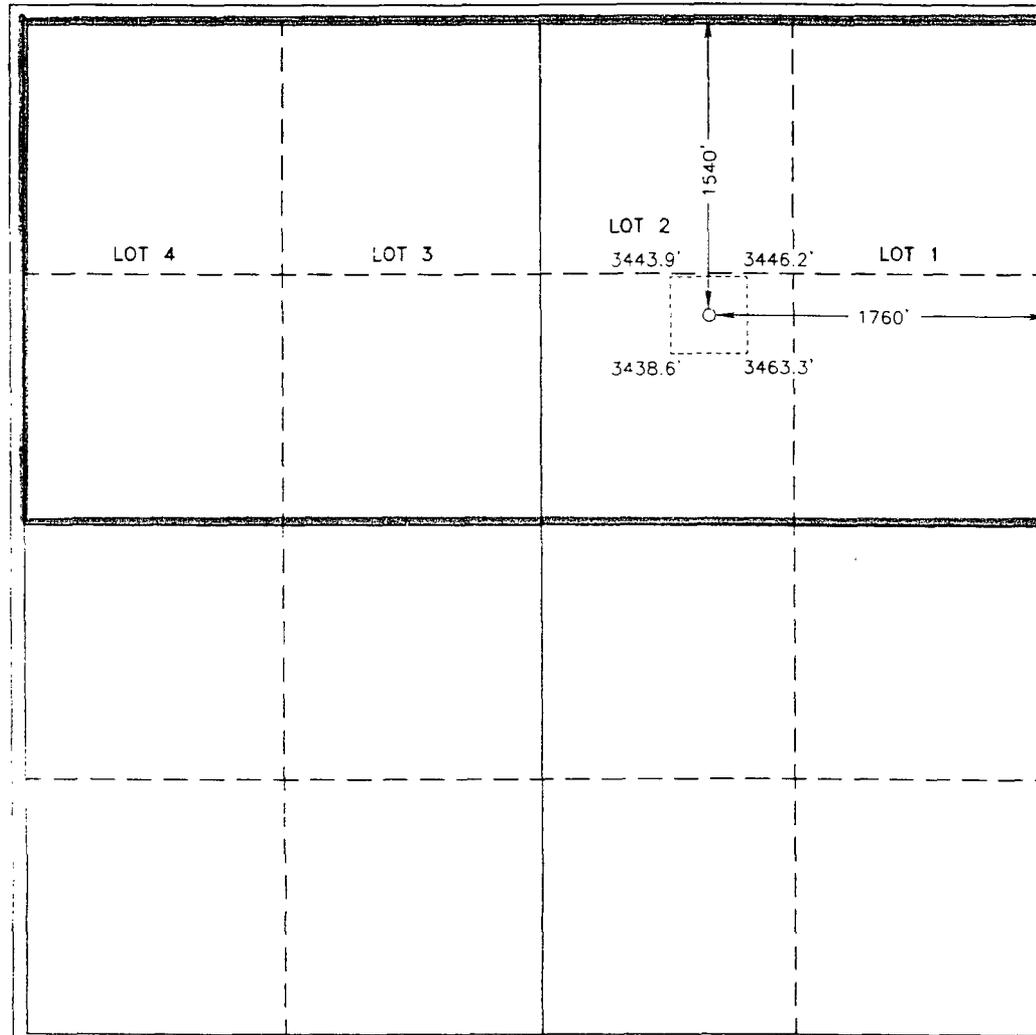
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Dedicated Acres 320	Joint or Infill N	Consolidation Code	Order No.
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OPERATOR CERTIFICATION

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

David Stewart
Signature
David Stewart
Printed Name
Regulatory Analyst
Title
3/2/98
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 supervision and that the same is true and correct to the best of my belief.

February 10, 1998

Date Surveyed
Signature & Seal of Professional Surveyor
Certificate No. GARY L. JONES 7977
7977
No. 80720
Certificate No. GARY L. JONES 7977
BASIN SURVEYS

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

OXY USA Inc.
OXY Roscoe Federal #1
Eddy County, New Mexico
Lease No. NM028375

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to identify the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal may be made of the environmental effects associated with the operation.

The well, and work area have been staked by a registered New Mexico land surveyor. Mariah Associates, Inc. have been engaged to make an archaeological reconnaissance of the work area. Their findings concerning cultural resources will be reported to the Bureau of Land Management.

1. Existing Roads

A copy of a USGS "Spring Lake & Red Lake, New Mexico" quadrangle map is attached showing the proposed location. The well location is spotted on this map, which also shows the existing road system. Exhibit B.

Directions to location:

From Hobbs, New Mexico, go west on US Hwy 62/180 to ST Hwy 529, take 529 to ST Hwy 82. Turn west on 82, go through Loco Hills to .5 miles west of mile marker 115. Turn north on new caliche road and continue north 1.75 miles until road dead ends, turn west .8 miles. Turn north and go 1 mile to location.

2. Planned Access Road

- A. A new access road will built. The access road will run approximately 1519' northeast and 1981' northwest from an location. Exhibit B.
- B. Surfacing material: Six inches of caliche and water, compacted and graded.
- C. Maximum Grade: Less than 3%
- D. Turnouts: None needed.
- E. Drainage Design: N/A.

Multi-Point Surface Use and Operations Plan
OXY Roscoe Federal #1
Page 2

- F. Culverts: None needed.
 - G. Cuts and Fills: Leveling the location will require minimal cuts or fills.
 - H. Gates or Cattleguards: None required.
3. Existing wells within a one mile radius of the proposed development well are shown on Exhibit C.
4. Location of Existing and/or Proposed Facilities
- A. If the well is productive, production facilities will be constructed on the well pad. The facility will consist of a stack pack, one 300 bbl oil tank and one 300 bbl fiberglass water tank. All permanent above ground facilities will be painted in accordance with the BLM's painting guidelines simulating the color of sandstone brown.
 - B. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to and a site security plan will be submitted for the OXY Roscoe Federal #1 tank battery. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.
5. Location and Type of Water Supply
- Fresh water and brine water will be used to drill this well. It will be purchased from a supply in Loco Hills and transported to the well site.
6. Source of Construction Materials
- Caliche for surfacing the well pad will be obtained from a Federal pit located in Section 21, T17S, R31E, Eddy County, New Mexico.
7. Method of Handling Waste Disposal
- A. Drill Cuttings will be disposed of in drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.

**Multi-Point Surface Use and Operations Plan
OXY Roscoe Federal #1**

Page 3

- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be collected in steel trash bins and removed after drilling and completion operations are completed. All waste material will be contained to prevent scattering by the wind.
- F. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. Ancillary Facilities

- A. None needed.

9. Wellsite Layout

- A. The location and dimensions of the well pad, mud pits, reserve pit and location of major rig components are shown on the well site layout sketch. The V-door will be to the south and the pits to the east. Exhibit D.
- B. Leveling of the wellsite will be required with minimal cuts or fills anticipated.
- C. The reserve pit will be plastic lined.
- D. The pad and pit area have been staked and flagged.

10. Plans for Restoration of the Surface

- A. After completion of drilling and/or completion operations, all equipment and other materials not needed for operations will be removed.
- B. Pits will be filled and location cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible. Any plastic material used to line the pits or sumps will be cut off below ground level as far as possible and disposed of before the pits are covered. All attended pits containing liquid will be fenced and the liquid portion allowed to evaporate before the pits are broken and backfilled.
- C. After abandonment of the well, surface restoration will be in accordance with the landowner. This will be accomplished as expeditiously as possible. Barring unforeseen problems, all pits will be filled and leveled within 90 days after abandonment.

Multi-Point Surface Use and Operations Plan
OXY Roscoe Federal #1
Page 4

11. Surface Ownership

The wellsite is on Federal owned surface. The surface is leased to:
Bogle Ltd. P.O. Drawer 460 Dexter, NM 88230.
They will be notified of our intention to drill prior to any activity.

12. Other Information

- A. Topography: The location is a flat plain. GL elevation is 3448'.
- B. Soil: Sandy clay loams.
- C. Flora and Fauna: The vegetative cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial native range grasses. Wildlife in the area is also sparse consisting of coyotes, rabbits, rodents, reptiles, dove and quail.
- D. Ponds and Streams: There are no rivers, streams, lakes or ponds in the area.
- E. Residences and Other Structures: The nearest dwelling is over 4 miles away.
- F. Archaeological, Historical and Cultural Sites: Cultural resources have been recorded in the area. TRC Mariah Associates, Inc. will be engaged to make an archaeological reconnaissance of the work area.
- G. Land Use: Cattle ranching.
- H. The well site, if a producer, will be maintained and kept clean of all trash and litter which distracts from the surrounding environment. Equipment will be maintained in accordance with good operating practice.
- I. After the wellsite is cleaned and pits and sumps backfilled, any obstruction to the natural drainage will be corrected by ditching or terracing. All disturbed areas, including any access road no longer needed, will be ripped. Those areas will be reseeded with grass if, in the opinion of the land owner, it is required.

Multi-Point Surface Use and Operations Plan
OXY Roscoe Federal #1
Page 5

13. Operator's Representatives and Certification

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

Joe Gibson, Production Coordinator
P.O. Box 69
Hobbs, New Mexico 88240
Office Phone: 505-393-2174
Home Phone: 505-392-4988

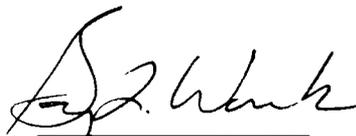
John Stinson - Engineering Tech
P.O. Box 1387
Carlsbad, New Mexico 88221
Mobile Phone: 505-370-4506

Kelly L. Stark – Operations Lead
P.O. Box 50250
Midland, Texas 79710
Office Phone: 915-685-5872
Home Phone: 915-683-9205

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 OXY USA Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

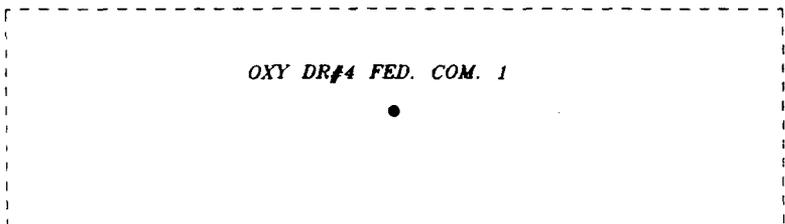
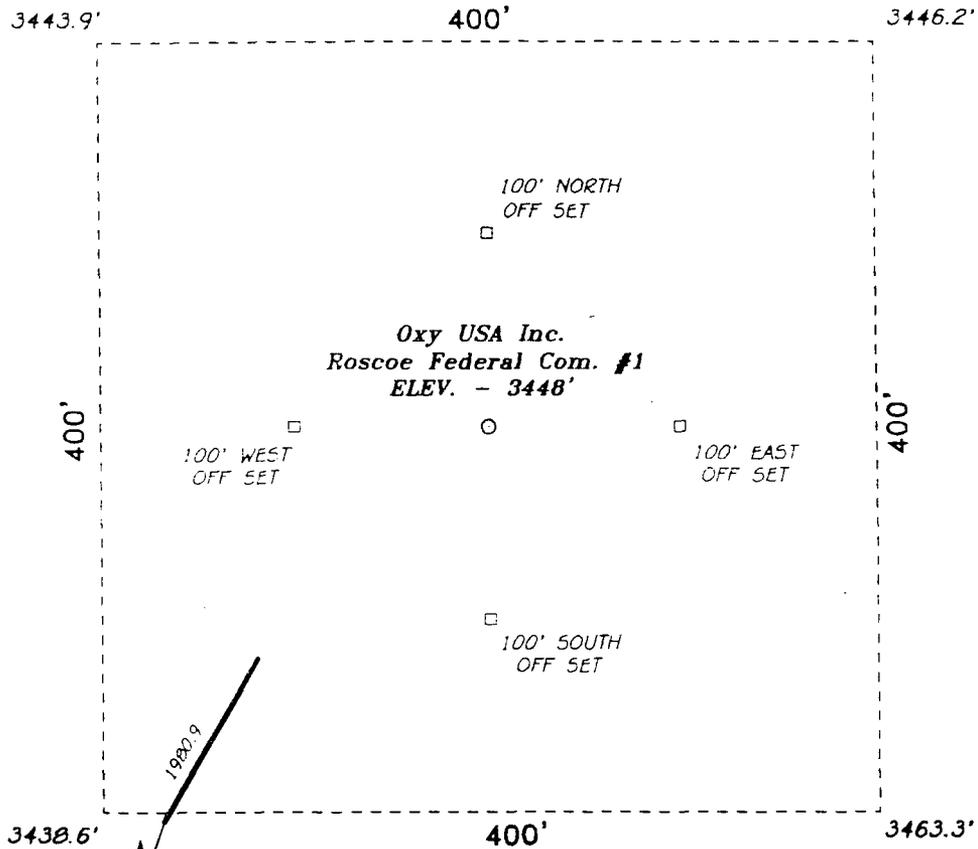
3-2-98

DATE



Gary L. Womack
Operations Engineer
OXY USA Inc.

SECTION 4, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



SCALE: 1" = 100'

Oxy USA Inc.

REF: Roscoe Fed. Com #1 / Well Pad Topo

THE ROSCOE FED. COM. No. 1 LOCATED 1540' FROM THE
NORTH LINE AND 1760' FROM THE EAST LINE OF
SECTION 4, TOWNSHIP 17 SOUTH, RANGE 27 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 8072

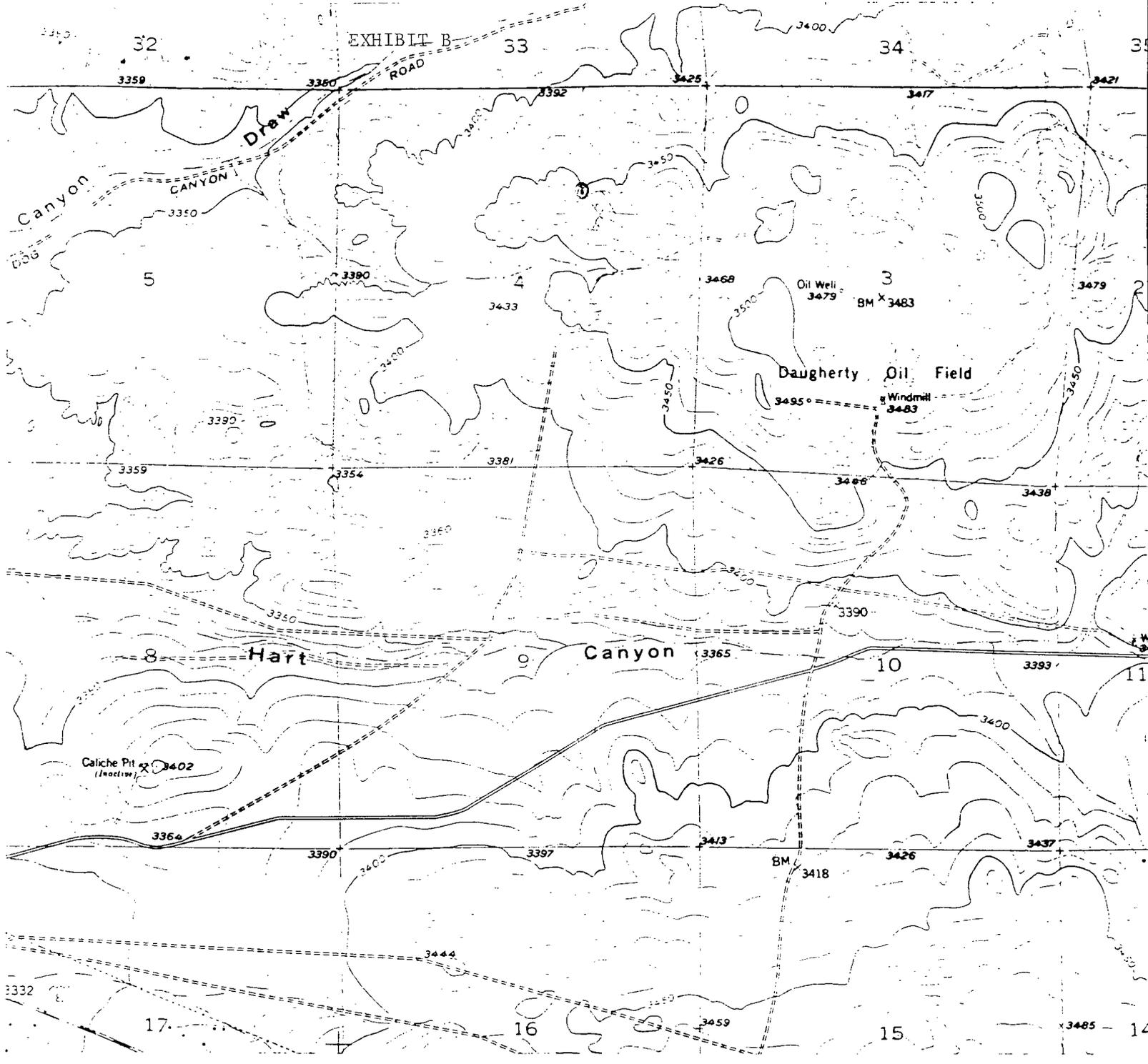
Drawn By: K. GOAD

Date: 02-11-98

Disk: KJG #89 - 8072A.DWG

Survey Date: 02-10-98

Sheet 1 of 1 Sheets



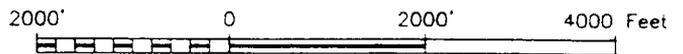
OXY USA INC.
 ROSCOE FED. COM. #1
 1540' FNL & 1760' FEL
 Sec. 4, T-17-S, R-27-E,
 Eddy County, New Mexico.



SCALE: 1"=2000'

BASIN SURVEYS

P.O. BOX 1786 - HOBBS, NEW MEXICO



W.O. Number: 8072	Drawn By: K. GOAD	Survey Date: 02-10-98	Sheet 1 of 1 Sheets
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18

17

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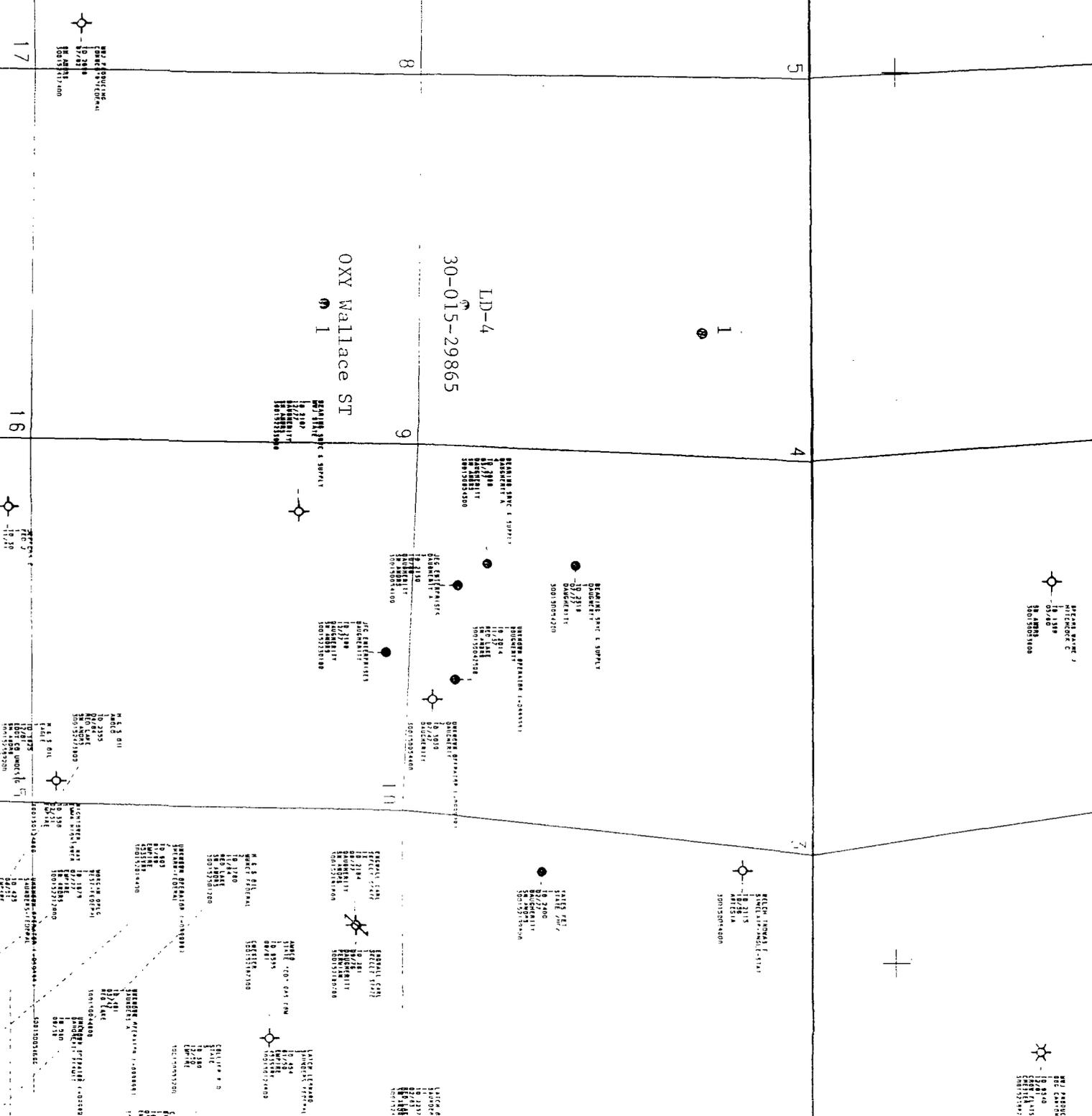
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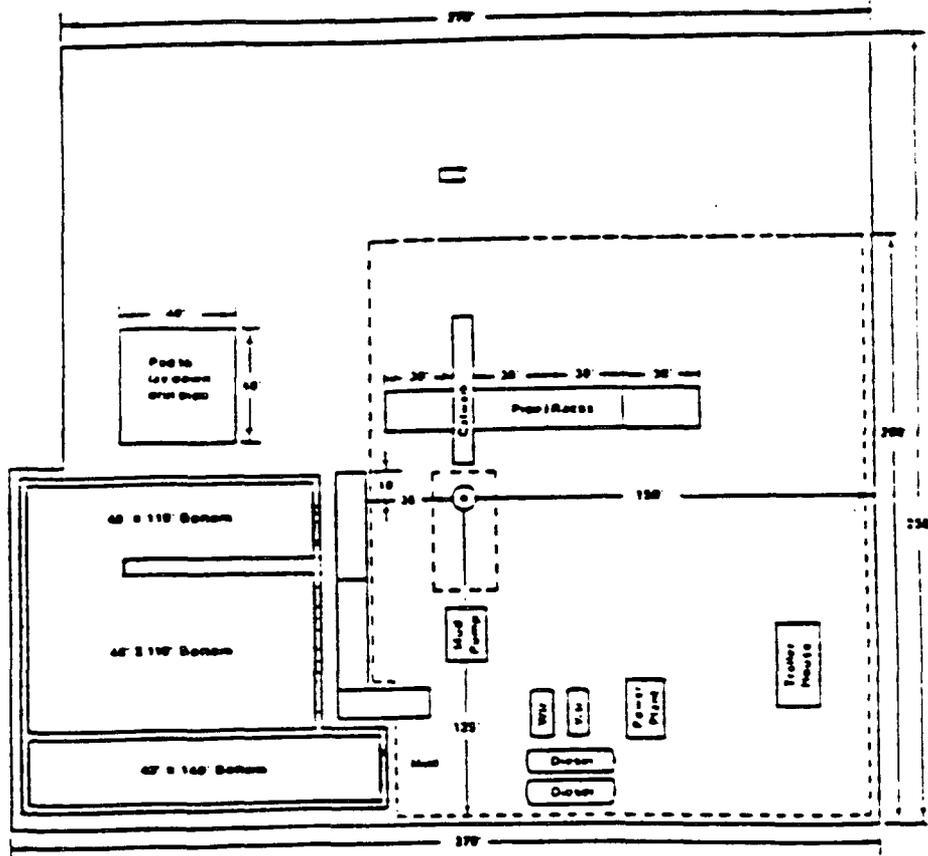


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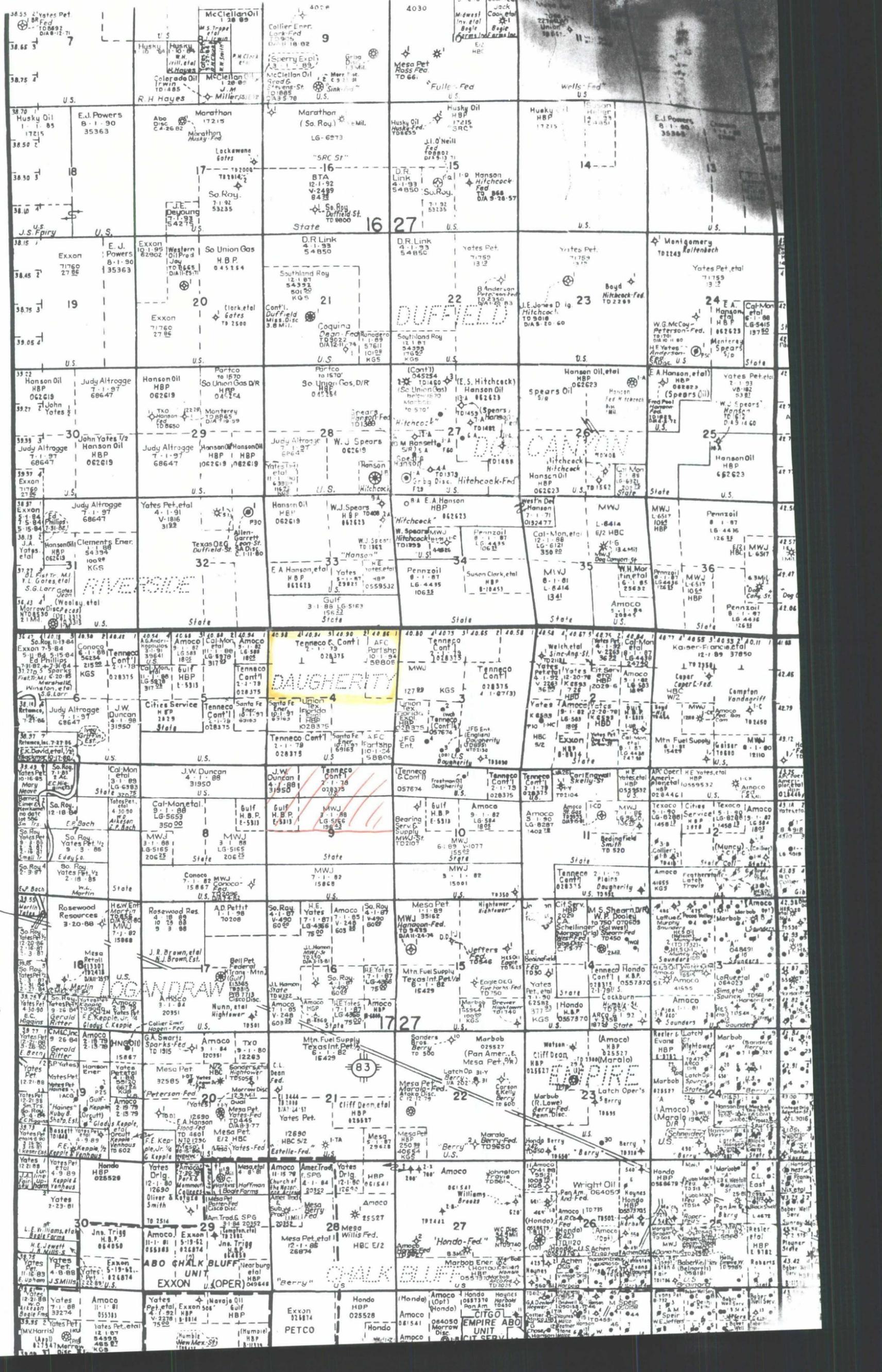
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EXHIBIT D
LOCATION PLAN



T 16 S

T 17 S



to Artesia