

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM0925		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR OXY USA Inc. 16696 16696			7. UNIT AGREEMENT NAME 24873		
3. ADDRESS AND TELEPHONE NO. P.O. Box 50250 Midland, TX 79710-0250 915-685-5717			8. FARM OR LEASE NAME WELL NO. OXY Lion Federal #2		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 880 FNL 660 FWL NWNW(D) At proposed prod. zone			9. AM WELL NO. 30-015- 31195		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6 miles southeast of Loca Hills, NM			10. FIELD AND POOL, OR WILDCAT Turkey Track Morrow, North		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 660			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 20 T18S R29E		
16. NO. OF ACRES IN LEASE 320			12. COUNTY OR PARISH 13. STATE Eddy NM		
17. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2750'			17. NO. OF ACRES ASSIGNED TO THIS WELL 320		
18. PROPOSED DEPTH 11300'			20. ROTARY OR CABLE TOOLS R		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3561'			22. APPROX. DATE WORK WILL START* 6/15/00		

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H40	48#	400'	360sx - Circulate
12-1/4"	9-5/8" K55	36#	3200'	850sx - Circulate
7-7/8"	5-1/2" N80-S95	17#	11300'	775sx - Est TOC-8000'

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

See other side

RECEIVED

APR 20 '00

BLM  
ROSWELL, NM

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 David Stewart TITLE Regulatory Analyst DATE 4/18/00  
(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 (Signature) ARMANDO A. LOPEZ TITLE \_\_\_\_\_ DATE JUN 19 2000

\*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 statement.

APPROVED FOR 1 YEAR

OXY Lion Federal #2  
880 FNL 660 FWL SEC 20 T18S R29E Eddy County, NM  
Federal Lease No. NM0925

PROPOSED TD: 11300' TVD

BOP PROGRAM: 0' - 400' None

400' - 3200' 13-5/8" 5M blind and pipe rams with 5M annular preventer.

3200' - 11300' 11" 5M blind pipe rams with 5M annular preventer and rotating head below 8300'.

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

Intermediate: 9-5/8" OD 36# K55 ST&C new casing from 0-3200'

Production: 5-1/2" OD 17# N80-S95 LT&C new casing from 0-11300'  
N80-9500' S95-1800'

CEMENT: Surface - Circulate cement with 160sx 35:65 POZ/C with 6% Bentonite + 2% CaCl<sub>2</sub> + .25#/sx Cello-Seal followed by 200sx Cl C with 2% CaCl<sub>2</sub>.

Intermediate - Circulate cement with 650sx 35:65 POZ/C with 6% Bentonite + 2% CaCl<sub>2</sub> + .25#/sx Cello-Seal followed by 200sx Cl C with 2% CaCl<sub>2</sub>.

Production - Cement with 700sx 15:61:11 POZ/C/CSE with .5% FL-52 + .5% FL-25 + 8#/sx Gilsonite followed by 75sx Cl C with .7% FL-25. Estimated top of cement is 8000'.

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

MUD: 0 - 400' Fresh water/native mud. Lime for pH control (9-10). Paper for seepage.  
Wt 8.7-9.2 ppg, Vis 32-34 sec

400' - 3200' Fresh/\*Brine water. Lime for pH control (10.0-10.5). Paper for seepage.  
Wt 8.3-9.0/10.0-10.1ppg, Vis 28-29 sec  
\*Fresh water will be used unless chlorides in the mud system increases to 20000PPM.

3200' - 8300' Fresh water. Lime for pH control (9-9.5). Paper for seepage.  
Wt 8.3-8.5 ppg, Vis 28-29 sec

8300' - 9900' Cut brine. Lime for pH control (10-10.5).  
Wt 9.6-10.0 ppg, Vis 28-29sec

9900' - 11300' Mud up with an Duo Vis/Flo Trol mud system.  
Wt 9.6-10.0ppg, Vis 32-36sec, WL<10cc

DISTRICT I  
1625 N. French Dr., Hobbs, 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 87506

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 86500	Pool Name Turkey Track Morrow, North
Property Code 24873	Property Name OXY LION FEDERAL	Well Number 2
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3561'

Surface Location

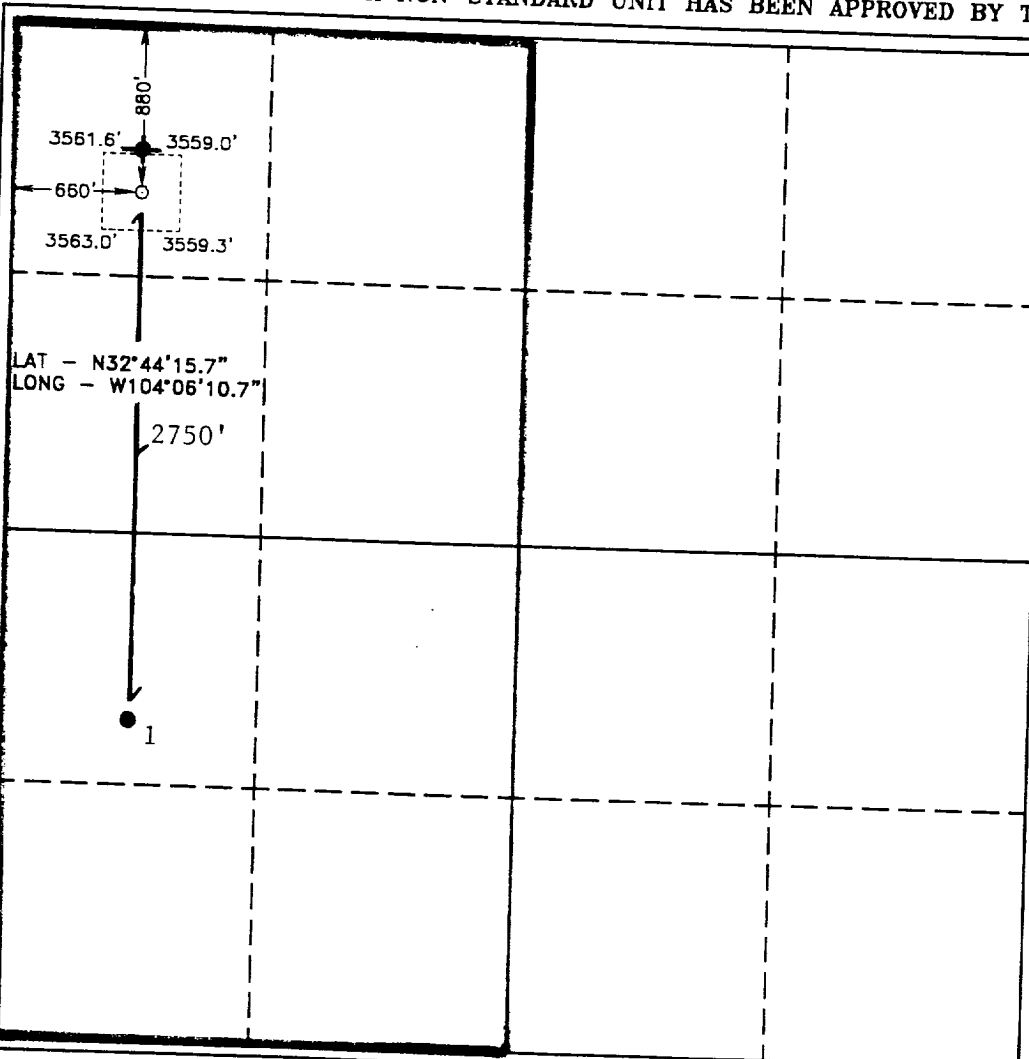
UL or lot No. D	Section 20	Township 18 S	Range 29 E	Lot Idn	Feet from the 880	North/South line NORTH	Feet from the 660	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 320	Joint or Infill Y	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

4/16/00  
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.

March 23, 2000

Date Surveyed  
Signature & Seal of  
Professional Surveyor

GARY L. JONES  
W.O. No. 0142A

Certificate No. Gary L. Jones 7977

BASIN SURVEYS



**N. M. Oil Co. Division**  
Eddy County  
Albuquerque

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

April 18, 2000

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 Lion Federal #2  
Eddy County, New Mexico  
Lease No. NM0925

Gentlemen:

OXY USA Inc. respectfully requests permission to drill our OXY Lion Federal #2 located 880 FNL and 660 FWL of Section 20, T18S, R29E, Eddy County, New Mexico, Federal Lease No. NM0925. The proposed well will be drilled to a TD of approximately 11300' (TVD). The location and work area has been staked. It is approximately 6 miles southeast of Loco Hills, 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 March 23, 2000.
3. The elevation of the unprepared ground is 3561 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 11300' (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 11300' TVD.
7. Estimated tops of important geologic markers.

Wolfcamp	8590' TVD
Strawn	10010' TVD
Atoka	10350' TVD
Morrow	10590' TVD

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

Primary Objective: Morrow 10590' TVD

Secondary Objective: Atoka 10350' TVD

- 3200' - 11300' 11" 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 8500'. 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 9-5/8" 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. Lime for pH control (9-10). Paper for seepage. Wt. 8.7-9.2 ppg, vis 32-34 sec.
400' - 3200'	Fresh/*brine water. Lime for pH control (10-10.5). Paper for seepage. Wt. 8.3-9.0/10.0-10.1 ppg, vis 28-29 sec. *Fresh water will be used unless chlorides in the mud system increase to 20000PPM.
3200' - 8300'	Fresh water. Lime for pH control (9-9.5). Paper for seepage. Wt. 8.3-8.5 ppg, vis 28-29 sec.
8300' - 9900'	Cut brine. Lime for pH control (10-10.5). Wt. 9.6-10.0 ppg, vis 28-29 sec.
9900' - 11300'	Mud up with an Duo Vis/Flo Trol system. Wt. 9.6-10.0 ppg, Vis 32-36sec, WL<10cc.

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.

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 H<sub>2</sub>S 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 June 30, 2000. 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,



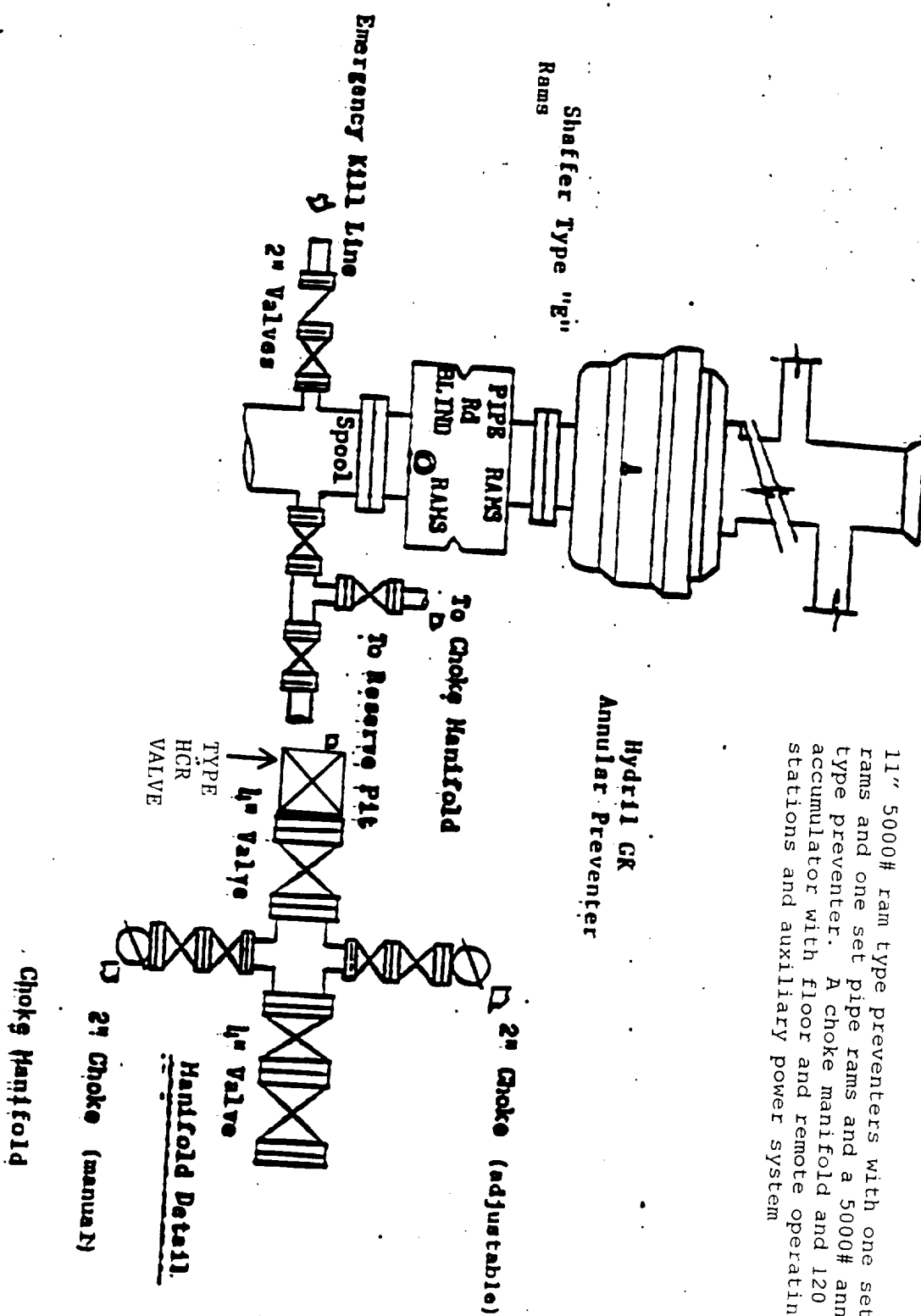
David Stewart  
Regulatory Analyst  
Permian Asset Group  
OXY USA Inc.

DRS/drs

Attachments

EXHIBIT A

11" 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





## MULTI-POINT SURFACE USE AND OPERATIONS PLAN

OXY USA Inc.  
OXY Lion Federal #2  
Eddy County, New Mexico  
Lease No. NM0925

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. Desert West has 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 "Red Lake, SE 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 the junction of SH 360 & CR 217, go southwest on CR 217, ½ mile to lease road. Go east on lease road approximately .25 miles to the proposed location.

### 2. Planned Access Road

- A. No new access road will be built. Exhibit B.
- B. Surfacing material: N/A
- C. Maximum Grade: N/A
- D. Turnouts: N/A
- E. Drainage Design: N/A
- F. Culverts: N/A
- G. Cuts and Fills: N/A
- H. Gates or Cattleguards: N/A

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.

Multi-Point Surface Use and Operations Plan  
OXY Lion Federal #2

Page 2

- 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 Lion Federal #2 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 12, T20S, R27E, 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.
- 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 east and the pits to the north. 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. While constructing the pits and material is encountered at a depth which would not allow the pits to meet the BLM stipulations without blasting, OXY requests a variance. There will be an adequate amount of material to reclaim the pit per the stipulations.
- E. 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 unattended 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 land owner. This will be accomplished as expeditiously as possible. Barring unforeseen problems, all pits will be filled and leveled within 90 days after abandonment.

11. Surface Ownership

The wellsite is on Federal owned surface. The surface is leased to: Bogle LTD., P.O. Box 460, Dexter, NM 88230-0460. 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 3561'.
- 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: There are no occupied dwellings within a 2 mile radius of the location.
- F. Archaeological, Historical and Cultural Sites: Cultural resources have been recorded in the area. Desert West 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 detracts 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.

13. Operator's Representatives and Certification

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

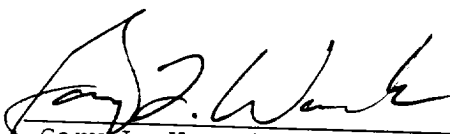
Joe Gibson, Production Coordinator  
P.O. Box 69  
Hobbs, New Mexico 88240  
Office Phone: 505-393-2174  
Home Phone: 505-390-4988

Joe Fleming  
P.O. Box 50250  
Midland, TX 79710-0250  
Office Phone: 915-685-5858

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.

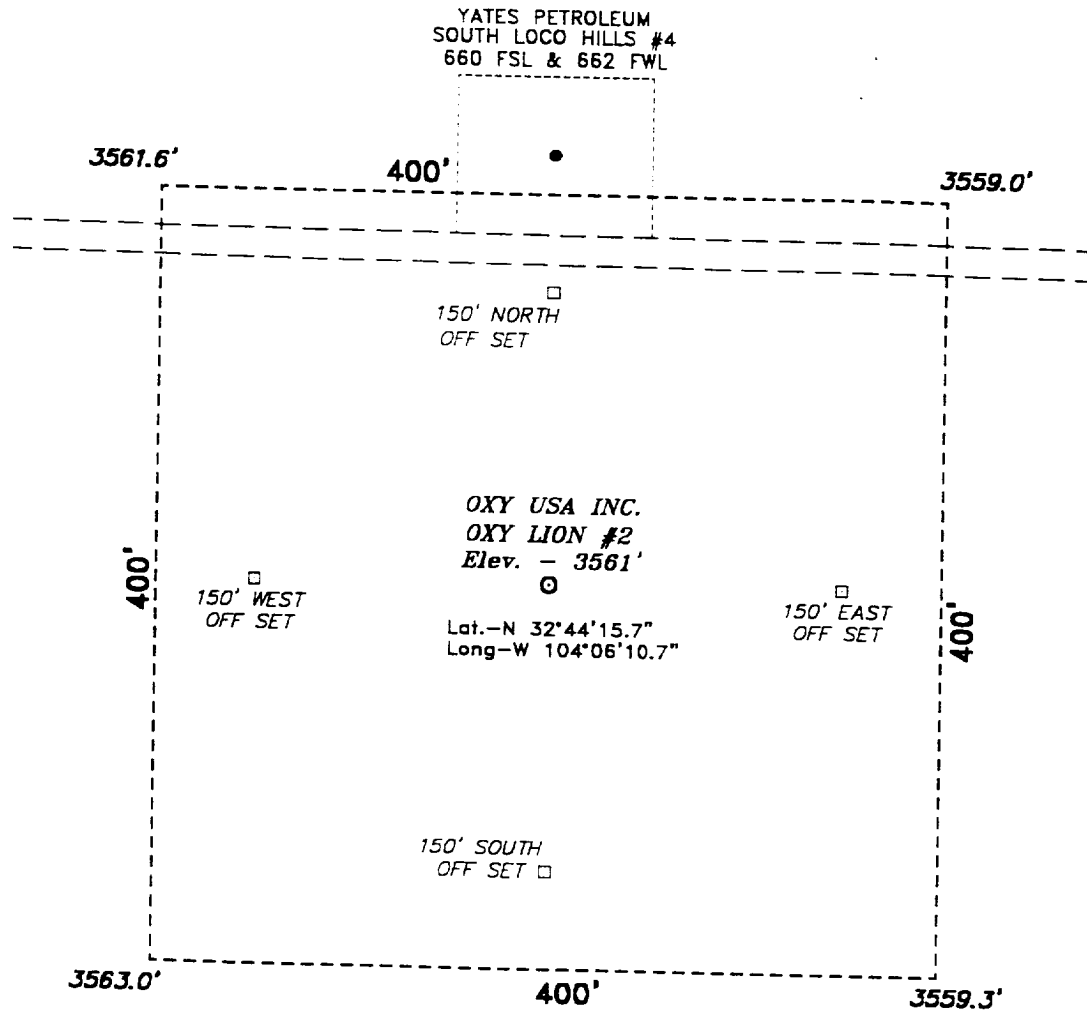
4-18-2000

DATE



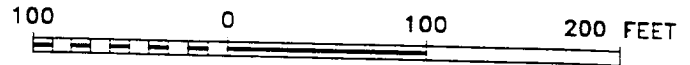
Gary L. Womack  
Operations Engineer  
915-685-5772  
Permian Asset Group  
OXY USA Inc.

SECTION 20, TOWNSHIP 18 SOUTH, RANGE 29 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF STATE HWY 360 AND CO.  
RD. 217, GO SOUTHWEST ON CO. RD. 217 APPROX.  
0.5 MILE TO A LEASE ROAD; THENCE EAST ON LEASE  
ROAD APPROX. 0.25 MILE TO THE PROPOSED WELL  
LOCATION.



SCALE: 1" = 100'

**Oxy USA Inc.**

REF: Oxy Lion No. 2 / Well Pad Topo

THE OXY LION No. 2 LOCATED 880' FROM  
THE NORTH LINE AND 660' FROM THE WEST LINE OF  
SECTION 20, TOWNSHIP 18 SOUTH, RANGE 29 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

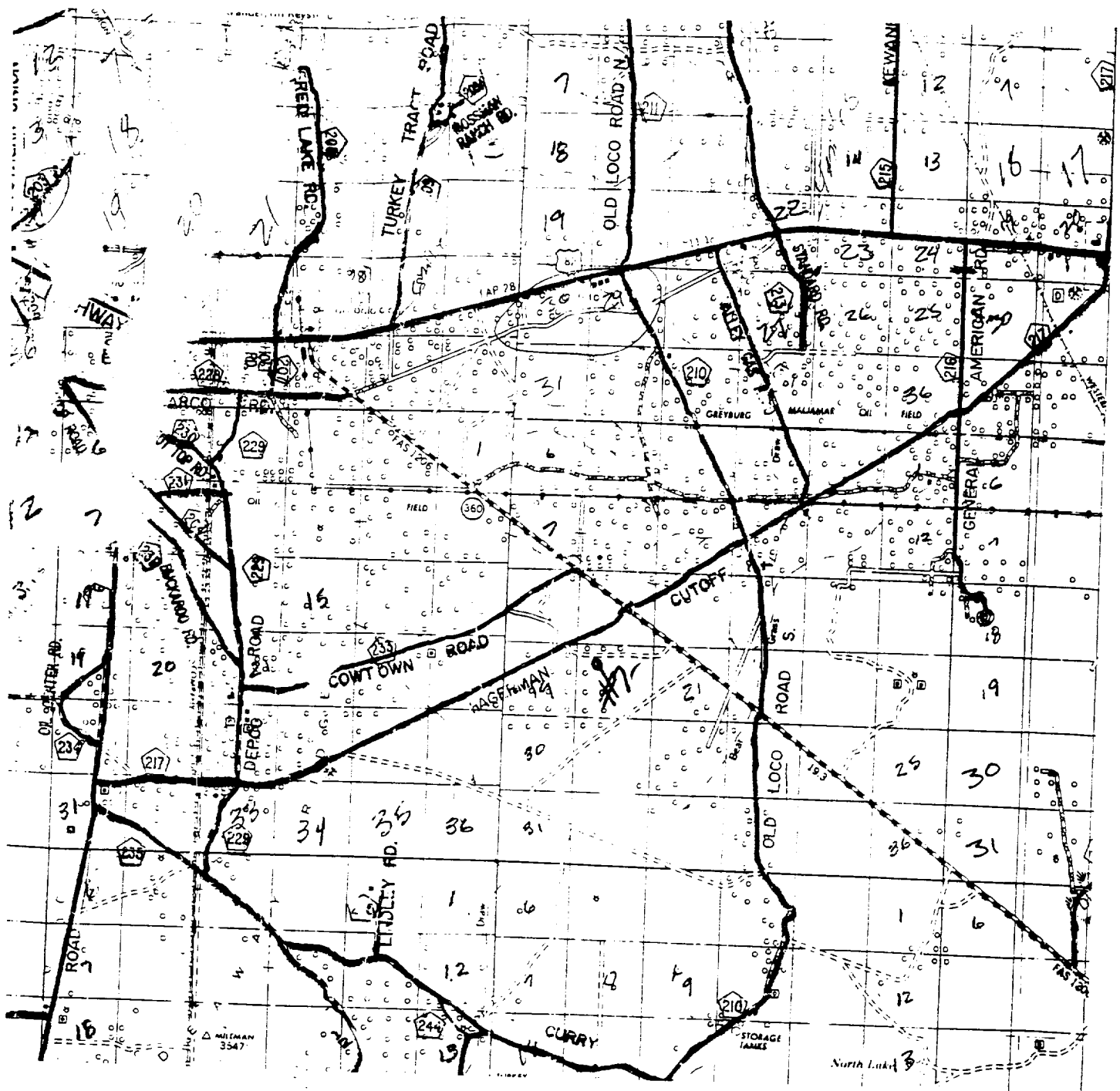
**Basin Surveys** P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 0142 Drawn By: K. GOAD

Date: 03-28-2000 Disk: KJG #122 - 0142A.DWG

Located at 880' FNL and 660' FWL  
Section 20, Township 18 South, Range 29 East,  
N.M.P.M., Eddy County, New Mexico.

OXY USA INC.



### OXY LION #2

Located at 880' FNL and 660' FWL  
 Section 20, Township 18 South, Range 29 East,  
 N.M.P.M., Eddy County, New Mexico.

**basin**  
**surveys**  
 focused on excellence  
 in the oilfield

P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (505) 393-7316 - Office  
 (505) 392-3074 - Fax  
 basinsurveys.com

W.O. Number: 0142AA - KJG #122

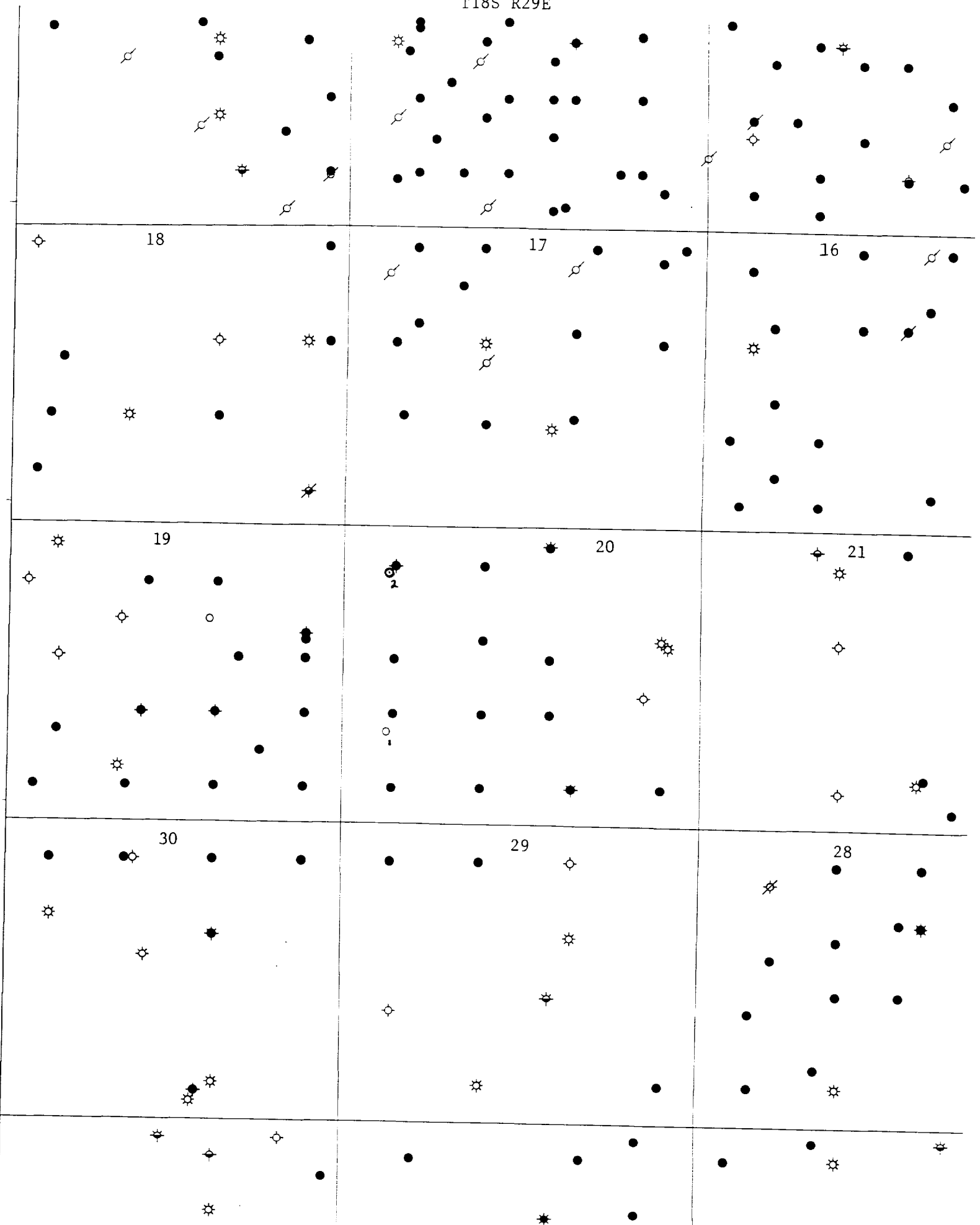
Survey Date: 03-23-2000

Scale: 1" = 2 MILES

Date: 03-28-2000

OXY USA INC.

EXHIBIT C  
T18S R29E





The site plan shows a rectangular area with a dashed boundary. Key features include:

- Top Left:** A rectangular structure labeled "Pad to lay down drill pipe" with dimensions 40' by 40'.
- Bottom Left:** Three rectangular structures labeled "40' x 110' Storage", "40' x 110' Storage", and "40' x 140' Storage".
- Center:** A "Mud Pump" structure. Above it is a "Casing" structure with dimensions 30' by 30' by 30' by 30'. To the right of the casing is a "Pre-Mixer" structure.
- Bottom Center:** A "Mud" structure.
- Bottom Right:** Two "Drum" structures, a "Pump/Plant" structure, and a "Trailer House" structure.
- Dimensions:** The overall width of the site is 270'. The overall height is 230'. A dashed line indicates a 200' width for the main operational area.



# *Desert West*

## ARCHAEOLOGICAL SERVICES, INC.

April 5, 2000

Mr. Gary Womack  
OXY USA, INC.  
P.O. Box 50200  
Midland, TX 79710

Dear Mr. Womack:

Enclosed please find your copy of Desert West Archaeological Services, Inc. (DWAS) archaeological survey report for OXY USA, INC.'s proposed Oxy Lion Federal Well No. 2 (880' FNL, 660' FWL) in Section 20, T18S, R29E, NMPM, Eddy County, New Mexico. This survey was conducted to evaluate any potential effect that OXY USA, INC.'s proposed Oxy Lion Federal Well No. 2 might have on the historic properties.

Four isolated manifestations (IM) were encountered and recorded during this survey. Therefore, we are recommending that archaeological clearance be granted for this undertaking of the proposed Oxy Lion Federal Well No. 2 as presently staked. No further archaeological work should be required unless historic properties are discovered during construction.

An archaeologist at the Bureau of Land Management will review this report and decide whether or not OXY USA, INC. should proceed with this undertaking. Someone should advise you of that decision in that agency.

We appreciate this opportunity to serve you. If you have any questions, or feel that we might of additional service, please call our office.

Sincerely,

Arita Slate

Enclosure

Xc: Mr. Joe Gibson, OXY USA, INC., Hobbs, NM (1)  
Mr. R.F. Fort, Landman, Midland, TX (1)  
Bureau of Land Management, Carlsbad Field Office, Carlsbad, NM (2)

## APPENDIX B.

TITLE PAGE/ABSTRACT/  
NEGATIVE SITE REPORT  
CARLSBAD FIELD OFFICE

BLM/ RDO 1/95

1. BLM Report No.	2. (ACCEPTED)      (REJECTED)	3. NMCRIS No. 67923
4. Title of Report (Project Title): Archaeological survey of Oxy USA Inc.'s proposed Oxy Lion Well No. 2 in Section 20, T18S, R29E, NMPM, Eddy, NM.		5. Project Date(s) 04-05-2000
		6. Report Date - 04-05-2000
7. Consultant Name & Address: Direct Charge: David Wilcox Name: Desert West Archaeological Services Address: P.O. Box 645, Carlsbad, NM 88220 Authors Name: David Wilcox Field personnel names - David Wilcox Phone (505) 887-7646		8. Permit No. 123-2920-99-U NM99-077
		9. Consultant Report No. DWAS 00-08A
10. Sponsor Name and Address: Indiv. Responsible: Mr. Gary Womack Name: Oxy USA Inc. Address: P.O. Box 50250, Midland, TX 79710 Phone (915) 685-5600		11. For BLM Use only.
		12 ACREAGE: Total No. of acres surveyed - 3.67 Per Surface - Ownership: Federal
13. Location & Area: (Maps Attached if negative survey)		
a. State - NM b. County - Eddy c. BLM Field Office: Carlsbad d. Nearest City or town: Loco Hills, New Mexico e. Location: Section 20, T18S, R29E Well Pad footages: 880' FNL; 660' FWL (nw/4, nw/4) f. 7.5' Map Name(s) and Code Numbers(s): Illinois Camp NE, NM (Provisional Edition 1985 [32104-F1]). g. Area: Block: Impact: within the staked area Surveyed: 400' x 400' Linear: Impact: Surveyed:		

14. a. Records Search:

Location: BLM and ARMS

Date: 04-03-2000

Conducted by: Roger Klein

List by LA# All sites within .25 miles of the project:

(Those sites within 500' are to be shown on the project map)

According to these records, there is a previous seismic project in the area (unreadable) that bisects this well pad location.

b. Description of undertaking:

Class III pedestrian survey of Oxy USA Inc.'s proposed Oxy Lion Well No. 2 in Section 20, T18S, R29E, NMPM, Eddy, NM. There is an existing caliche capped lease road that skirts the northern perimeter of this proposed well location.

c. Environmental Setting (NRCS soil designation; vegetative community; etc.)

Vegetation - Assorted grasses, mesquite, snakeweed, cat claw and salt brush.

Topography - The project lies on a southeasterly sloping ridge. Indurated caliche is present throughout the area are a limited amount of alluvial gravels. This ridge overlooks Bear Grass Draw's flood plain towards the southeast. There are mesquite hummocks of low relief with areas between them that have been scoured by sheet-wash. There is an existing caliche capped lease road and surface steel pipeline that are within the northern perimeter of the staked location and run in an east-west tangent. Some old oil/gas field refuse most likely associated with an existing well pad location to the north of this project is present in the northern half of this staked location.

Soils - Simona-Pajarito association: Sandy, deep soils and soils that are shallow to caliche; from wind-worked deposits.

d. Field Methods:

Transect Intervals: straight and zigzag transects, spaced not greater than 15 meters apart

Crew Size: 1

Time in Field: 1 ¼ hours total

Collections: no

Cultural Resource Findings: Four isolated manifestations were encountered and recorded by this undertaking.

I.M. #1 (se/4, sw/4, nw/4, nw/4) Consists of two thermally altered caliche (TAC) fragments with no symmetry or any surface staining.

I.M. #2 (ne/4, sw/4, nw/4, nw/4) Consists of a TAC scatter with no subsurface deposition or surface staining. There seems to be some symmetry; however, this is due mostly to water having redeposited most of this scatter in a low spot within a deflated area of the mesquite hummocks. The scatter consists of approximately 40 fragment to rock sized items.

I.M. #3 (nw/4, se/4, nw/4, nw/4) Consists of a TAC concentration with some symmetry (1 ½ x 1 meters), no surface staining or subsurface deposition. The concentration is found on the bladed caliche capped lease road's corridor, and under the steel pipeline (surface) corridor. This concentration consists of approximately 30 rock to fragment size TAC and is outside the staked 400' x 400' well location area.

I.M. #4 (nw/4, se/4, nw/4, nw/4) Consists of a TAC concentration with some limited symmetry (2 x 2 meters), no surface staining or subsurface deposition. This concentration consists of approximately 25 rock to fragment sized TAC. There is also a discarded quartzite bifacial core with 40% cortex, and the following dimensions: 43 x 34 x 21 mm present. This I.M. is also outside the staked 400' x 400' well location area.

16. Management Summary (Recommendations):

Archaeological clearance for Oxy USA Inc.'s proposed Oxy Lion Well No. 2 in Section 20, T18S, R29E, NMPM, Eddy, NM is recommended as staked.

I maintain that the information provided above is correct and accurate and meets all appreciable BLM standards.


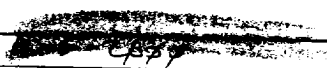
Responsible Archaeologist		
	Signature	Date

Figure 1. Topographic map of USGS 7.5' Series Illinois Camp NE, NM (Provisional Edition 1985) showing the project area in Section 20, T18S, R29E.

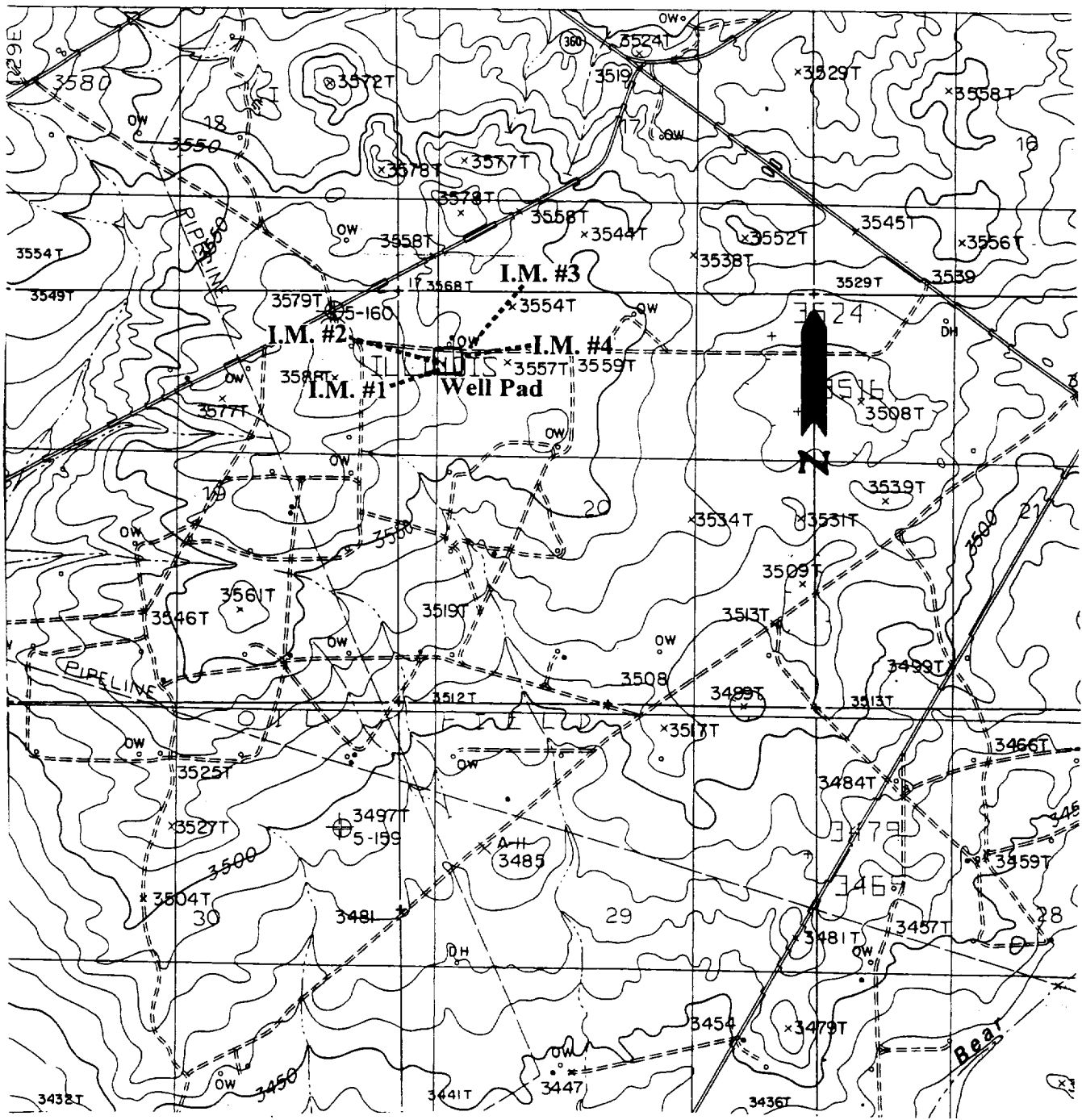


Figure 1. Showing OXY USA, INC.'s proposed Oxy Lion Well No. 2 (880' FNL; 660' FWL) in Section 20, T18S, R29E, NMPM, Eddy County, NM. Map Reference: USGS 7.5' series, Illinois Camp NE, NM (1985 Prov. Ed.)