

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED  
OMB NO. 1004-0136  
Expires: November 30, 2000


## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM-54184
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA WTP Limited Partnership		7. Unit or CA Agreement Name and No.
3a. Address P.O. Box 50250 Midland, TX 79710-0250	3b. Phone No. (include area code) 192463 432-685-5717	8. Lease Name and Well No. OXY Longnose Federal #1
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 1080 FSL 1300 FWL SWSW(M) At proposed prod. zone		9. API Well No. 30-015-34685
14. Distance in miles and direction from nearest town or post office 8 miles southwest from Loco Hills, NM		10. Field and Pool, or Exploratory Undsg. Empire Morrow, South
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 1080'		11. Sec., T., R., M., or Blk. and Survey or Area Sec 11 T18S R28E
16. No. of Acres in lease 320		12. County or Parish Eddy
17. Spacing Unit dedicated to this well 320		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A		20. BLM/BIA Bond No. on file ES0136
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3615'		22. Approximate date work will start* 3/20/06
		23. Estimated duration 45 days

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan  | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) David Stewart	Date 1/27/06
Title Sr. Regulatory Analyst		
Approved by (Signature) /s/ Tony J. Herrell	Name (Printed/Typed) /s/ Tony J. Herrell	Date MAR 10 2006
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

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, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

\*(Instructions on Reverse)

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

Captain Controlled Water Basin

Witness Surface Casing

If earthen pits are used in  
association with the drilling of this  
well, an OCD pit permit must be  
obtained prior to pit construction.

Attachment 3160-3

OXY USA WTP LP

OXY Longnose Federal #1

1080 FSL 1300 FWL SWSW(M) SEC 11 T18S R28E Eddy County, NM

Federal Lease No. NM-54184

PROPOSED TD: 11000' TVD

BOP PROGRAM: 0 - 450' None

450 - 3000' 13-3/8" 3M annular preventer, to be used as  
divertor only.

3000 - 11000' 11" 5M blind pipe rams with 5M annular  
preventer and rotating head below 8500'.

CASING: Surface: 13-3/8" OD 48# H40 ST&C new casing set at 450'  
17-1/2" hole

Intermediate: 9-5/8" OD 36# K55 ST&C new casing from 0-3000'  
12-1/4" hole

Production: 5-1/2" OD 17# P110 LT&C new casing from 0-11000'  
8-3/4" hole

CEMENT: Surface - Circulate cement with 250sx HES light premium plus w/ 2%  
CaCl<sub>2</sub> followed by 250sx PP w/ 2% CaCl<sub>2</sub>.

Intermediate - Circulate cement with 650sx Interfill C w/ .25#/sx  
Flocele followed by 200sx PP w/ 2% CaCl<sub>2</sub>.

Production - Cement with 750sx Interfill H w/ .1% HR-7 followed by  
380sx Super H w/ .5% HR-344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx  
salt + .2% HR-7. Estimated top of cement is 5800'.

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

MUD: 0 - 450' Fresh water/native mud. Lime for pH control  
(9-10). Paper for seepage.  
Wt 8.7-9.2 ppg, Vis 32-34 sec

450 - 3000' 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.

3000 - 7200' Fresh water. Lime for pH control(9-9.5). Paper  
for seepage.  
Wt 8.3-8.5 ppg, Vis 28-29 sec

7200 - 9200' Cut brine. Lime for pH control (10-10.5).  
Wt 9.6-10.0 ppg, Vis 28-29sec

9200 - 11000' Mud up with an Duo Vis/Flo Trol mud system.  
Wt 9.6-10.0ppg, Vis 32-36sec, WL<10cc

## State of New Mexico

Energy, Minerals and Natural Resources Department

## DISTRICT I

1222 S. FRANCIS DR., SUESS, NM 88240

## DISTRICT II

1201 W. GRAND AVENUE, ARTESIA, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1222 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-	Pool Code 76400	Pool Name Undesignated Empire Morrow, South
Property Code	Property Name OXY LONGNOSE FEDERAL	Well Number 1
OGRID No. 192463	Operator Name OXY U.S.A. W.T.P., LP	Elevation 3615'

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	11	18-S	28-E		1080	SOUTH	1300	WEST	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

Sr. Regulatory Analyst  
Title

11/27/06  
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.

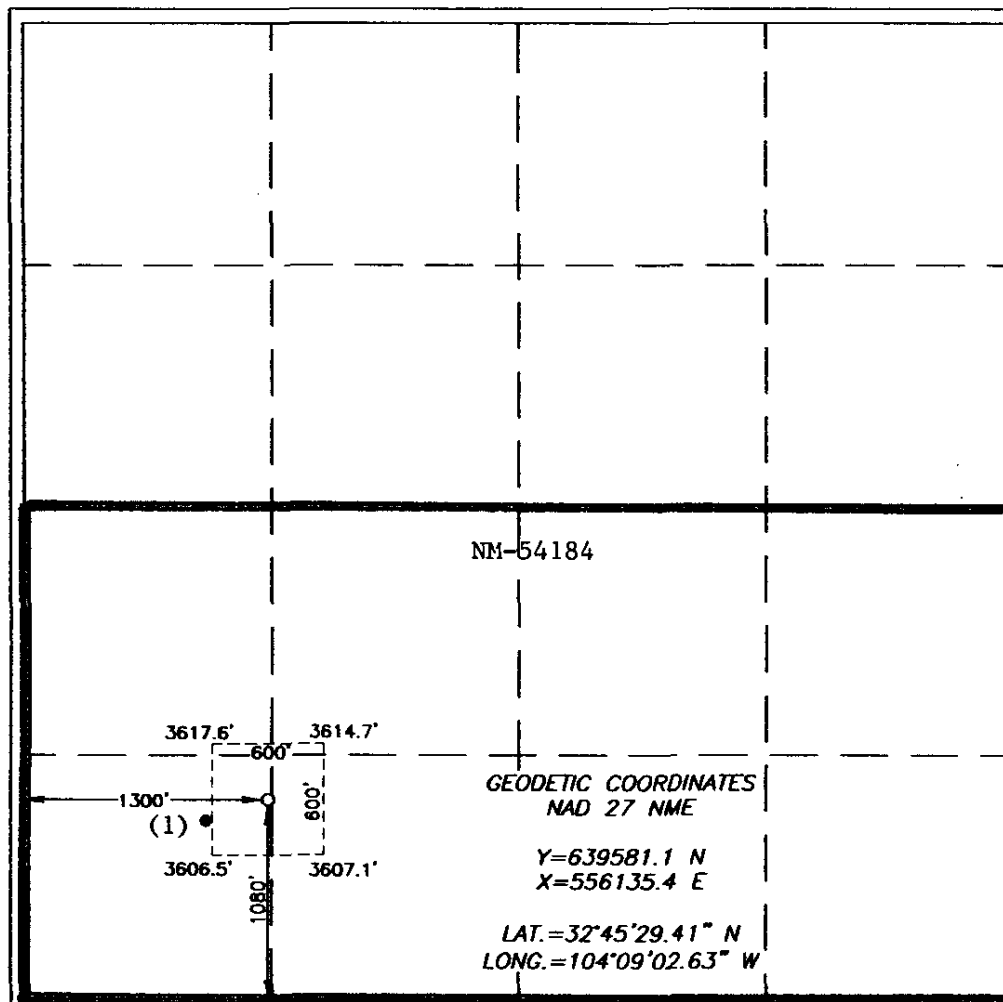
NOVEMBER 7, 2005

Date Surveyed LA

Signature of Seal of  
Professional Surveyor

RONALD S. EDSON  
NEW MEXICO  
05.11.1684  
12/01/05

Certificate No. RONALD S. EDSON 3239



(1) 3001510622 - Yates Drilling Co. - Dunn #3 - 990 FSL 990 FWL 11-18-28 -

Artesia QN-GB-SA - TD-2580' - Active

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: OXY USA WTP, Limited Partnership Telephone: 432.685.5683 e-mail address: fred\_ray@oxy.com  
Address: P.O. Box 50250, Midland, TX 79710  
Facility or well name: Oxy Longnose Fed #1 API #: U/L or Qtr/Qtr M SW-SW Sec 11 T 18-S R 28-E  
County: Eddy Latitude 32°45'29.41" N Longitude 104°09'02.63" W NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank	
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness 12 mil Clay <input type="checkbox"/> Volume 11,000 bbl	Volume: bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.	<b>RECEIVED</b> JAN 30 2006 <b>GOO-ARTESIA</b>
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points) 0	
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points) 0	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points) 0	
Ranking Score (Total Points) 0		

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: onsite ☐ offsite ☐ If offsite, name of facility (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 01/18/2006

Printed Name/Title: Fred Ray / Operation Specialist Signature: Fred Ray

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Approved: JAN 31 2006

Date:

Printed Name/Title: Signature:

**OXY USA WTP Limited Partnership**  
P.O. Box 50250, Midland, TX 79710-0250

January 27, 2006

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 WTP Limited Partnership  
OXY Longnose Federal #1  
Eddy County, New Mexico  
Lease No. NM-54184

Gentlemen:

OXY USA WTP Limited Partnership respectfully requests permission to drill our OXY Longnose Federal #1 located 1080 FSL and 1300 FWL of Section 11, T18S, R28E, Eddy County, New Mexico, Federal Lease No. NM-54184. The proposed well will be drilled to a TD of approximately 11000' (TVD). The location and work area has been staked. It is approximately 8 miles southwest 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 G. Eidson, Registered Land Surveyor No. 12641 in the State of New Mexico, dated December 1, 2005.
3. The elevation of the unprepared ground is 3615 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 11000' (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 11000' TVD.
7. Estimated tops of important geologic markers.

Wolfcamp	7750' TVD
Strawn	9700' TVD
Atoka	10100' TVD
Morrow	10600' TVD

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

Primary Objective:	Morrow	10600' TVD
Secondary Objective:	Atoka	10100' TVD

9. The proposed casing program is as follows:

Surface: 13-3/8" 48# H40 ST&C new casing set at 450'  
Intermediate: 9-5/8" 36# K55/HCK55 ST&C new casing from 0-3000'  
Production: 5-1/2" 17# N80/HP110 LT&C new casing from 0-11000'

10. Casing setting depth and cementing program:

- A. 13-3/8" surface casing set at 450' in 17-1/2" hole.  
Circulate cement with 250sx HES light PP w/ 2%  $\text{CaCl}_2$  + .25#/sx Flocele followed by 250sx PP w/ 2%  $\text{CaCl}_2$  + .25#/sx Flocele.

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%  $\text{CaCl}_2$ .

- B. 9-5/8" intermediate casing set at 3000' in 12-1/4" hole.  
Circulate cement with 650sx IFC w/ .25#/sx Flocele followed by 200sx PP w/ 2%  $\text{CaCl}_2$ .

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%  $\text{CaCl}_2$ .

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

- C. 5-1/2" production casing set at 11000' in 8-3/4" hole.  
Cement with 380sx Interfill H w/ .1% HR-7 followed by 400sx Super H w/ .5% HR-344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx salt + .2% HR-7.

Estimated top of cement is 5800'.

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

11. Pressure Control Equipment

0-450'	None
450-3000'	13-3/8" 3M annular preventer, to be used as divertor only. Exhibit A
3000-11000'	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.

After setting the 13-3/8" casing, the annular preventor (that is used as a diverter only) will be tested by the rig pump to 1000#.

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:

0-450'	Fresh water/native mud. Lime for pH control (9-10). Paper for seepage. Wt. 8.7-9.2 ppg, vis 32-34 sec.
625-3000'	Fresh/*brine water. Lime for pH control (10-10.5). 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 increase to 20000PPM.
4500-8700'	Fresh water. Lime for pH control (9-9.5). Paper for seepage. Wt. 8.3-8.5 ppg, vis 28-29 sec.
8700-10000'	Cut brine. Lime for pH control (10-10.5). Wt. 9.6-10.0 ppg, vis 28-29 sec.
10000-11000'	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 H2S gas are anticipated. H2S Contingency Plan is attached per NMOCD requirements. 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 March 15, 2006. It should take approximately 30 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,



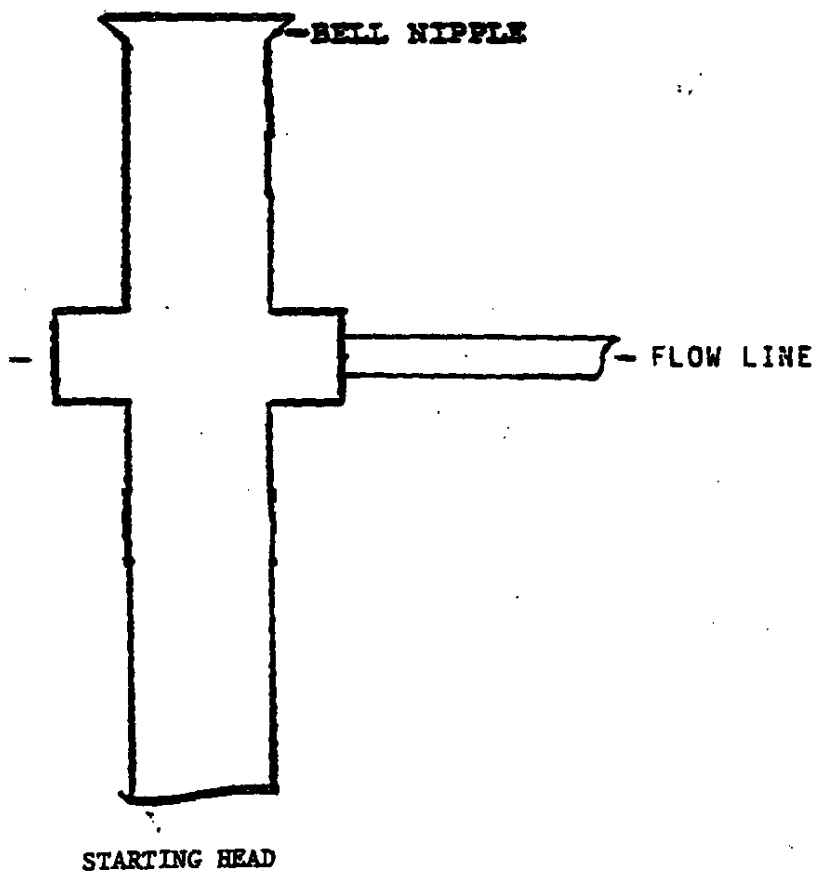
David Stewart  
Sr. Regulatory Analyst  
OXY USA WTP LP

DRS/drs

Attachments

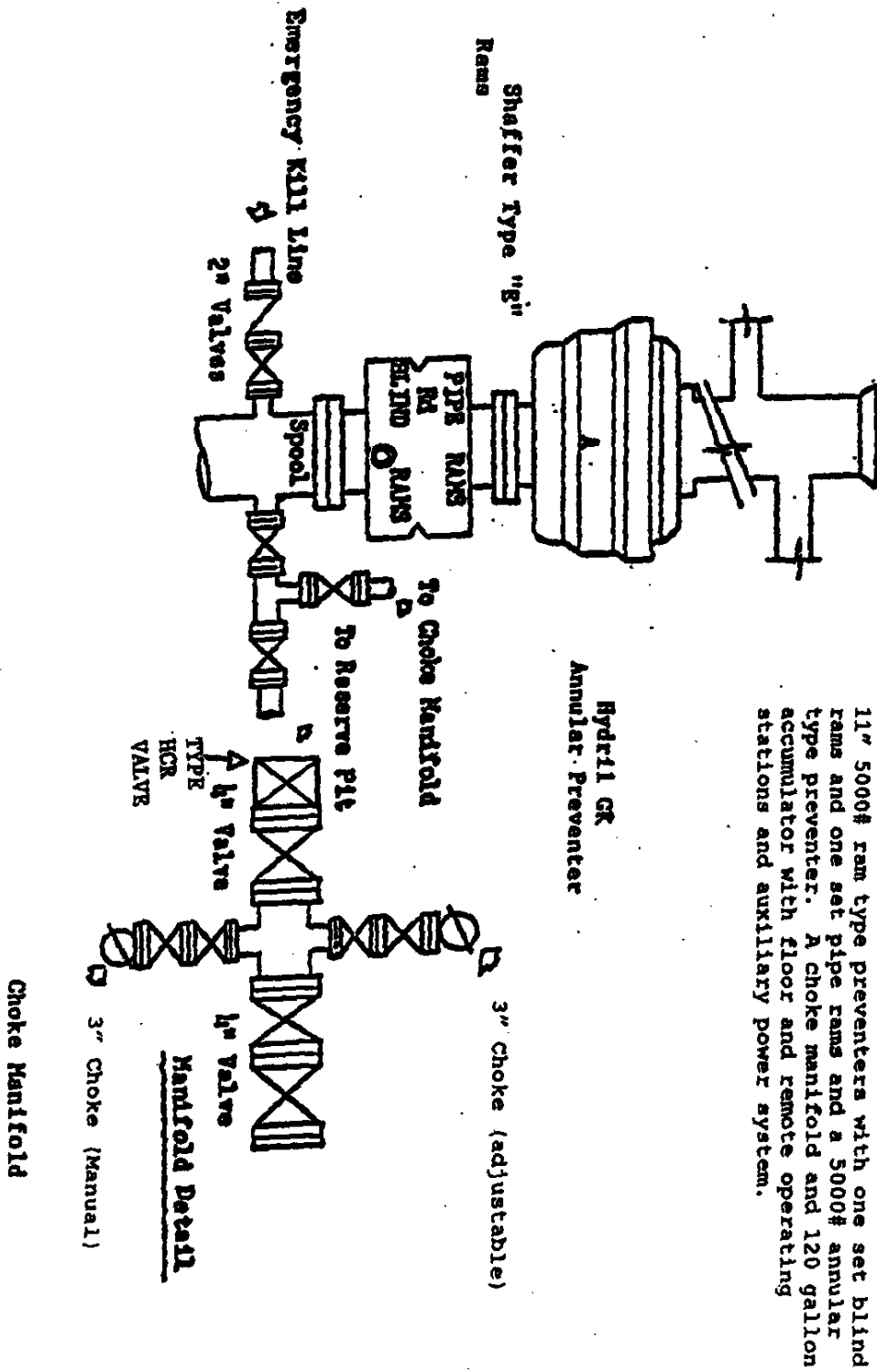
EXHIBIT A

ANNULAR PREVENTOR  
TO BE USED AS DIVERTOR ONLY



# EXHIBIT A

## BLOWOUT PREVENTOR SCHEME



## MULTI-POINT SURFACE USE AND OPERATIONS PLAN

OXY USA WTP Limited Partnership  
OXY Longnose Federal #1  
Eddy County, New Mexico  
Lease No. NM-54184

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. Boone Archaeological Services, LLC 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, 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 Loco Hills go west on USH 82 for appx. 10.7 miles. Turn left on SH 360 and go southeast for 3.2 miles. Turn right on caliche road and go southwest for 0.3 miles. Take Y road to the right and go west for 1.3 miles. Turn left and go south for 0.4 miles, location is appx. 150' east.

### 2. Planned Access Road

- A. A new access road will be built. The access road will run approximately 42' east from an existing road to the 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
- 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 Longnose 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 onsite material.

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. See attachment.
- A. Leveling of the wellsite will be required with minimal cuts or fills anticipated.

- B. The reserve pit will be plastic lined.
- C. 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.
- 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 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: Dalton Bell, 811 W. Bullock Ave, Artesia, NM 88220. 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 3615'.
- 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: None within 2 miles.
- F. Archaeological, Historical and Cultural Sites: Cultural resources have been recorded in the area. Boone Archaeological Services, LLC 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:

John Erickson  
Production Coordinator  
P.O. Box 69  
Hobbs, New Mexico 88240  
Office Phone: 505-393-2174  
Cellular: 505-390-6426

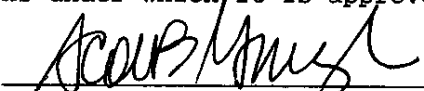
Joe Fleming  
Drilling Coordinator  
P.O. Box 50250  
Midland, TX 79710-0250  
Office Phone: 915-685-5858

Calvin C. (Dusty) Weaver  
Operation Specialist  
P.O. Box 2000  
Levelland, TX 79336  
Office Phone: 806-229-9467  
Cellular: 806-893-3067

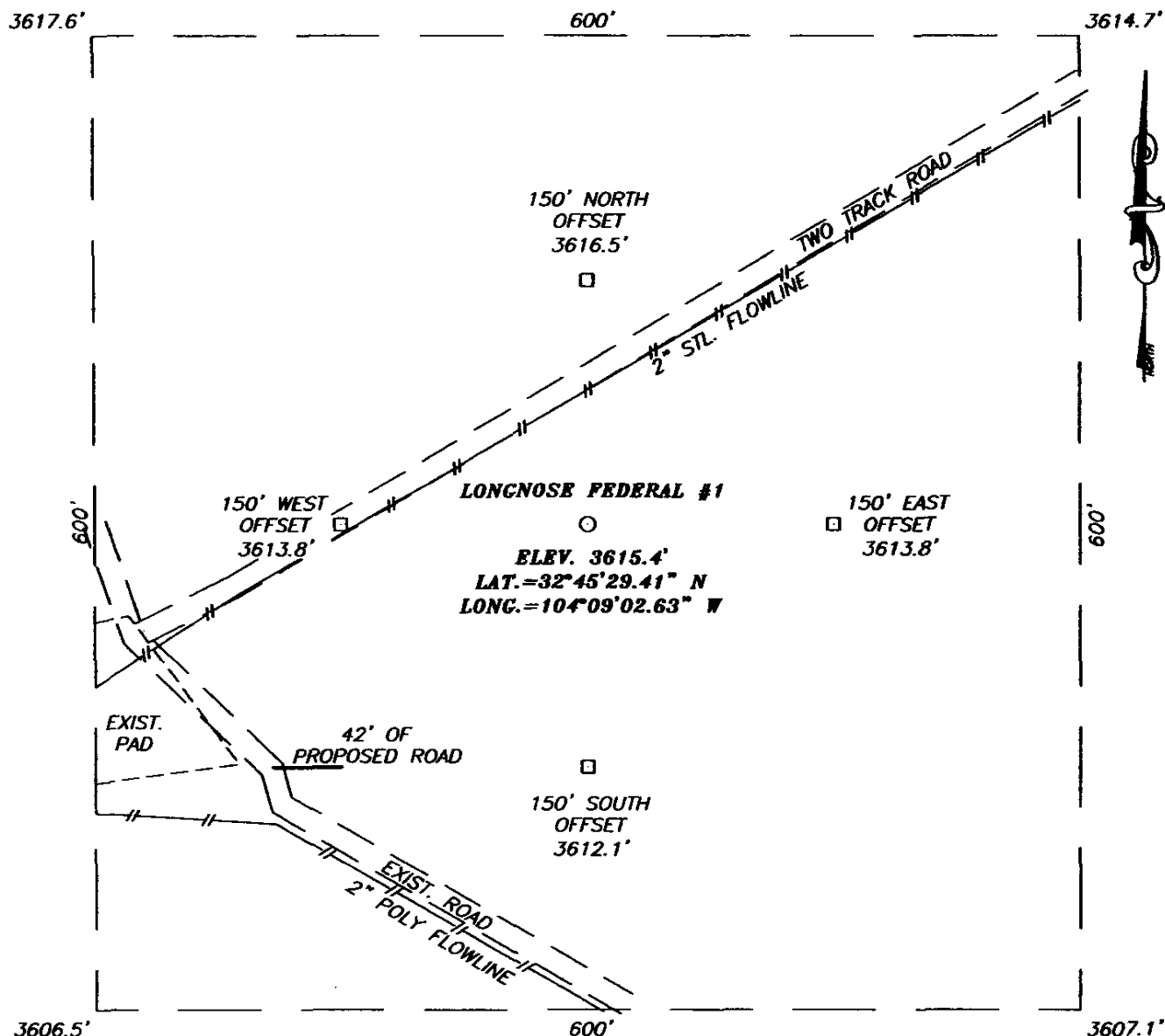
Terry Asel  
Operation Specialist  
1017 W. Stanolind Rd.  
Hobbs, NM 88240  
Office Phone: 505-397-8217  
Cellular: 505-631-0393

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 WTP Limited Partnership and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

1/27/2006  
DATE

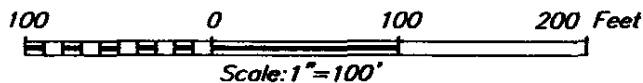
  
\_\_\_\_\_  
Scott Gengler  
Engineering Advisor  
432-685-5825  
South Permian Asset Team  
OXY USA WTP Limited Partnership

**SECTION 11, TOWNSHIP 18 SOUTH, RANGE 28 EAST, N.M.P.M.,**  
**EDDY COUNTY, NEW MEXICO**



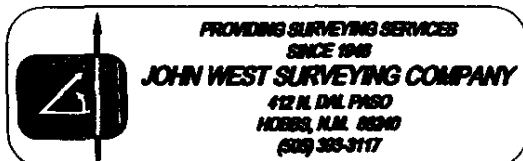
**DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF U.S. HWY. #82 AND ST. RD. #360 GO SOUTHEAST ON ST. ROAD #360 APPROX. 3.1 MILES. TURN RIGHT AND GO SOUTHWEST THRU CATTLE GUARD APPROX. 100 FEET. ROAD BENDS LEFT AND GOES SOUTH APPROX. 0.8 MILES. TURN LEFT AND GO SOUTHWEST APPROX. 0.2 MILES. TURN RIGHT AND GO NORTHWEST APPROX. 0.45 MILES. ROAD BENDS LEFT AND GOES WEST APPROX. 0.9 MILES. TURN LEFT AND GO SOUTH-SOUTHWEST APPROX. 0.25 MILES. ROAD BENDS LEFT AND GOES SOUTH-SOUTHEAST APPROX. 0.18 MILES. THIS LOCATION IS APPROX. 150 FEET EAST.



**OXY U.S.A. W.T.P., LP**

LONGNOSE FEDERAL #1 WELL  
 LOCATED 1080 FEET FROM THE SOUTH LINE  
 AND 1300 FEET FROM THE WEST LINE OF SECTION 11,  
 TOWNSHIP 18 SOUTH, RANGE 28 EAST, N.M.P.M.,  
 EDDY COUNTY, NEW MEXICO.



Survey Date: 11/7/05	Sheet 1 of 1 Sheets
W.O. Number: 05.11.1684	Dr By: LA
Date: 11/30/05	Rev 1: N/A
Disk: CD#4	05111684
	Scale: 1"=100'



United States Department of the Interior  
Bureau of Land Management  
Roswell District  
2909 W. Second Street  
Roswell, New Mexico 88202

Attention: Armando A. Lopez

RE: OXY Longnose Federal #1  
S/2 of Section 11, T18S-R28E  
Eddy County, New Mexico

**STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS**

**OPERATOR NAME:** OXY USA WTP Limited Partnership  
**ADDRESS:** P. O. Box 50250  
Midland, Texas 79710

**The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:**

**LEASE NO.:** USA NM 54184  
**LEGAL DESCRIPTION:** South Half (S/2) Section 11  
T18S-R28E  
Eddy County, New Mexico  
**FORMATIONS:** None  
**BOND COVERAGE:** Nationwide  
**BLM BOND FILE NO.:** ES 0136

OXY USA WTP Limited Partnership

**AUTHORIZED SIGNATURE:**

**BY:**



**TITLE:** Senior Landman Advisor  
**DATE:** January 25, 2006

cc: David Stewart

**OXY USA WTP  
Limited Partnership  
PO Box 50250  
Midland, TX 79710**

**Hydrogen Sulfide (H<sub>2</sub>S)  
Contingency Plan**

**For**

**Oxy Longnose Fed No. 1  
1080 ft FSL, 1300 ft FWL  
Sec 11, T18S, R28E  
Eddy County, NM**

**And**

**Patterson/UTI Rig 508**

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## **PREFACE**

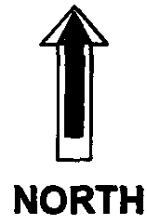
An effective and viable Contingency Plan is intended to provide prior planning and guidance in responding to emergency incidents. The primary considerations in its development are protection of personnel, the public, company and public property, and the environment.

Although the plan addresses varied emergency situations which may occur, it recognizes that flexibility and the use of the organization's knowledge and experience is critical to safe resolution of emergency incidents. Response actions outlined in the plan provide a framework, which may be placed into operation without confusion. These actions should promote quick and decisive actions during the critical initial period and immediately following an emergency. As the response progresses, additional guidelines and procedures may need to be implemented as the situation dictates. In addition, all emergency incidents must be properly reported per the Oxy Incident Reporting and Notification Policy, state and federal requirements, etc.

This Contingency Plan is intended for use on Oxy Downhole Services Group projects and the operations within their area of responsibility, such as drilling, critical well work, etc.

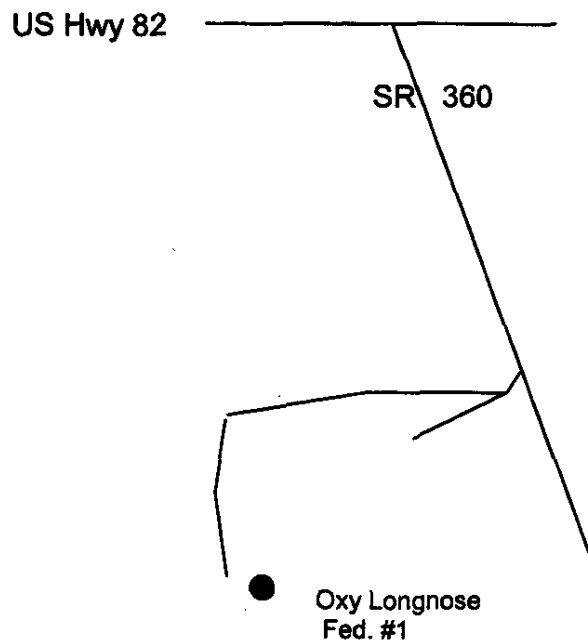
A copy of the Plan shall be maintained in the Top Dog House, Rig Managers trailer, and Company Representative's trailer if applicable.

**Oxy Longnose Fed 1**  
**Lat. 32°45'29.41"N**  
**Long. 104°09'02.63"W**  
**NAD 27 NME**  
**Y=639581.1 N**  
**X=556135.4 E**

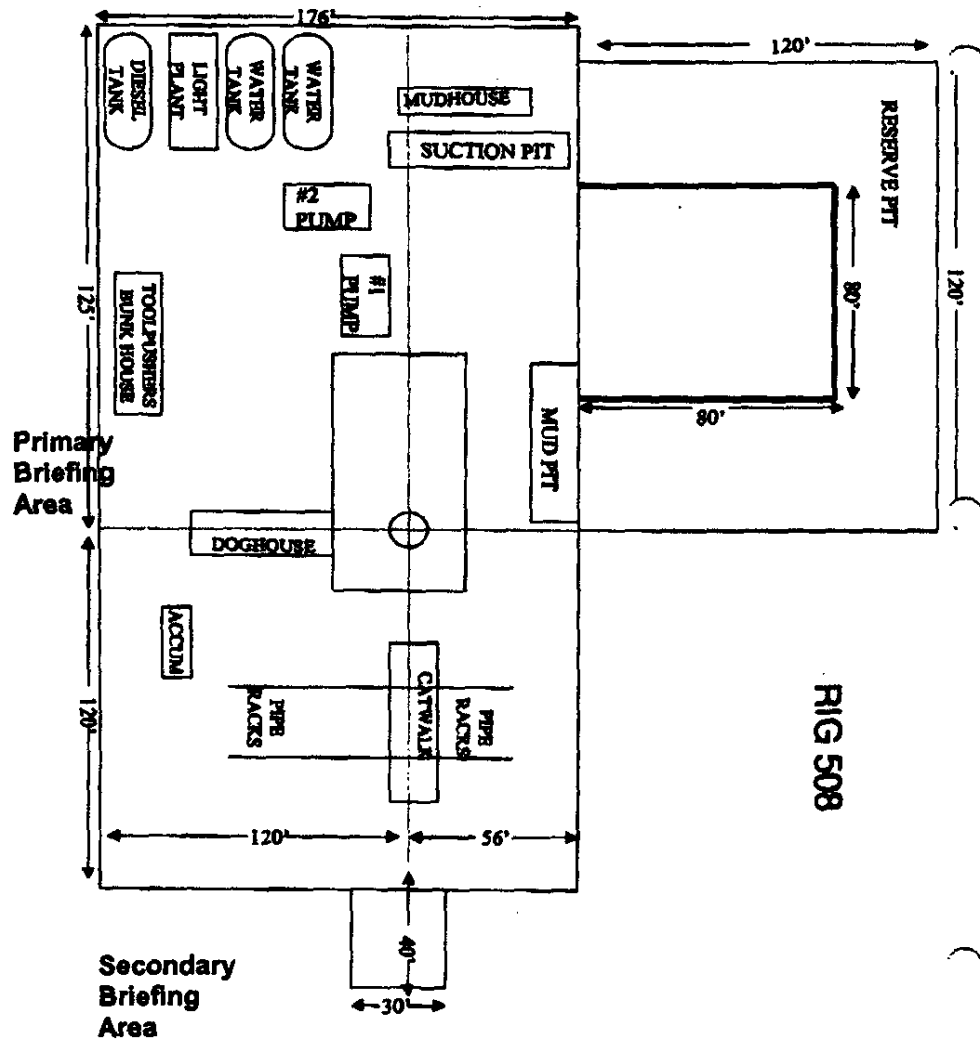


**DIRECTIONS TO LOCATION:**

From Loco Hills go west on U.S. Hwy # 82 for appx. 10.7 miles,  
Turn left on St Hwy. #360 and go southeast for 3.2 miles,  
Turn right on caliche road and go southwest for 0.3 miles,  
Take Y road to the right and go west for 1.3 miles,  
Turn left and go south for 0.4 miles,  
Location is appx. 150' east.



Oxy Longnose  
Fed No. 1



1-423 P-001/002 P-027 423001002 P-001-PATTERSON DRILLING 10-10

## **EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES**

### ***Activation of the Emergency Action Plan***

- A. In the event of any emergency situation, all personnel on location should first ensure that the following items are initiated. After that, they should refer to the appropriate Specific Emergency Guidance sections on pages ten (10) through twelve (12) in this document for further responsibilities:
  - 1. Notify the senior ranking contract representative on site.
  - 2. Notify Oxy representative in charge.
  - 3. Notify civil authorities if the Oxy Representative can not be contacted and the situation dictates.
  - 4. Perform rescue and first aid as required (without jeopardizing additional personnel).

### ***General Responsibilities***

#### **Oxy Permian Personnel:**

- A. Operations Specialist: The Oxy Drilling/Critical Well Servicing Operations Specialist or contract personnel serving in that capacity will serve as Operations Chief Officer for all emergency incidents. The Operations Chief Officer is responsible for:
  - 1. Notification to the Downhole Services Team Leader of the incident occurrence.
  - 2. Notification to the local RMT/PMT leader of the incident occurrence, and the need for the designated local RMT/PMT Incident Commander to act in that capacity for the response effort.
  - 3. Sole control of all tactical activities directed toward reducing the immediate hazard, establishing situational control and restoring the operations to a non-emergency state.
- B. Local RMT/PMT Designated Incident Commander: The Oxy local RMT/PMT Designated Incident Commander will serve as the overall Incident Commander for the drilling or critical well servicing emergency incident. The Incident Commander is responsible for:
  - 1. Coordinating with the Downhole Services Team Leader for notification to the Oxy Crisis Management team of the incident occurrence.
  - 2. Establishing and managing the overall incident command structure and response from inception through restoration of normal activities in the area.
- C. Downhole Services HES Tech: The Downhole Services HES Tech (or his designate) is responsible for reporting to the incident as soon as reasonably possible, to provide support to the response effort as required by the Operations Chief Officer or the Incident Commander.

**Contract Drilling Personnel** will immediately report to their assigned stations and perform their duties as outlined in the appropriate Specific Emergency Guidance sections on pages ten (10) through twelve (12) in this document.

**Other Contractor Personnel** will report to the safe briefing area to assist Oxy personnel and civil authorities as requested when it is safe to do so and if they have been adequately trained in their assigned duties.

**Civil Authorities** (Law Enforcement, Fire, and EMS) will be responsible for:

1. Establishing membership in the Unified Incident Command.
2. As directed by the Incident Commander and the Unified Command, control site access, re-route traffic, and provide escort services for response personnel.
3. Perform all fire control activities in coordination with the Unified Command.
4. Initiate public evacuation plans as instructed by the Incident Commander.
5. Perform rescue or recovery activities with coordination from the Unified Command.
6. Provide medical assistance as dictated by the situation at hand.

### **H2S RELEASE**

The following procedures and responsibilities will be implemented on activation of the H2S siren and lights.

#### **All Personnel:**

1. On alarm, don escape unit (if available) and report to upwind briefing area.

#### **Rig Manager/Tool Pusher:**

1. Check that all personnel are accounted for and their condition.
2. Administer or arrange for first aid treatment, and /or call EMTs as needed.
3. Identify two people best suited to secure well and perform rescue, and instruct them to don SCBA.
4. Notify Contractor management and Oxy Representative.
5. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.

#### **Two People Responsible For Shut-in and Rescue:**

1. Don SCBA and acquire tools to secure well and perform rescue, i.e., wrenches, retrieval ropes, etc.
2. Utilize the buddy system to secure well and perform rescue(s).
3. Return to the briefing area and stand by for further instructions.



**All Other Personnel:**

1. Isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

**Oxy Representative:**

1. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.
2. Notify Operation Specialists or Team Leader and RMT Leader or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

**Training**

There will be an initial training session prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan (Contingency Plan). This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

**Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police shall be the Incident Command of any major release. Ignition of the well will be with the concurrence of the drilling team leader and the Oxy Crisis Management Team as time allows.

**Characteristics of H<sub>2</sub>S and SO<sub>2</sub>**

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

### **Contacting Authorities**

Oxy Permian personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as; type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. This response plan must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER).

## **WELL CONTROL**

The following procedures will be implemented when a loss of primary control is indicated. Indicators of loss of primary control are flow from the well, an increase in pit volume, or when the drilling fluid used to fill the hole on trips is less than the calculated pipe displacement volume. The emergency signal for well control procedures will be a single long blast of the rig air horn.

### **Kick While Drilling - Procedures And Responsibilities**

#### **Driller:**

1. Stop the rotary and hoist the kelly above the rotary table.
2. Stop the mud pump(s).
3. Check for flow.
4. If flowing, sound the alarm immediately.
5. Ensure that all crew members fill their responsibilities to secure the well.
6. Record drill pipe and casing shut-in pressures and pit volume increase and begin kill sheet.

#### **Derrickman:**

1. Go to BOP/choke manifold area.
2. Open choke line valve on BOP.
3. Signal to Floorman #1 that the choke line is open.
4. Close chokes after annular or pipe rams are closed.
5. Record shut-in casing pressure and pit volume increase.
6. Report readings and observations to Driller.
7. Verify actual mud weight in suction pit and report to Driller.
8. Be readily available as required for additional tasks.

#### **Floorman # 1:**

1. Go to accumulator control station and await signal from Derrickman.
2. Close annular preventer and HCR on signal (if available, if not then close pipe rams).
3. Record accumulator pressures and check for leaks in the BOP or accumulator system.
4. Report to Driller, and be readily available as required for additional tasks.

#### **Floorman # 2:**

1. Start water on motor exhausts.
2. Notify Contractor Tool Pusher or Rig Manager of well control situation.
3. Check location for ignition sources and extinguish or turn off, and stop any welding in progress.
4. Report to Driller, and be readily available as required for additional tasks.

**Floorman # 3:**

1. Stand-by with Driller, and be readily available as required for additional tasks.

**Tool Pusher/Rig Manager:**

1. Notify Oxy Representative and report to rig floor.
2. Review and verify all pertinent information.
3. Communicate information to Oxy Representative, and confer on an action plan.
4. Finalize well control worksheets, calculations and preparatory work for action plan.
5. Initiate and ensure the action plan is carried out.
6. Communicate any changes in well or site conditions, or any indications that the action plan needs to be revised to the Oxy representative.

**Oxy Representative:**

1. Notify Operation Specialists or Team Leader and RMT Leader or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

**Kick While Tripping - Procedures and Responsibilities**

**Driller:**

1. Sound the alarm immediately when pipe displacement volume is less than 75% of calculated.
2. Position the upper tool joint just above rotary table and set slips.
3. Check for flow.
4. Ensure that all crew members fill their responsibilities to secure the well.
5. Record drill pipe and casing shut-in pressures and pit volume increase, and begin kill sheets.

**Derrickman: (same as while drilling)**

**Floor Man # 1:**

1. Install full opening valve (with help from Floorman #2) in top drill string connection.
2. Tighten valve with make up tongs.
3. Go to accumulator control station and await signal from Derrickman.
4. Close annular preventer and HCR valve on signal (if available, if not then close pipe rams).
5. Record accumulator pressures and check for leaks in the BOP and accumulator system.
6. Report to Driller, and be readily available as required for additional tasks.

**Floor Man # 2:**

1. Assist installing full opening valve in drill string.
2. Position back-up tongs for valve make-up.
3. Start water on motor exhausts.
4. Notify Contractor Tool Pusher or Rig Manager of well control situation.
5. Check location for ignition sources and extinguish or turn off, and stop any welding in progress.
6. Report to Driller, and be readily available as required for additional tasks.

**Floorman # 3, Rig Manager/Tool Pusher, and Oxy Representative:** (same as while drilling)

## ***PUBLIC RELATIONS***

Oxy recognizes that the news media have a legitimate interest in incidents at Oxy facilities that could affect the public. It is to the company's benefit to cooperate with the news media when incidents occur because these media are our best liaison with the public.

Our objective is to see that all reports of any emergency are factual and represent the company's position fairly and accurately. Cooperation with news media representatives is the most reliable guarantee that this objective will be met.

All contract and Oxy employees are instructed **NOT** to make any statement to the media concerning the emergency incident. If a media representative contacts any employee, they should refer them to the designated Emergency Command Center where they should contact the Incident Commander or his designated relief for any information concerning the incident.

# OXY PERMIAN DOWNHOLE SERVICES GROUP

	LOCATION	OFFICE	HOME	CELL	PAGER
<b>Manager Operations Support</b>					
Hardesty, Steve	Midland	432-685-5880	432/694-6441	713-560-8095	
<b>Team Leader</b>					
Pennington, Randy	Midland	432-685-5684	432/689-7642	432-556-0207	713-312-8186
			Toledo Bend =	318-590-2349	
<b>Operations Specialists</b>					
Fleming, Joe	Midland	432-685-5858	432/699-0875	432-425-6075	
Ray, Fred	Midland	432-685-5683	432/362-2857	432-661-3893	
<b>HES Tech</b>					
Thompson, Don	Midland	432-685-5719	432/684-3900	432-556-1505	

## **Emergency Notification Numbers**

<b>Public Authorities</b>		
New Mexico State Police	Artesia	505/746-2704
New Mexico State Police	Carlsbad	505/885-3137
New Mexico State Police	Hobbs	505/392-5588
Eddy County Sheriff's Office	Artesia	505/746-2704
Eddy County Sheriff's Office	Carlsbad	505/887-7551
Lea County Sheriff's Office	Hobbs	505/393-2515
Local Emergency Planning Center	Eddy County	505/887-9511
Local Emergency Planning Center	Lea County	505/397-9231
New Mexico Oil & Gas Commission	Artesia	505/748-1283
New Mexico Oil & Gas Commission	Hobbs	505/393-6161
NM Emergency Response Center	Hobbs	505/827-9222

<b>Emergency Services</b>		
Fire Fighting, Rescue, Ambulance, Police	Artesia	911
Fire Fighting, Rescue, Ambulance, Police	Carlsbad	911
Fire Fighting, Rescue, Ambulance, Police	Hobbs	911
Flight For Life	Lubbock	806/743-9911
Aerocare	Lubbock	806/7478923
Med Flight Air Ambulance	Albuquerque	505/842-4433

<b>Other Emergency Services</b>		
Boots and Coots		1/800-258-9688
Cudd Pressure Control	Midland	432/699-0139
B.J. Services	Artesia	505/746-3569
Halliburton	Artesia	505/746-2757



**OXY Permian Production and Plant Personnel  
OXY Permian Crisis Team Hotline Notification (713) 935-7210**

PERSON	LOCATION	OFFICE	FAX	CELL	PAGER
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<b>Asset Management-Operations Areas</b>					
OXY Permian General Manager: Tom Menges	Houston	(281) 552-1147	(281) 552-1484	(713) 560-8038	
South Permian Asset: Matt Hyde	Midland	(432) 685-5802	(432) 685-5930	(432) 556-5016	

<b>RMT/PMT Leaders: South Permian Asset</b>					
Frontier RMT: John Nicholas	Midland	(432) 685-5600	(432)	(432)	(432)

PERSON	LOCATION	OFFICE	FAX	CELL	PAGER
<b>Production Coordinators: S. Permian Asset</b>					
New Mexico: John Erickson	Hobbs	(505) 393-2174	(505) 397-2671	(505) 390-6426	(505) 370-6836

**OXY Permian HES Personnel  
OXY Permian Crisis Team Hotline Notification (713) 935-7210**

PERSON	LOCATION	OFFICE	FAX	CELL	PAGER
<b>HES Coordinators &amp; Area of Responsibility</b>					
Frontier: Ricky Tyler	Midland	(432) 685-5702	(432) 685-5742	(432) 556-5790	
<b>HES Techs &amp; Area of Responsibility</b>					
Hobbs RMT: Steve Bishop	Hobbs	(505) 397-8251	(505) 397-8204	(505) 390-4784	(877) 339-1954-1118#
Frontier-New Mexico: Rick Kerby	Hobbs	(505) 393-2174	(505) 393-2671	(505) 390-8639	(505) 370-6527

## CONDITIONS OF APPROVAL - DRILLING

Operator's Name: OXY USA WTP Limited Partnership  
Well Name & No. OXY Longnose Federal #1  
Location: 1080' FSL, 1300' FWL, Section 11, T. 18 S., R. 28 E., Eddy County, New Mexico  
Lease: NM-54184

### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:

- A. Well spud
- B. Cementing casing: 13-3/8 inch 9-5/8 inch 5-1/2 inch
- C. BOP tests

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15-day time frame.

4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

### II. CASING:

1. The 13-3/8 inch surface casing shall be set at approximately 450 feet and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is to be circulated to the surface.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is to be sufficient to reach at least 500 feet above the top of the uppermost hydrocarbon productive interval.

### III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13-3/8 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling the surface and intermediate shall be 2000 psi.

Note: Operator plans to use 3 M annular as diverter through drilling of intermediate. Waiver granted.

3. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling below the intermediate shall be 5000 psi.

4. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
  - The tests shall be done by an independent service company.
  - The results of the test shall be reported to the appropriate BLM office.
  - Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
  - Testing must be done in a safe workman-like manner. Hard line connections shall be required.

#### **IV. DRILLING MUD:**

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- Recording pit level indicator to indicate volume gains and losses.
- Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- Flow-sensor on the flow-line to warn of abnormal mud returns from the well.

2 14 2006

acs