Fcpm 3160-3 (August 1999)

# UNITED STATES OIL CONS. DIV-DIST. 2 DEPARTMENT OF THE INTERIOR BUREAU OF LAND MAN 1394NW. Grand Avenue

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

APPLICATION FO	OR PERMIT TO DRIES	<b>CASSEAL</b>	hai 305 i <i>r</i>	3.	Lease Serial No. LC-028375(t	o)
la. Type of Work	REENTE	er er		6.	If Indian, Allotee	or Tribe Name
lb. Type of Well Oil Well 💢 G	ias Well Dother	X Single Zone	Multiple Zon	ie 7.	Unit or CA Agre	ement Name and No.
2. Name of Operator				8.	Lease Name and	Well No.
OXY USA WTP Limited Partnershi	D		02463 No. (include area co		<b>OXY Roscoe</b>	Federal #2
3a. Address	2710 0050	· i		ae) 9.	API Well No.	
P.O. Box 50250 Midland, TX 7  4. Location of Well (Report location clearly as	9/10-0250	4.	32-685-5717		30-015-	
At surface 660 FNL 990 FWL NWI		ac cquirements	RECEIVED	L.	Field and Pool, of Crow Flats	Morrow
At proposed prod. zone 1205 F	NL 669 FWL NWNW(4)	•	OCT 0 6 2004	1		or Blk. and Survey or Ar
14. Distance in miles and direction from nearest	town or post office*			12.	County or Parish	
6 mil	es northwest from A	rtesia. NM		lec	ldy	NM
15. Distance from proposed* location to nearest		16.No. of Acre	s in lease	17. Spaci	ng Unit dedicated	
property or lease line, ft. (Also to nearest drg. unit line, if any)	660'		320		32	0
<ol> <li>Distance from proposed location* to nearest well, drilling, completed,</li> </ol>		19. Proposed D	epth	20.BLM	/BIA Bond No. o	on file
applied for, on this lease, ft.	371'	9100'TVD	- 9600'TMD		9312	2774
21. Elevations (Show whether DF, KDB, RT, GL	., etc.		te date work will sta	rt*	23. Estimated d	
3388'		<b>↓</b>	11/1/04			30 days
	2	4. Attachments				
The following, completed in accordance with the	e requirements of Onshore Oi	l and Gas Order N	o. 1, shall be attache	d to this fo	OTTO:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan</li> <li>A Surface Use Plan (if the location is on Na</li> </ol>	tional Forest System Lands, t	ltem he 5. Oper	20 above). ator certification.		·	isting bond on file (see
SUPO shall be filed with the appropriate Fo	rest Service Office).		other site specific in	nformation	and/or plans as n	nay be required by the
25. Signuature		Name (Printed/Typ	oed)		Dat	e
V- 8/4		David Stewar	·t			8/31/04
Title					***	
Sr. Regulatory Analyst						
Approved by (Signaphre) Russell E. So	rensen	Name (Printed/Typ /S/ R	ussell E. So	orense	<b>n</b> Dat	OCT 0 4 2004
FIELD MANAGER		Office CAF	LSBAD F	IFI D	OFFICE	
conduct operations thereon.	y that the applicant holds leg	al or equitable titl	e to those rights in t	the subject	lease which wou	ild entitle the applicant t
Conditions of approval, if any, are attached.			<b>/</b> \//	<b>TUVA</b>	L FOR	IYEAH

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly 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)

Restroll Controlled Water Beside

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

Witness Surface Casing.

Attachment 3160-3

OXY Roscoe Federal #2

SL-660 FNL 990 FWL BHL-1205 FNL 669 FWL

SEC 4 T17S R27E Eddy County, NM

Federal Lease No. LC-028375(b)

PROPOSED TD: 9100' TVD 9600' TMD

BOP PROGRAM: 0 - 400' None

400 - 1800' 13-3/8" 3M annular preventer, to be used as

divertor only.

1800 - 9100' 11" 5M blind pipe rams with 5M annular

preventer and rotating head below 8500'.

4

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

17-1/2" hole

Intermediate: 9-5/8" OD 36# K55 ST&C new casing from 0-1800'

12-1/4" hole

Production: 5-1/2" OD 17# N80 LT&C new casing from 0-9100'

8-3/4" hole

CEMENT: Surface - Circulate cement with 175sx HES light premium plus w/ 2%

CaCl<sub>2</sub> followed by 250sx PP w/ 2% CaCl<sub>2</sub>.

Intermediate - Circulate cement with 365sx Interfill C w/ .25#/sx

Flocele followed by 200sx PP w/ 2% CaCl<sub>2</sub>.

Production - Cement with 805sx Interfill H w/ .1% HR-7 followed by 415sx Super H w/ .5% HR-344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx

salt + .2% HR-7. Estimated top of cement is 5500'.

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 - 1800' Fresh/\*Brine water. Lime for pH control (10.0-

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.

1800 - 5900' Fresh water. Lime for pH control(9-9.5). Paper

for seepage.

Wt 8.3-8.5 ppg, Vis 28-29 sec

5900 - 8000' Cut brine. Lime for pH control (10-10.5).

Wt 9.6-10.0 ppg, Vis 28-29sec

8000 - 9100' Mud up with an Duo Vis/Flo Trol mud system.

Wt 9.6-10.0ppg, Vis 32-36sec, WL<10cc

1625 N. French Dr., Hobbs, NM 88240 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 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

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

Form C-144

March 12, 2004

office

RECEIVED

## Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes \( \subseteq \) No \( \subseteq \)

Type of action: Registration of a pit or below-grade tank \( \subseteq \) Closure of a pit or below-grade tank \( \subseteq \) SEP 0 2 2004 ORD-AHTESIA Operator: \_Oxy U.S.A. W.T.P. Limited Partnership \_\_\_\_\_\_Telephone: \_432.685.5719 e-mail address: \_\_Don\_Thomposn2@oxy.com\_ Address: P.O. Box 50250 Midland, TX 79710\_ Facility or well name: OXY Roscoe Fed. No. 2\_\_\_ \_\_\_API #: \_\_ \_\_U/L or Qtr/QtrNWNW\_\_Sec\_4\_\_\_T\_17S\_\_R\_27E\_ County: \_\_Eddy\_\_\_\_\_\_ Latitude\_32°52'11.39"N Longitude\_104°17'16.48"W\_\_\_\_ NAD: 1927 🛛 1983 🗌 Surface Owner Federal 🖾 State 🔲 Private 🗀 Indian 🗍 Pit Below-grade tank Type: Drilling | Production | Disposal | Volume: bbl Type of fluid: \_\_\_\_\_ Construction material: Double-walled, with leak detection? Yes I If not, explain why not. Lined Dulined Liner type: Synthetic ☑ Thickness \_12\_\_\_mil Clay ☐ Volume Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal high (10 points) 10 50 feet or more, but less than 100 feet water elevation of ground water.) 100 feet or more ( 0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic Nο ( 0 points) 0 water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more ( 0 points) 0 10 Ranking Score (Total Points)

	·
If this is a pit closure: (1) attach a diagram of the facility showing the pit's a	relationship to other equipment and tanks. (2) Indicate disposal location:
onsite  offsite  foffsite, name of facility	(3) Attach a general description of remedial action taken including remediation start date and en
date. (4) Groundwater encountered: No 🔲 Yes 🔲 If yes, show depth below	w ground surfaceft. and attach sample results. (5) Attach soil sample results and a
diagram of sample locations and excavations.	
been/will be constructed or closed according to NMOCD guidelines , a g Date:August 23, 2004  Printed Name/Title _Don Thompson/HES Spec	Signature SK hompson
otherwise endanger public health or the environment. Nor does it relieve the oregulations.	elieve the operator of liability should the contents of the pit or ank contaminate ground water or perator of its responsibility for compliance with any other federal, state, or local laws and/or
Printed Name/Title	Signature

DISTRICT I 1625 N. PRENCE DR., EOBBS, NM 86240

#### Energy, Minerals and Natural Resources Department

Form C-102 Revised JUNE 10, 2003

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 68210 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 67410

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT IV 1280 S. St. Francis Dr., Santa Fr., NM 87506	WELL LOCATION AND	ACREAGE DEDICATION	PLAT	AMENDED REPORT
API Number 30-015-	Pool Code 75720	1	Pool Name Flats Morrow	
Property Code 23302		perty Name COE FEDERAL		Well Number
OGRID No.	-	A. W.T.P., LP		Elevation 3388'

#### Surface Location

i	UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
	4	4	17-S	27-E		660	NORTH	990	WEST	ĖDDY

#### 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
4	4	17-S	27-E		1205	NORTH	669	WEST	EDDY
Dedicated Acres   Joint or Infill   Consolidation Code			Code Or	der No.	· ·				
320		Y		1					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

			EN APPROVED BY TE	IE DIVISION
990'-2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LOT 3 386.4' 401.8' -212'07' 643.3'	LOT 2  ORDINATES 1  NME  8.9 N  5.8 E	LOT 1	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and betief.  Signature  David Stewart  Printed Name  Sr. Regulatory Analyst  Title  SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that same is true and correct to the best of my bestef.
				JULY 26, 2004  Date Surveyed JR  Signature & Scal of Professional Surveyor  DATE Surveyor  04.11.0930  Certificate No. GARY RIDSON 12841

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

August 31, 2004

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 Roscoe Federal #2
Eddy County, New Mexico
Lease No. LC028375(b)

#### Gentlemen:

OXY USA WTP Limited Partnership respectfully requests permission to drill our OXY Roscoe Federal #2 located at a surface location of 660 FNL and 990 FWL and a proposed bottom-hole location of 1205 FNL 669 FWL of Section 4, T17S, R27E, Eddy County, New Mexico, Federal Lease No. LC028375(b). The proposed well will be drilled to a TD of approximately 9100' (TVD) and 9600' (TMD). The location and work area has been staked. It is approximately 6 miles northeast 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.
  - 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 August 5, 2004.
  - The elevation of the unprepared ground is 3388 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 9100' (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 9100'(TVD) and 9600'(TMD).
  - 7. Estimated tops of important geologic markers.

 Wolfcamp
 6000' TVD

 Strawn
 8250' TVD

 Atoka
 8600' TVD

 Morrow
 8700' TVD

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

Primary Objective: Morrow 8700' TVD

Secondary Objective: Atoka 8600' TVD

#### APD - OXY Roscoe Federal #2 Page 2

9. The proposed casing program is as follows:

> -13 3/8" 48# H40 ST&C new casing set at 400' 12001 9-5/8" 36# HCK/K55 ST&C new casing from 0-1800' Intermediate:

5-1/2" 17# N80 LT&C new casing from 0-9100' Production:

- 10. Casing setting depth and cementing program:
  - 13-3/8" surface casing set at 400' in 17-1/2" hole. Α. Circulate cement with 175sx HES light premium plus w/ 2% CaCl, followed by 250sx PP w/ 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.

9-5/8" intermediate casing set at 1800' in 12-1/4" hole. в. Circulate cement with 365sx Interfill C w/ .25#/sx Flocele followed by 200sx PP w/ 2% CaCl<sub>2</sub>.

> 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. 5-1/2" production casing set at 9100' in 8-3/4" hole. Cement with 805sx Interfill H w/ .1% HR-7 followed by 415sx Super H w/ .5% HR-344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx salt + .2% HR-7.

Estimated top of cement is 5500'.

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

11. Pressure Control Equipment

> 0-400' None

1200 / 625-1<del>800</del>

13-3/8" 3M annular preventer, to be used as divertor only. Exhibit A

1200'

1800-9100'

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 8000'. Exhibit A.

#### D - OXY Roscoe Federal #2 age 3

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.

1200' 625-1<del>800</del>'

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.

1800-5900'

Fresh water. Lime for pH control (9-9.5). Paper for seepage.

Wt. 8.3-8.5 ppg, vis 28-29 sec.

5900-80001

Cut brine. Lime for pH control (10-10.5).

Wt. 9.6-10.0 ppg, vis 28-29 sec.

8000-9100'

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.
- A flowline sensor. 3)

#### APD - OXY Roscoe Federal #2 Page 4

- 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 November 1, 2004. 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 Limited Partnership

DRS/drs

Attachments

Oxy Permian
OXY Roscoe Fed #2 - Plan #1

Eddy Co., New Mexico OXY Roscoe Fed #2

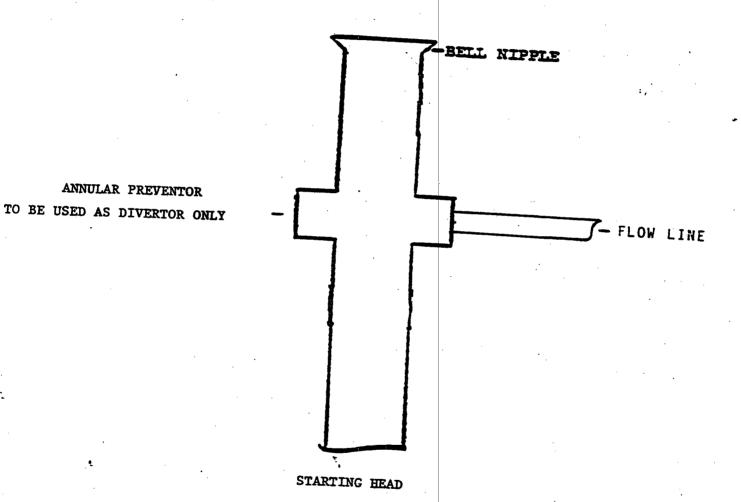
Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
7000.00 7100.00 7200.00 7300.00 7400.00 7500.00 7600.00 7655.89 7700.00	0.000 3.000 6.000 9.000 12.000 15.000 18.000 19.677 19.677	210.498 210.498 210.498 210.498 210.498 210.498 210.498 210.498 210.498	7000.00 7099.95 7199.63 7298.77 7397.08 7494.31 7590.18 7643.07 7684.61	0.00 N 2.26 S 9.01 S 20.26 S 35.96 S 56.07 S 80.54 S 96.09 S 108.89 S	0.00 E 1.33 W 5.31 W 11.93 W 21.18 W 33.03 W 47.44 W 56.60 W 64.14 W	0.00 2.62 10.46 23.51 41.74 65.08 93.48 111.52 126.37	0.00 3.00 3.00 3.00 3.00 3.00 3.00 0.00
7800.00 7800.00 7900.00 8000.00	19.677 19.677 19.677	210.498 210.498 210.498	7084.01 7778.77 7872.93 7967.09	137.90 S 166.92 S 195.93 S	81.22 W 98.31 W 	160.04 193.72 	0.00 0.00 0.00
8100.00 8200.00 8300.00 8400.00 8500.00 8600.00 8700.00	19.677 19.677 19.677 19.677 19.677 19.677 19.677	210.498 210.498 210.498 210.498 210.498 210.498 210.498 210.498	8061.25 8155.41 8249.57 8343.73 8437.89 8532.05 8626.22 8720.38	224.94 S 253.95 S 282.97 S 311.98 S 340.99 S 370.00 S 399.02 S 428.03 S	132.49 W 149.58 W 166.66 W 183.75 W 200.84 W 217.93 W 235.02 W 252.11 W	261.06 294.73 328.40 362.07 362.74 429.41 463.09 496.76	0.00 0.00 0.00 0.00 0.00 0.00 0.00
8900.00 9000.00 9100.00 9203.17	19.677 19.677 19.677 19.677	210.498 210.498 210.498 210.498	8814.54 8908.70 9002.86 9100.00	457.04 S 486.06 S 515.07 S 545.00 S	269.19 W 286.28 W 303.37 W 321.00 W	530.43 564.10 597.77 632.51	0.00 0.00 0.00 0.00

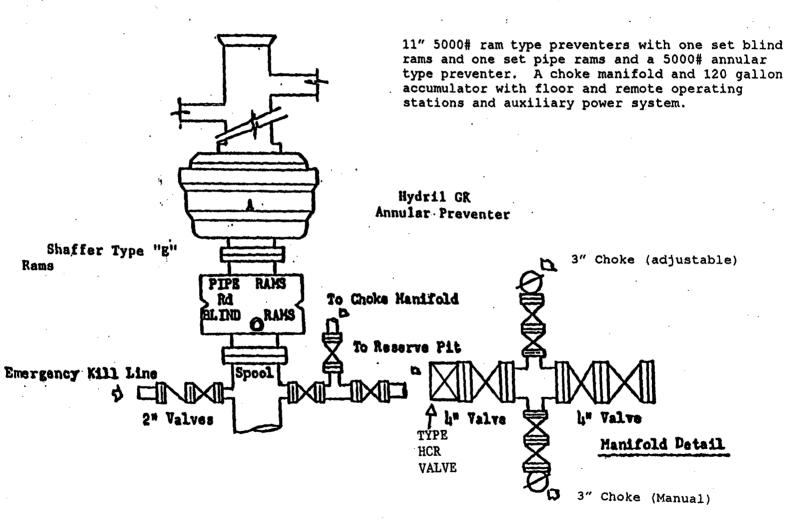
All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to WELL. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet. Vertical Section is from Slot and calculated along an Azimuth of 210.500° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East 3001. Central meridian is -104.333°. Grid Convergence at Surface is 0.025°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 9203.17ft., the Bottom Hole Displacement is 632.51ft., in the Direction of 210.500° (Grid).





Choke Manifold

#### Multi-Point Surface Use and Operations Plan OXY Roscoe Federal #2 Page 4

- 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

Calvin C. (Dusty) Weaver Operation Specialist P.O. Box 2000 Levelland, TX 79336 Office Phone: 806-229-9467 Cellular: 806-893-3067 Joe Fleming
Drilling Coordinator
P.O. Box 50250
Midland, TX 79710-0250
Office Phone: 915-685-5858

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.

8/31/2004

DATE

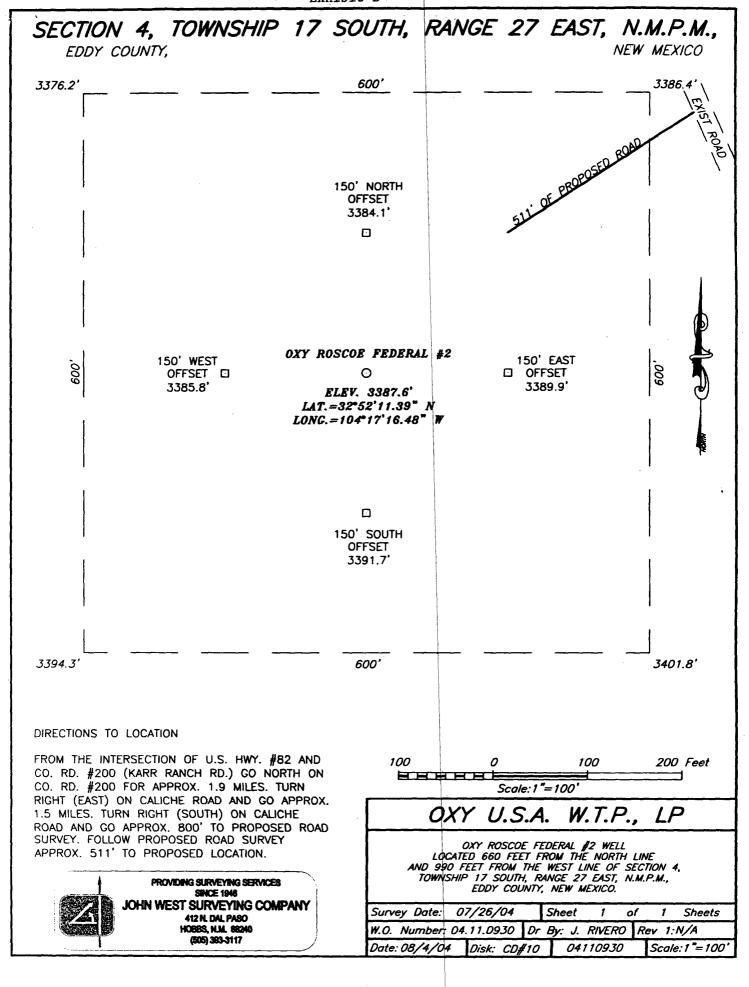
Scott Gengler

Engineering Advisor

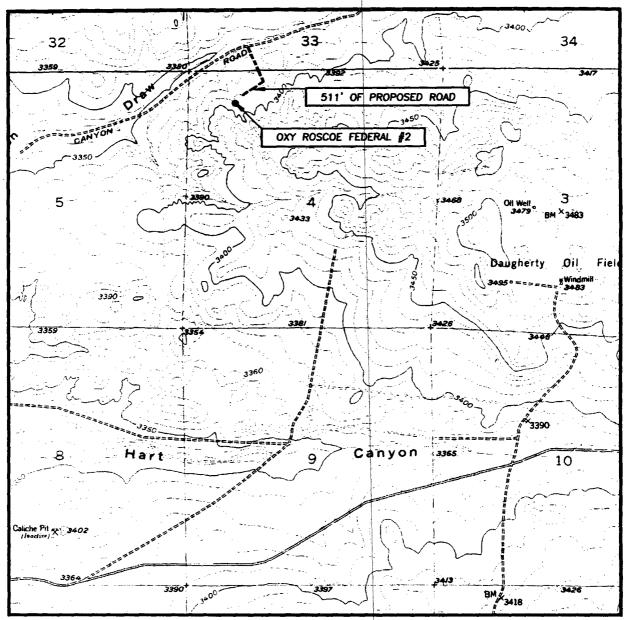
432-685-5825

South Permian Asset Team

OXY USA WTP Limited Partnership



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 4 TWP. 17-S RGE. 27-E

SURVEY N.M.P.M.

COUNTY\_\_\_\_EDDY

DESCRIPTION 660' FNL & 990' FWL

ELEVATION \_\_\_\_\_\_3388'

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

LEASE OXY RESCOE FEDERAL

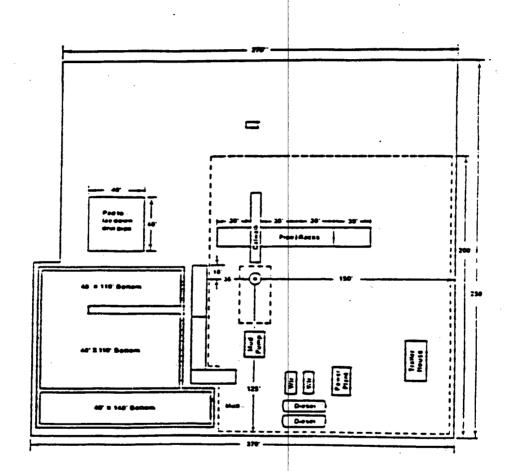
U.S.G.S. TOPOGRAPHIC MAP SPRING LAKE, N.M. CONTOUR INTERVAL: SPRING LAKE, N.M. - 10'

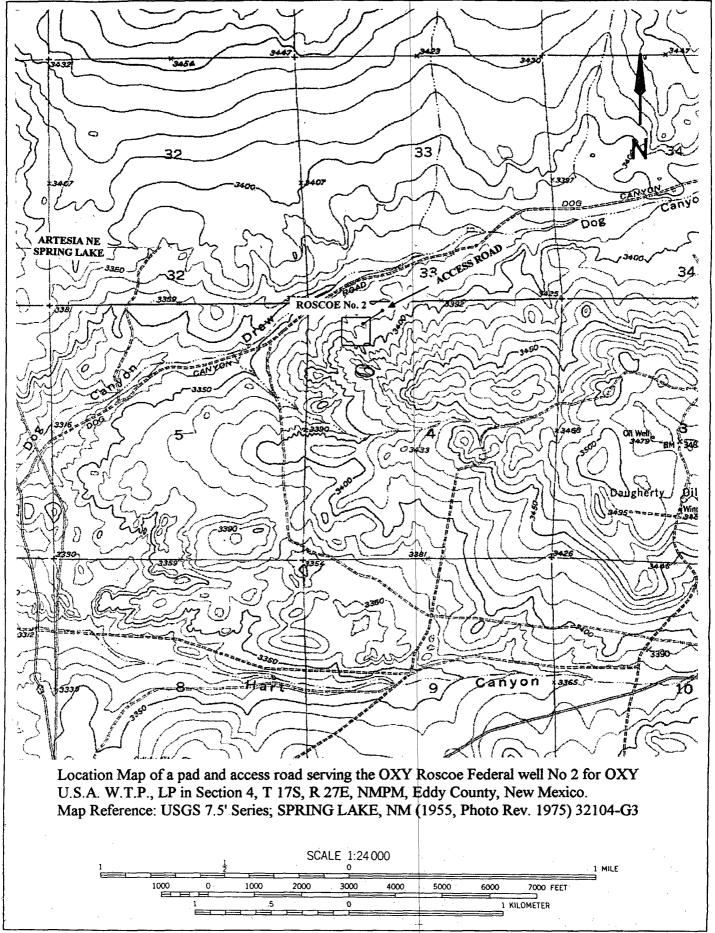


PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
H0688, N.M. 88240
(505) 393-3117



EXHIBIT D





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

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

For

OPL Roscoe Fed. No. 2 660 ft FNL, 990 ft FWL Sec 4, T17S, R27E Eddy County, NM

And

McVay Drilling Co., Rig No. 8

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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.

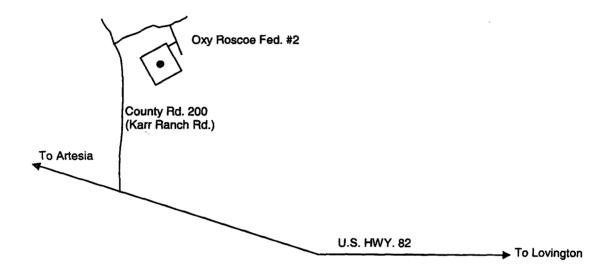
Although the plan addresses varied emergency situations which may occur, it recognizes that flexibility and the use of the organization's knowledge and experience is critical to safe resolution of emergency incidents. Response actions outlined in the plan provide a framework, which may be placed into 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.

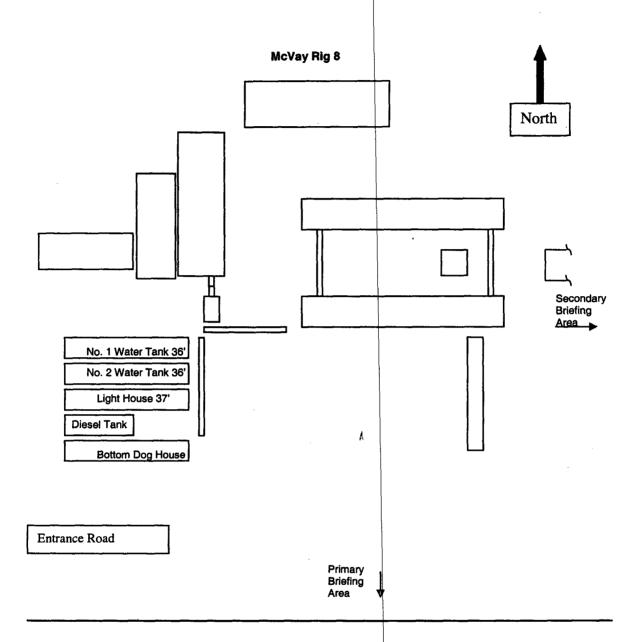
A copy of the Plan shall be maintained in the Top Dog House, Rig Managers trailer, and Company Representative's trailer if applicable.

Oxy Roscoe Fed. No. 2 Y = 680158.9 N X = 513945.8 E Lat. 32°52'11.39"N Long. 104°17'16.48" W





From the intersection of US HWY. 82 and County Rd. 200 (Karr Ranch Rd.) go north on County Rd. 200 for approximately 1.9 miles. Turn right (east) on caliche road and go approximately 1.5 miles. Turn right (south) on caliche road and go approximately 800 ft. Location is 500 ft.



### **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 H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S 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 (SO2). 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 H2S and SO2

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.

#### <u>Derrickman:</u> (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 <u>NOT</u> 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

- 12 (12 ) - 12 (12 )	LOCATION	OFFICE	HOME	CELL	PAGER
Manager Operations .	Support 🕸 🖠				
Hardesty, Steve	Midland	432-685-5880	432/694-6441	713-560-8095	
Team Leader					Lander of the control
Pennington, Randy	Midland	432-685-5684	432/689-7642	432-556-0207	
		<u> </u>	Toledo Bend =	318-590-2349	
Operations Specialist	8				
Fleming, Joe	Midland	432-685-5858	432/699-0875	432-425-6075	432-498-3281
Ray, Fred	Midland	432-685-5683	432/362-2857	432-661-3893	432-499-3432
HES Tech					
Thompson, Don	Midland	432-685-5719	432/684-3900	432-556-1505	

# **Emergency Notification Numbers**

Pilb	lic Authorities	
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

Emerg	gency Services	
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

	mergency Services	
Boots and Coots		1/800-256-9688
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

	en al la companya de	te english to	Carrier Spirit	(3650)	ATTA CA
PERSON	LOCATION	OFFICE	FAX	CELL	PAGER
Asset Management-Operations Area	is .				
OXY Permian General Manager:	Houston	(281)	(281)	(713)	
Tom Menges		552-1147	552-1484		
South Permian Asset:	Midland	(432)	(432)	(432)	
Matt Hyde		685-5802	685-5930		
	Carlos and	alleria di ancio i deserva di Alberta di Servacia	attende marinist evaperio	St. 12 Call And how or Way 1 May	
RMT/PMT Leaders: South Permian A	The same of the same of the second se			1947	
Frontier RMT:	Midland	(432)	(432)	(432)	(432)
Tommy Johnson		685-5671	685-4054	238-9343	567-7038
					Liva State of the state of
		is the sole			
PERSON	LOCATION	OFFICE	FAX	CELL	PAGER
Production Coordinators: S. Permiar	ı Assel	1990 1880 - 1990 1880 - 1990			
New Mexico: John Erickson	Hobbs	(505)	(505)	(505)	(505)
		393-2174	397-2671	390-6426	370-6836
	OXY Permian HES Perso			4.077.44.0	in a second
OXY Permiar	n Crisis Team Hotline Notific	cation (713) 9	35-7210		

PERSON	LOCATION	OFFICE	FAX	CELL	PAGER
<b>HES Coordinators &amp; Area of Re</b>		1.12.727.5.14.6.1		324	AGE I
Frontier: Tom Scott	Midland	(432) 685-5677	(432) 685-5742	(432) 448-1121	(432) 498-1312
<b>HES Techs &amp; Area of Responsil</b>	ollity		A.声数数数数 4.5	CONTROL OF	THE MANAGEME
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)	(505)