

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. 1st Street, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-101  
Revised March 17, 1999

Oil Conservation Division **RECEIVED**  
2040 South Pacheco  
Santa Fe, NM 87505  
JAN 22 2004

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

OCD-ARTESIA ☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address OXY USA WTP Limited Partnership P.O. Box 50250 Midland, TX 79710-0250		<sup>2</sup> OGRID Number 192463
<sup>4</sup> Property Code	<sup>5</sup> Property Name C.D.M. A Com	<sup>3</sup> API Number 30- 015- 33190 <sup>6</sup> Well No. 2

<sup>7</sup>Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
D	29	21S	27E		1219	north	1007	west	Eddy

<sup>8</sup>Proposed 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
K	29	21S	27E		1320	south	1320	west	Eddy

<sup>9</sup> Proposed Pool 1 Burton Flat Morrow 73280	<sup>10</sup> Proposed Pool 2
--	-------------------------------

<sup>11</sup> Work Type Code N	<sup>12</sup> Well Type Code G	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3145'
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 11750'	<sup>18</sup> Formation Morrow	<sup>19</sup> Contractor N/A	<sup>20</sup> Spud Date 2/1/04

<sup>21</sup>Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	625'	400sx	surface-circulate
12-1/4"	9-5/8"	36#	<del>270'</del> 2700'	1200sx	surface-circulate
8-3/4"	5-1/2"	17#	11750'	1100sx	Est TOC-7500'

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

See Other Side

NOTIFY OCD SPUD & TIME  
TO WITNESS 5/8" CASING  
@ 2700'

Fresh Water Mud To @ 2700'

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>David Stewart</i> Printed name: David Stewart Title: Sr. Regulatory Analyst Date: 1/21/04 Phone: 432-685-5717		OIL CONSERVATION DIVISION Approved by: <i>Jim W. Lewis</i> Title: SUPERVISOR, DISTRICT II Approval Date: JAN 26 2004 Expiration Date: JAN 26 2005 Conditions of Approval: Attached <input type="checkbox"/>
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DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102  
Revised February 10, 1994  
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 73280	Pool Name Burton Flat Morrow
Property Code 27967	Property Name OXY CDM A COM	Well Number 2
GRID No. 192463	Operator Name OXY U.S.A. WTP, LP	Elevation 3145'

Surface Location

UL or lot No. D	Section 29	Township 21-S	Range 27-E	Lot Idn	Feet from the 1219	North/South line NORTH	Feet from the 1007	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. L	Section 29	Township 21-S	Range 27-E	Lot Idn	Feet from the 1320	North/South line SOUTH	Feet from the 1320	East/West line WEST	County EDDY
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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

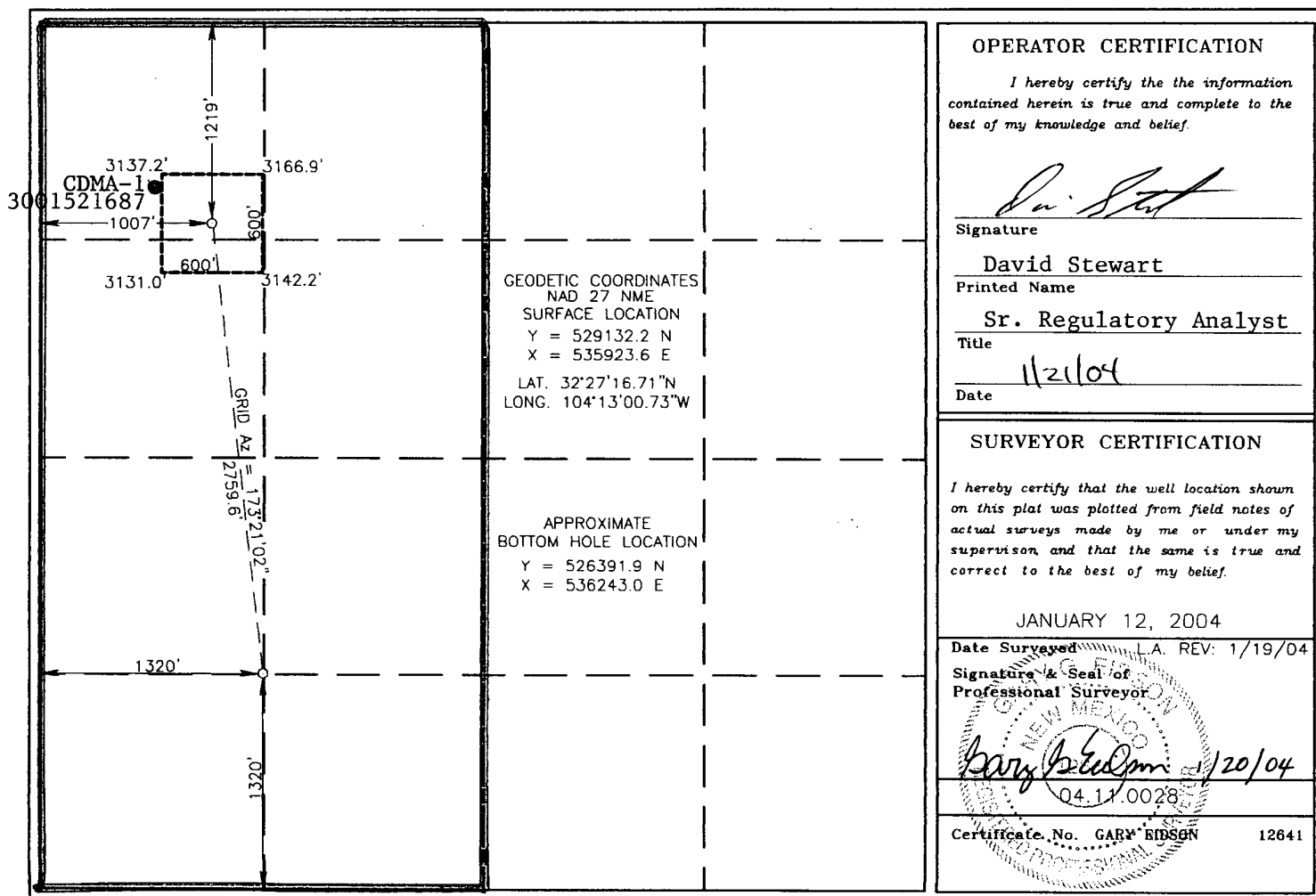
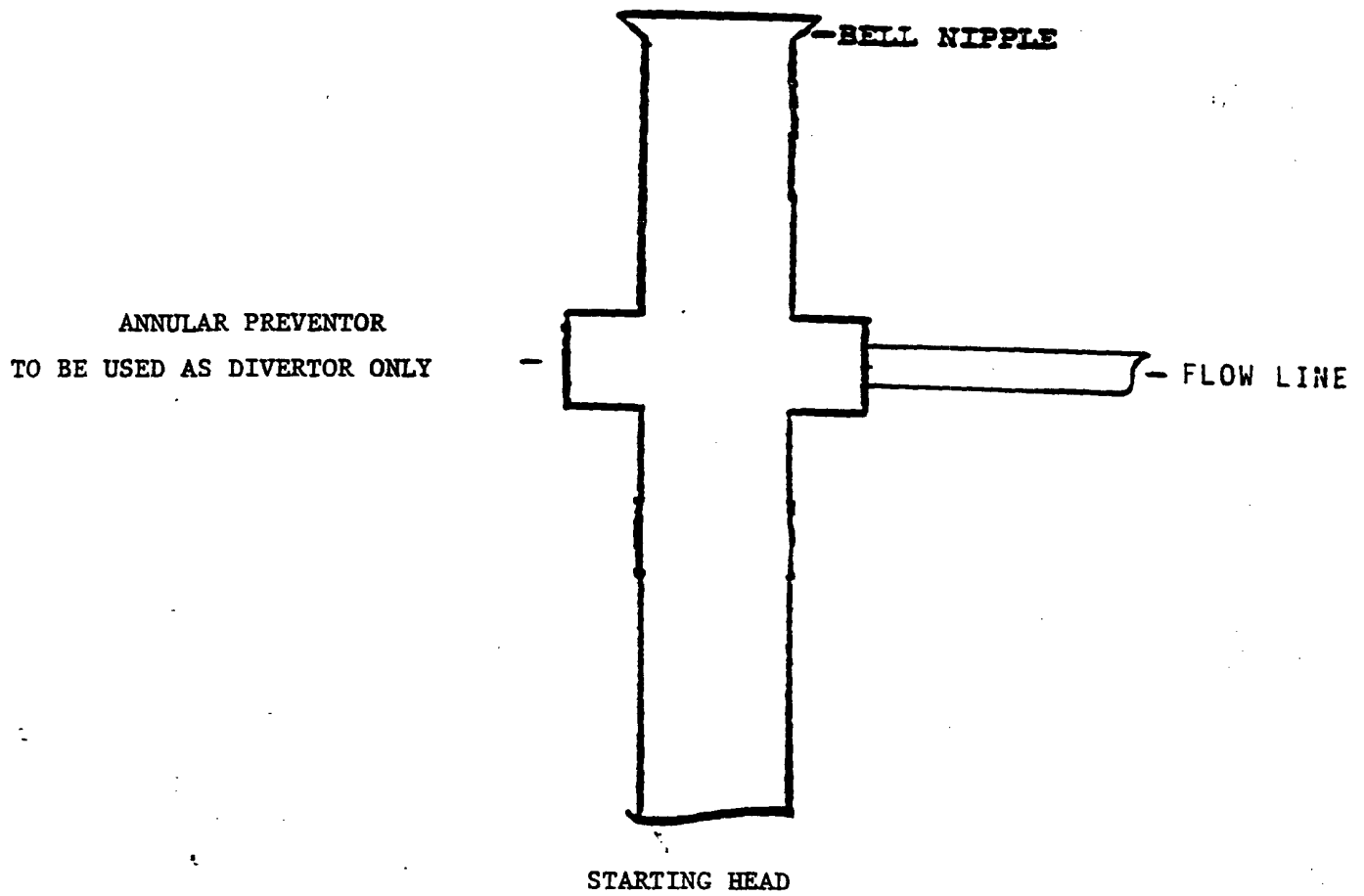
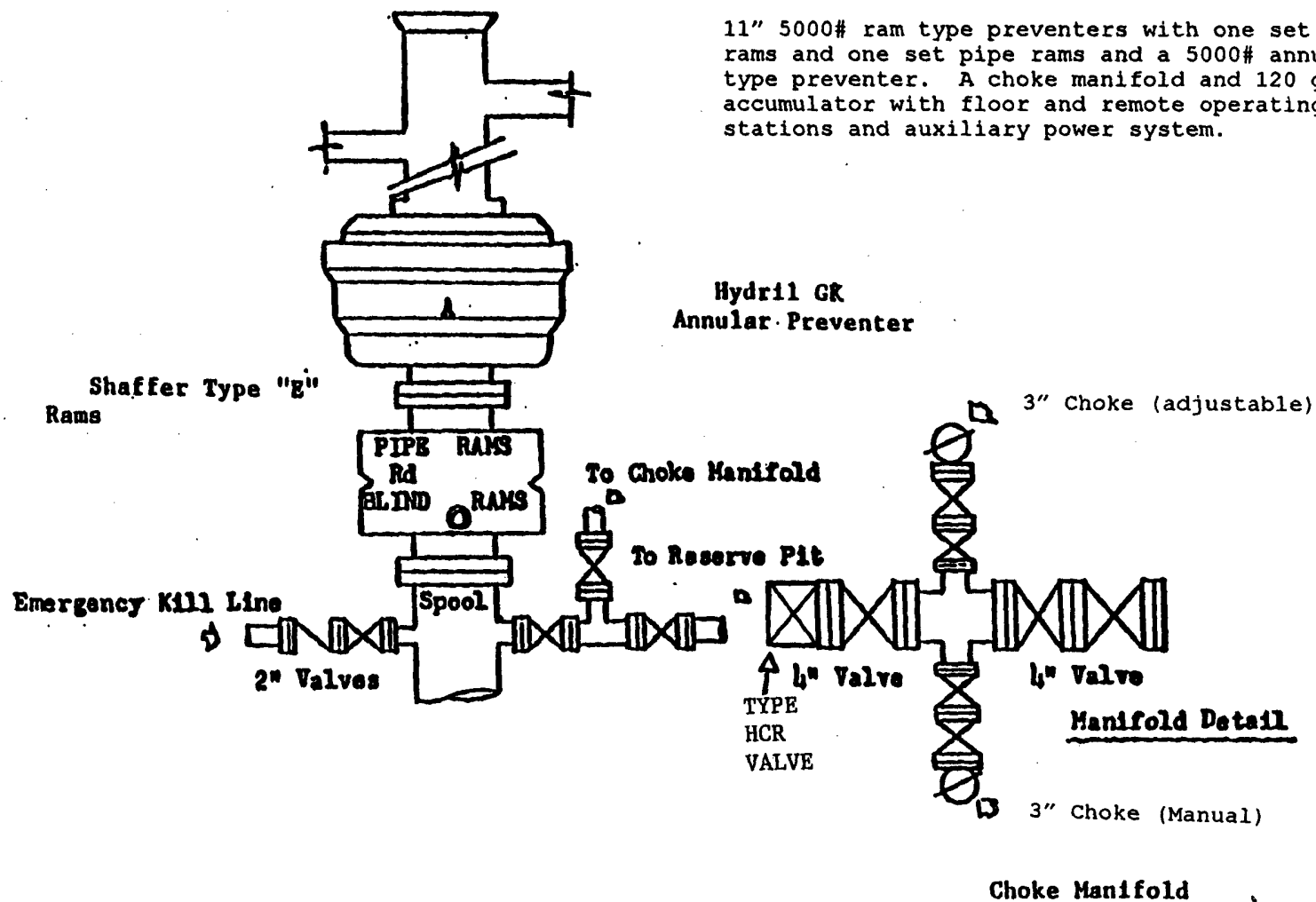


EXHIBIT A



# BLOWOUT PREVENTOR SCHEME

EXHIBIT A



11" 5000# ram type preventers with one set blind rams and one set pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system.

Hydril GK  
Annular Preventer

Shaffer Type "g"  
Rams

PIPE RAMS  
BLIND RAMS

Spool

Emergency Kill Line

2" Valves

To Choke Manifold

To Reserve Pit

4" Valve  
TYPE HCR  
VALVE

3" Choke (adjustable)

Manifold Detail

3" Choke (Manual)

Choke Manifold

Oxy Permian  
CDM A #2 - Plan #2

Eddy Co., New Mexico  
CDM A #2

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
5700.00	0.000	173.486	5700.00	0.00 N	0.00 E	0.00	0.00
5779.43	0.000	173.486	5779.43	0.00 N	0.00 E	0.00	0.00
5800.00	0.617	173.486	5800.00	0.11 S	0.01 E	0.11	3.00
5900.00	3.617	173.486	5899.92	3.78 S	0.43 E	3.80	3.00
6000.00	6.617	173.486	5999.51	12.64 S	1.44 E	12.72	3.00
6100.00	9.617	173.486	6098.50	26.67 S	3.05 E	26.84	3.00
6200.00	12.617	173.486	6196.61	45.82 S	5.23 E	46.12	3.00
6300.00	15.617	173.486	6293.58	70.05 S	8.00 E	70.51	3.00
6400.00	18.617	173.486	6389.14	99.29 S	11.34 E	99.94	3.00
6500.00	21.617	173.486	6483.03	133.46 S	15.24 E	134.33	3.00
6600.00	24.617	173.486	6574.99	172.46 S	19.69 E	173.58	3.00
6700.00	27.617	173.486	6664.77	216.20 S	24.69 E	217.60	3.00
6779.43	30.000	173.486	6734.36	254.22 S	29.03 E	255.87	3.00
6800.00	30.000	173.486	6752.17	264.44 S	30.20 E	266.16	0.00
6900.00	30.000	173.486	6838.78	314.12 S	35.87 E	316.16	0.00
7000.00	30.000	173.486	6925.38	363.79 S	41.54 E	366.16	0.00
7100.00	30.000	173.486	7011.98	413.47 S	47.22 E	416.16	0.00
7200.00	30.000	173.486	7098.58	463.15 S	52.89 E	466.16	0.00
7300.00	30.000	173.486	7185.19	512.83 S	58.56 E	516.16	0.00
7400.00	30.000	173.486	7271.79	562.50 S	64.23 E	566.16	0.00
7500.00	30.000	173.486	7358.39	612.18 S	69.91 E	616.16	0.00
7600.00	30.000	173.486	7444.99	661.86 S	75.58 E	666.16	0.00
7700.00	30.000	173.486	7531.60	711.53 S	81.25 E	716.16	0.00
7800.00	30.000	173.486	7618.20	761.21 S	86.92 E	766.16	0.00
7900.00	30.000	173.486	7704.80	810.89 S	92.60 E	816.16	0.00
8000.00	30.000	173.486	7791.40	860.57 S	98.27 E	866.16	0.00
8100.00	30.000	173.486	7878.01	910.24 S	103.94 E	916.16	0.00
8200.00	30.000	173.486	7964.61	959.92 S	109.62 E	966.16	0.00
8300.00	30.000	173.486	8051.21	1009.60 S	115.29 E	1016.16	0.00
8400.00	30.000	173.486	8137.81	1059.28 S	120.96 E	1066.16	0.00
8500.00	30.000	173.486	8224.42	1108.95 S	126.63 E	1116.16	0.00
8600.00	30.000	173.486	8311.02	1158.63 S	132.31 E	1166.16	0.00
8700.00	30.000	173.486	8397.62	1208.31 S	137.98 E	1216.16	0.00
8800.00	30.000	173.486	8484.22	1257.98 S	143.65 E	1266.16	0.00
8900.00	30.000	173.486	8570.83	1307.66 S	149.32 E	1316.16	0.00
9000.00	30.000	173.486	8657.43	1357.34 S	155.00 E	1366.16	0.00
9100.00	30.000	173.486	8744.03	1407.02 S	160.67 E	1416.16	0.00
9200.00	30.000	173.486	8830.63	1456.69 S	166.34 E	1466.16	0.00
9300.00	30.000	173.486	8917.24	1506.37 S	172.02 E	1516.16	0.00
9400.00	30.000	173.486	9003.84	1556.05 S	177.69 E	1566.16	0.00
9500.00	30.000	173.486	9090.44	1605.72 S	183.36 E	1616.16	0.00

CDMA #1 Plan #2 Report 1-20-03.txt

9600.00	30.000	173.486	9177.04	1655.40 S	189.03 E	1666.16	0.00
9700.00	30.000	173.486	9263.65	1705.08 S	194.71 E	1716.16	0.00
9800.00	30.000	173.486	9350.25	1754.76 S	200.38 E	1766.16	0.00
9900.00	30.000	173.486	9436.85	1804.43 S	206.05 E	1816.16	0.00
10000.00	30.000	173.486	9523.45	1854.11 S	211.72 E	1866.16	0.00
10100.00	30.000	173.486	9610.06	1903.79 S	217.40 E	1916.16	0.00
10200.00	30.000	173.486	9696.66	1953.46 S	223.07 E	1966.16	0.00
10300.00	30.000	173.486	9783.26	2003.14 S	228.74 E	2016.16	0.00
10400.00	30.000	173.486	9869.86	2052.82 S	234.42 E	2066.16	0.00
10500.00	30.000	173.486	9956.47	2102.50 S	240.09 E	2116.16	0.00
10600.00	30.000	173.486	10043.07	2152.17 S	245.76 E	2166.16	0.00
10700.00	30.000	173.486	10129.67	2201.85 S	251.43 E	2216.16	0.00
10800.00	30.000	173.486	10216.28	2251.53 S	257.11 E	2266.16	0.00
10900.00	30.000	173.486	10302.88	2301.20 S	262.78 E	2316.16	0.00
11000.00	30.000	173.486	10389.48	2350.88 S	268.45 E	2366.16	0.00
11100.00	30.000	173.486	10476.08	2400.56 S	274.12 E	2416.16	0.00
11167.03	30.000	173.486	10534.13	2433.86 S	277.93 E	2449.67	0.00
11200.00	29.176	173.486	10562.80	2450.03 S	279.77 E	2465.95	2.50
11300.00	26.676	173.486	10651.15	2496.56 S	285.09 E	2512.78	2.50
11400.00	24.176	173.486	10741.46	2539.21 S	289.96 E	2555.71	2.50
11500.00	21.676	173.486	10833.55	2577.91 S	294.38 E	2594.66	2.50
11600.00	19.176	173.486	10927.26	2612.58 S	298.34 E	2629.56	2.50
11700.00	16.676	173.486	11022.40	2643.16 S	301.83 E	2660.34	2.50
11800.00	14.176	173.486	11118.79	2669.58 S	304.84 E	2686.93	2.50
11900.00	11.676	173.486	11216.24	2691.81 S	307.38 E	2709.30	2.50
12000.00	9.176	173.486	11314.59	2709.78 S	309.44 E	2727.39	2.50
12100.00	6.676	173.486	11413.62	2723.48 S	311.00 E	2741.18	2.50
12200.00	4.176	173.486	11513.17	2732.88 S	312.07 E	2750.64	2.50
12287.03	2.000	173.486	11600.06	2737.53 S	312.60 E	2755.32	2.50
12300.00	2.000	173.486	11613.03	2737.98 S	312.66 E	2755.78	0.00
12387.03	2.000	173.486	11700.00	2741.00 S	313.00 E	2758.81	0.00

All data are in feet unless otherwise stated. Directions and coordinates are relative to True 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 173.490° (True).

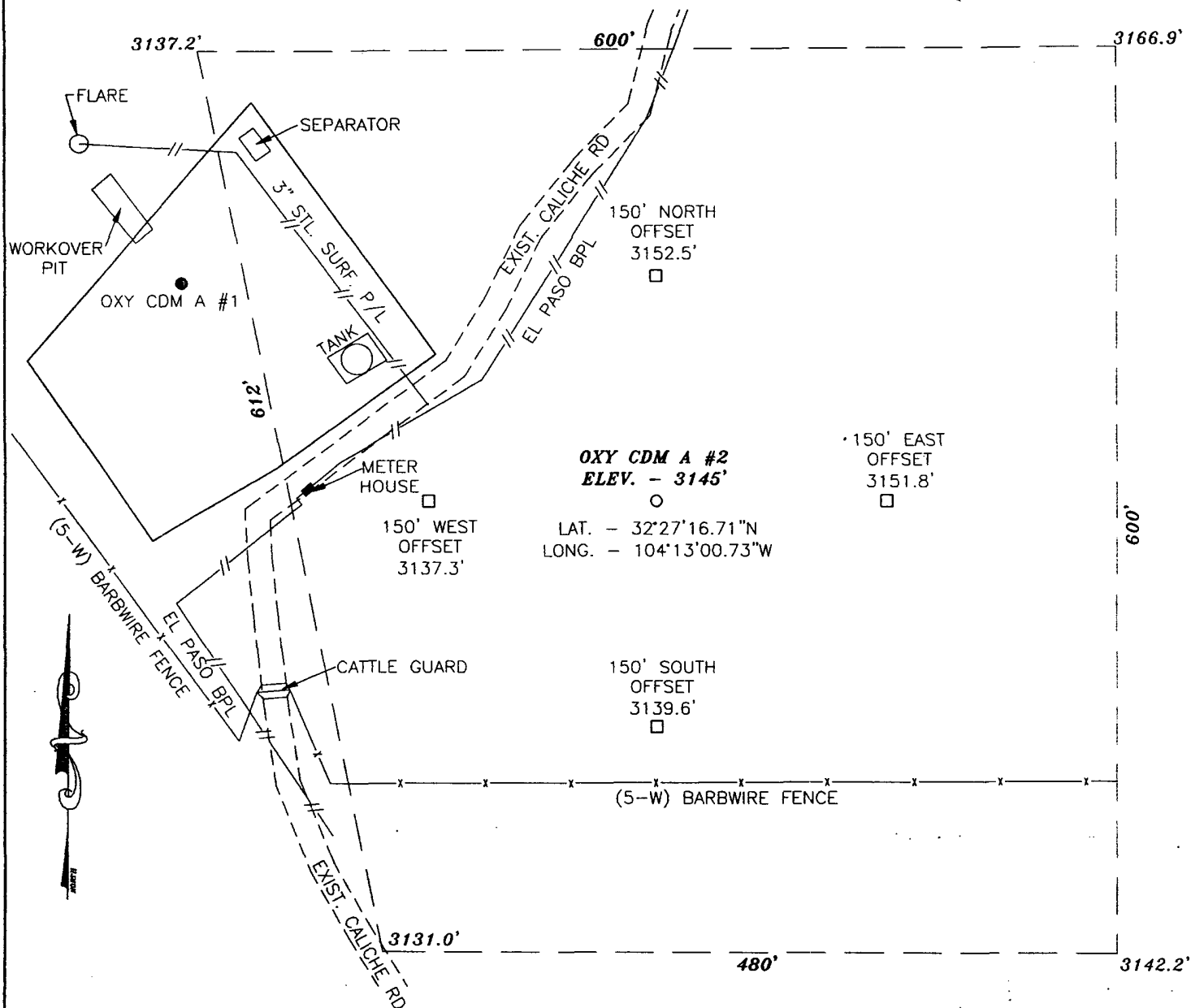
Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East 3001.

Central meridian is -104.333°.

Grid Convergence at Surface is 0.099°.

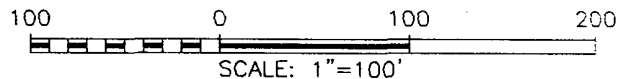
Based upon Minimum Curvature type calculations, at a Measured Depth of 12387.03ft., the Bottom Hole Displacement is 2758.81ft., in the Direction of 173.490° (True).

SECTION 29, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF U.S. HWY. 62-180 AND THE CARLSBAD RELIEF ROUTE (APPROX. 500' SOUTH-SOUTHWEST OF MILE MARKER 39). GO NORTH-NORTHWEST ALONG RELIEF ROUTE APPROX. 1.0 MILES AND TURN LEFT (WEST) ON A 20' CALICHE ROAD. GO WEST APPROX. 0.66 OF A MILE AND TURN RIGHT AT ROAD INTERSECTION. GO NORTH 0.25 OF A MILE AND TURN LEFT. THE ROAD CURVES TO RIGHT APPROX. 0.15 MILES, GO NORTH ANOTHER 0.1 OF A MILE TURN LEFT. GO WEST 0.88 MILES AND VERE LEFT OFF ROAD (JUST BEFORE IT TURNS NORTH) AND GO WEST ALONG SAND & ROCK ROAD (MEANDERING) APPROX. 0.26 MILES AND STOP THE OXY USA CDMA #1 WILL BE ON THE WEST, (RIGHT SIDE). THE OXY USA CDMA #2 IS APPROX. 150' EAST.



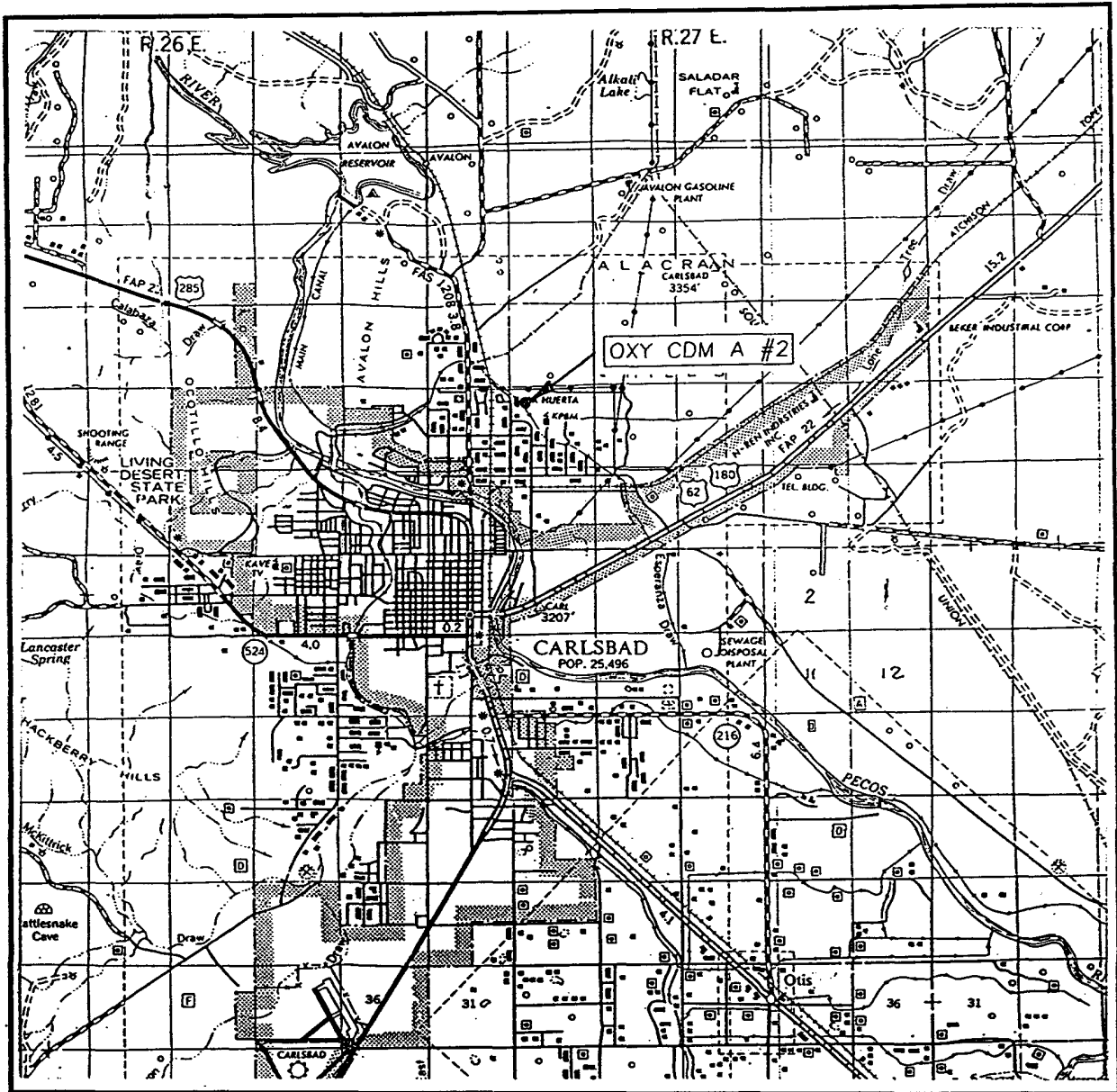
OXY U.S.A. W.T.P., LP

THE OXY CDM A #2 LOCATED 1219 FROM  
THE NORTH LINE AND 1007 FROM THE WEST LINE  
SECTION 29, TOWNSHIP 21 SOUTH, RANGE 27 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

JOHN WEST SURVEYING COMPANY  
412 N. DAL PASO - HOBBS, NEW MEXICO - 505-393-3117

Survey Date: 1/12/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.0028	Drawn By: L.A.
Date: 1/14/04	DISK:CD#3
	04110028

# VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 29 TWP. 21-S RGE. 27-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1219' FNL & 1007' FWL

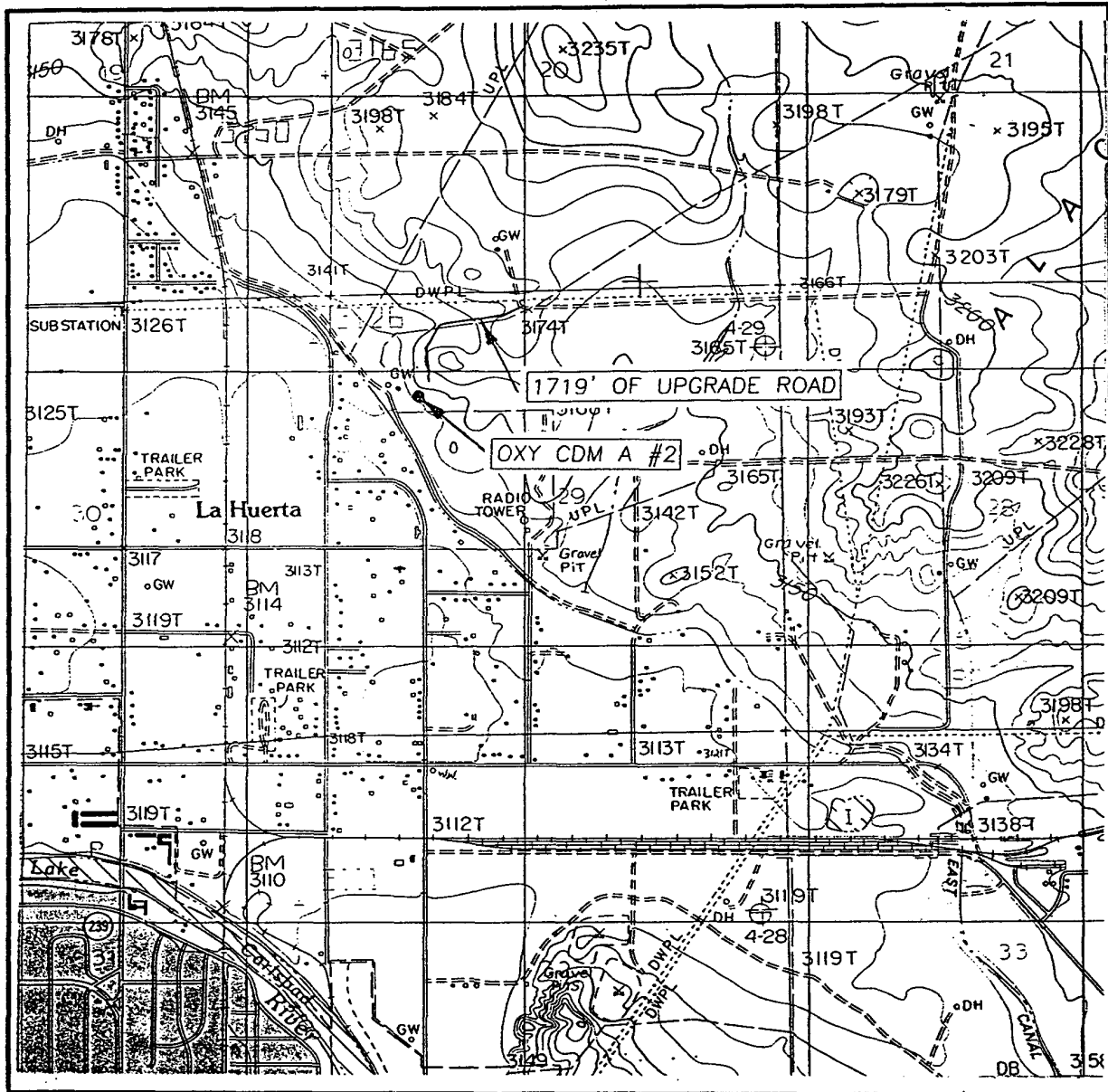
ELEVATION 3145'

OPERATOR OXY U.S.A. WTP, LP.

LEASE OXY CDM A

**JOHN WEST SURVEYING**  
**HOBBS, NEW MEXICO**  
**(505) 393-3117**





CONTOUR INTERVAL: 5'  
CARLSBAD EAST, N.M.

SURVEY \_\_\_\_\_ N.M.P.M.

COUNTY EDDY

DESCRIPTION 1219' FNL & 1007' FWL  
ELEVATION 3145'

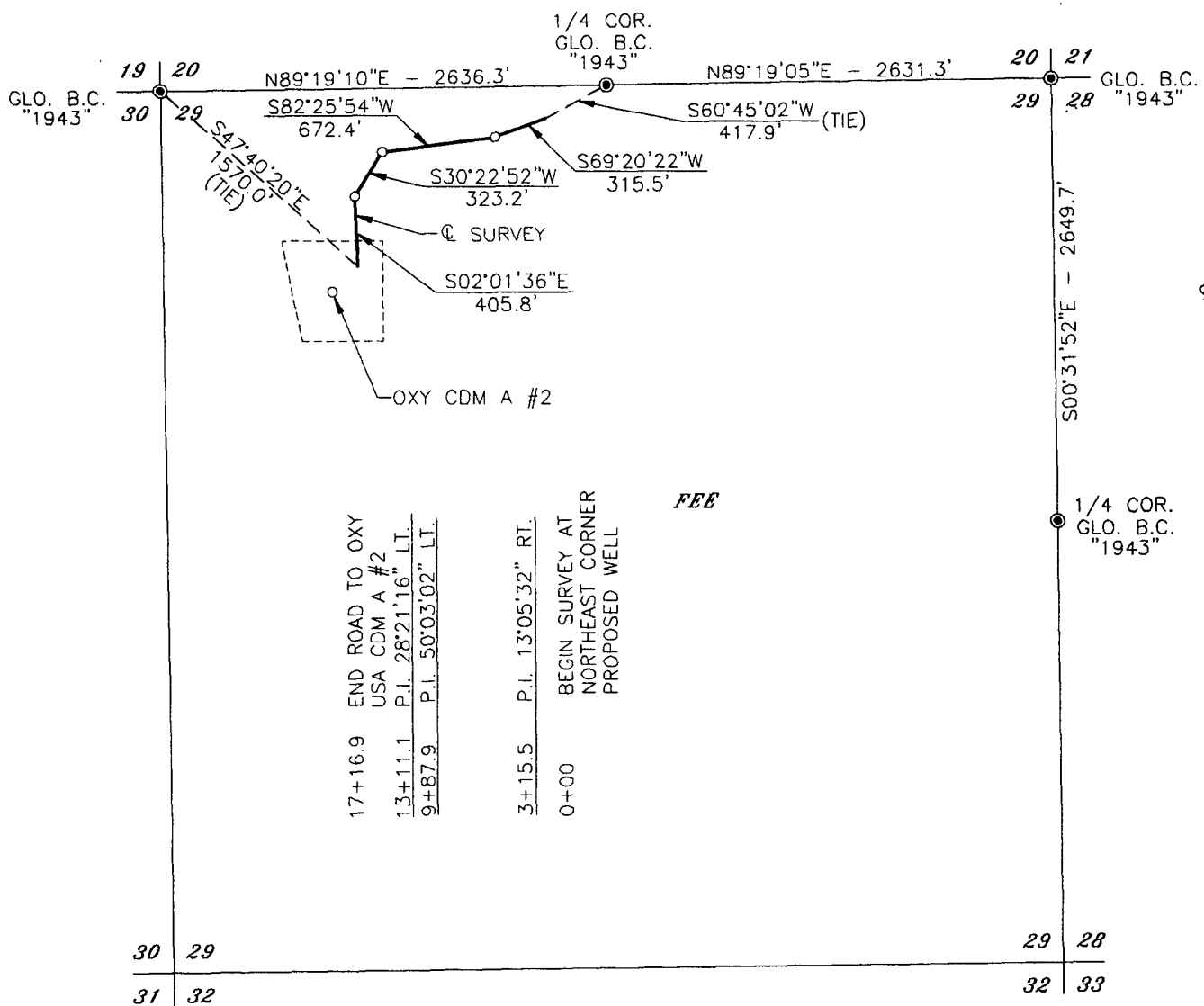
OPERATOR OXY U.S.A WTP, LP.

LEASE OXY CDM A

U.S.G.S. TOPOGRAPHIC MAP  
CARLSBAD EAST, N.M.

JOHN WEST SURVEYING  
HOBBS, NEW MEXICO  
(505) 393-3117

SECTION 29, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



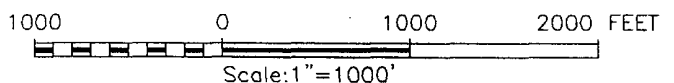
DESCRIPTION

CENTERLINE SURVEY OF A ROADWAY EASEMENT IN SECTION 29, TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM, EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 29 WHICH LIES S60°45'02\"W 417.9 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION; THEN S69°20'22\"W 315.5 FEET; THEN S82°25'54\"W 672.4 FEET; THEN S30°22'52\"W 323.2 FEET; THEN S02°01'36\"E 405.8 FEET TO A POINT IN THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 29 WHICH LIES S47°40'20\"E 1570.0 FEET FROM THE NORTHWEST CORNER OF SAID SECTION.

TOTAL LENGTH EQUALS 1716.9 FEET OR 104.05 RODS

NOTE: BEARINGS SHOWN HEREON ARE  
MERCATOR GRID AND CONFORM TO THE  
NEW MEXICO COORDINATE SYSTEM  
"NEW MEXICO EAST ZONE" NORTH  
AMERICAN DATUM 1983. DISTANCES  
ARE SURFACE VALUES.



I HEREBY CERTIFY THAT I DIRECTED AND AM  
RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS  
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE  
AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET  
THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

GARY G. EIDSON  
NEW MEXICO  
Professional Surveyor  
1/15/04

GARY G. EIDSON N.M. P.S. No. 12641

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO -- HOBBS, NEW MEXICO - 505-393-3117

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

SURVEY A ROAD EASEMENT IN  
SECTION 29, TOWNSHIP 21 SOUTH, RANGE 27 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO,

Survey Date: 1/12/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.0028	Drawn By: L.A.
Date: 1/14/04	DISK:CD#3 04110028

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

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

**For**

**OXY CDM No. 2  
1219 ft FNL, 1007 ft FWL  
Sec 29, T21S, R27E  
Eddy County, NM**

**And**

**McVay Drilling Co., Rig No. 8**

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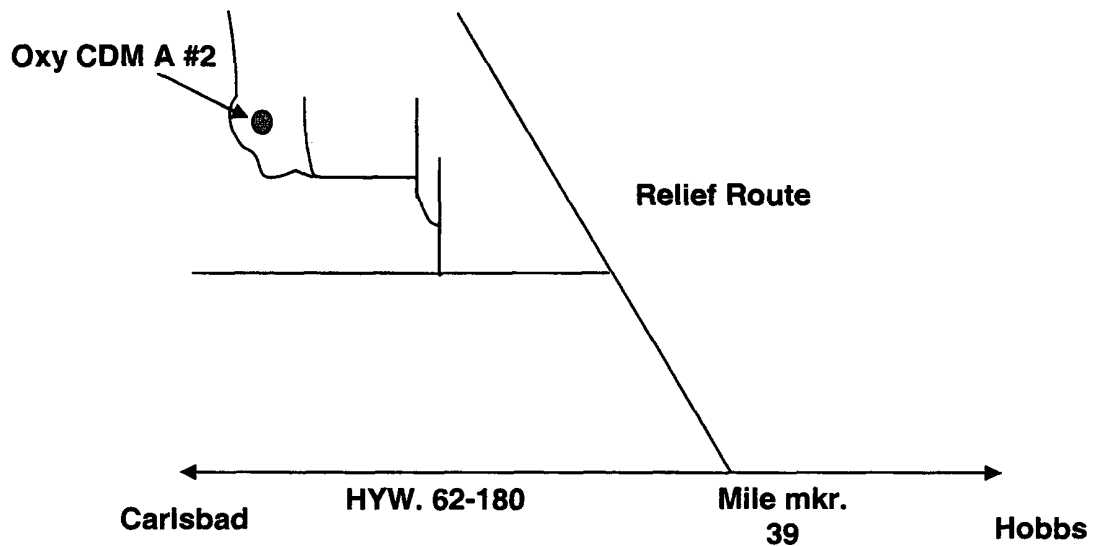
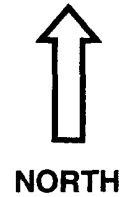
## **PREFACE**

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.

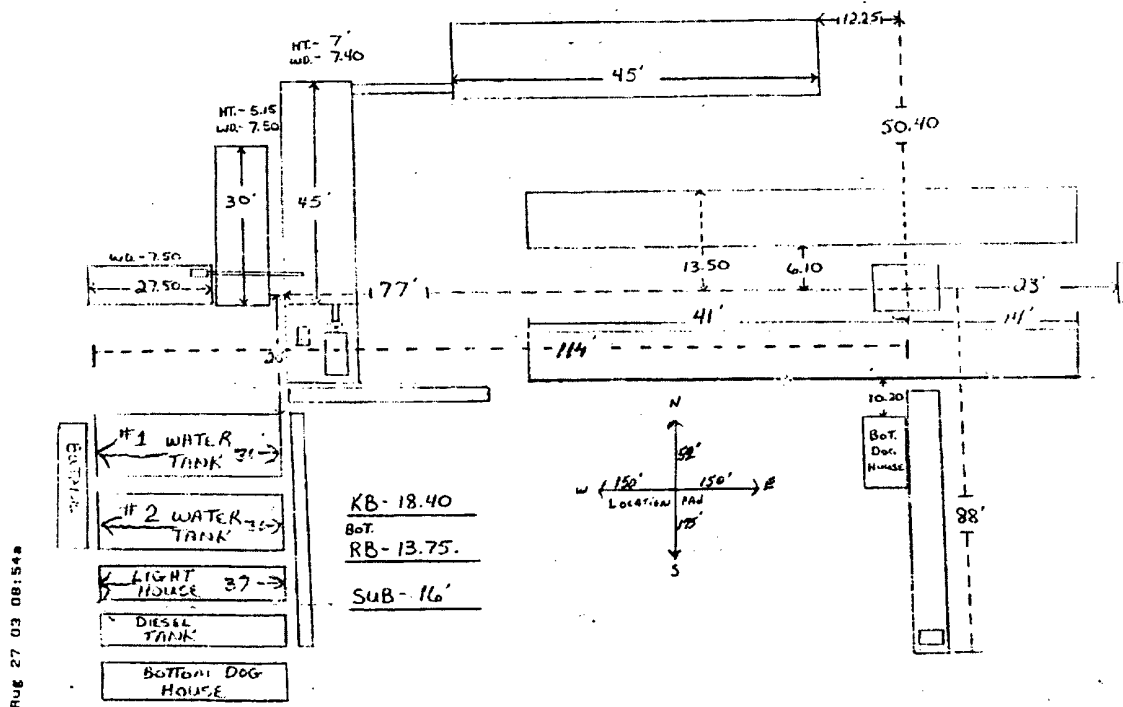
This Contingency Plan is intended for use on Oxy Downhole Services Group projects and the operations within their area of responsibility, such as drilling, critical well work, etc.

**OXY CDM A #2**  
**LAT. - 32°27'16.71"N**  
**LONG. - 104°13'00.73"W**  
**Y = 529132.2 N**  
**X = 535923.6 E**



From the intersection of US Hwy. 62-180 and the Carlsbad Relief Route go north-northwest approx. 1 mile and turn left onto a 20' wide caliche road. Go west approx. 0.66 of a mile and turn right at road intersection. Go north 0.25 of a mile and turn left. The road curves right approx. 0.15 miles, go north another 0.1 of a mile turn left. Go west 0.88 and veer left off road (just before it turns north) and go west along sand & rock road (meandering) approx. 0.26 miles. The well will be on the right.

# RIG #8



Rug 27 03 08:54a

## **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 five (5) through nine (10) 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 five (5) through nine (9) 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**

All responders must have training in the detection of H2Sm measures for protection against the gas, equipment used for protection and emergency response. Weekly drills by all crews will be conducted and recorded in the IADC daily log. Additionally, responders must be equipped with H2S monitors at all times

### 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.

### 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 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	432-498-3281
Ray, Fred	Midland	432-685-5683	432/362-2857	432-661-3893	432-499-3432
<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	Artesia	911
Fire Fighting, Rescue & Ambulance	Carlsbad	911
Fire Fighting, Rescue & Ambulance	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		1/800-256-9688
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**

PERSON	LOCATION	OFFICE	FAX	CELL	PAGER
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**Asset Management-Operations Areas**

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	

**RMT/PMT Leaders: South Permian Asset**

Frontier RMT: Tommy Johnson	Midland	(432) 685-5671	(432) 685-4054	(432) 238-9343	(432) 567-7038
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PERSON	LOCATION	OFFICE	FAX	CELL	PAGER
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**Production Coordinators: S. Permian Asset**

New Mexico: John Erickson	Hobbs	(505) 393-2174	(505) 397-2671	(505) 390-6426	(505) 370-6836
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**OXY Permian HES Personnel  
OXY Permian Crisis Team Hotline Notification (713) 935-7210**

PERSON	LOCATION	OFFICE	FAX	CELL	PAGER
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**HES Coordinators & Area of Responsibility**

Frontier: Tom Scott	Midland	(432) 685-5677	(432) 685-5742	(432) 448-1121	(432) 498-1312
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**HES Techs & Area of Responsibility**

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