

General evacuation plan

1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H<sub>2</sub>S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
3. Company or contractor safety personnel that have been trained in the use of H<sub>2</sub>S detection equipment and self-contained breathing equipment will monitor H<sub>2</sub>S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

**Important: Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.**

**Emergency actions**

Well blowout – if emergency

1. Evacuate all personnel to “Safe Briefing / Muster Areas” or off location if needed.
2. If sour gas – evacuate rig personnel.
3. If sour gas – evacuate public within 3000 ft radius of exposure.
4. Don SCBA and shut well in if possible using the buddy system.
5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
6. Give first aid as needed.

Person down location/facility

1. If immediately possible, contact 911. Give location and wait for confirmation.
2. Don SCBA and perform rescue operation using buddy system.

### Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity – 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Table i  
Toxicity of various gases

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cyanide	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H <sub>2</sub> S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So <sub>2</sub>	2.21	5 ppm	-	1000 ppm
Chlorine	Cl <sub>2</sub>	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co <sub>2</sub>	1.52	5000 ppm	5%	10%
Methane	Ch <sub>4</sub>	0.55	90,000 ppm	Combustible above 5% in air	

- 1) threshold limit – concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
- 2) hazardous limit – concentration that will cause death with short-term exposure.
- 3) lethal concentration – concentration that will cause death with short-term exposure.

### Toxic effects of hydrogen sulfide

Table ii  
Physical effects of hydrogen sulfide

Percent (%)	Ppm	Concentration		Physical effects
		Grains	100 std. Ft <sup>3</sup> *	
0.001	<10	00.65		Obvious and unpleasant odor.

0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in 3 – 15 minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

\*at 15.00 psia and 60°f.

Use of self-contained breathing equipment (SCBA)

1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
2. SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
3. Anyone who may use the SCBA's shall be trained in how to insure proper face-piece to face seal. They shall wear SCBA's in normal air and then wear them in a test atmosphere. (note: such items as facial hair {beard or sideburns} and eyeglasses will not allow proper seal.) Anyone that may be reasonably expected to wear SCBA's should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses or contact lenses.
4. Maintenance and care of SCBA's:
  - a. A program for maintenance and care of SCBA's shall include the following:
    1. Inspection for defects, including leak checks.
    2. Cleaning and disinfecting.
    3. Repair.
    4. Storage.
  - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
    1. Fully charged cylinders.
    2. Regulator and warning device operation.
    3. Condition of face piece and connections.
    4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
  - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
6. SCBA's should be worn when:
  - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H2S.

- B. When breaking out any line where H<sub>2</sub>S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H<sub>2</sub>S exists.
- D. When working in areas where over 10 ppm H<sub>2</sub>S has been detected.
- E. At any time there is a doubt as to the H<sub>2</sub>S level in the area to be entered.

**Rescue**  
**First aid for H<sub>2</sub>S poisoning**

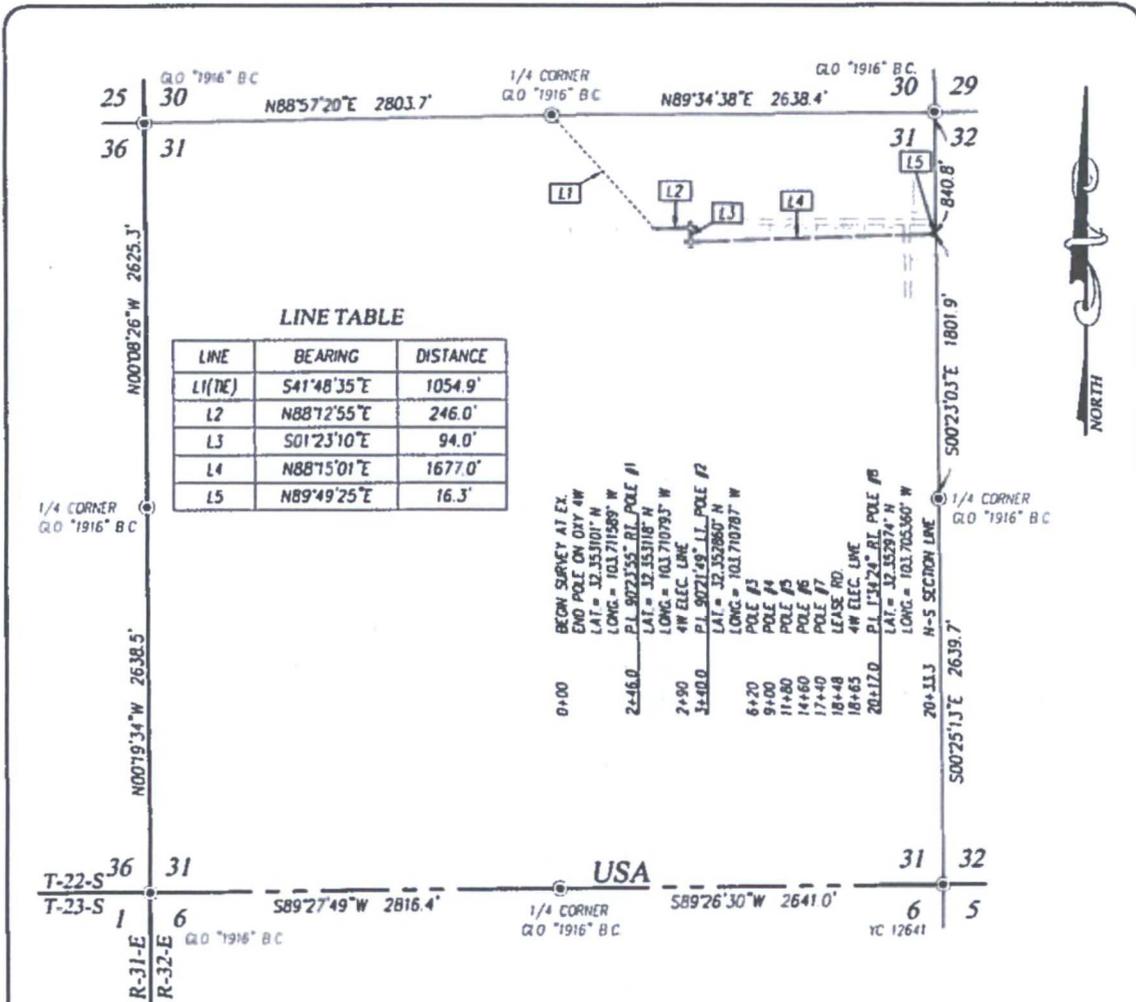
Do not panic!

Remain calm – think!

1. Don SCBA breathing equipment.
2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
3. Briefly apply chest pressure – arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H<sub>2</sub>S gas poisoning – no matter how remote the possibility is.
6. Notify emergency room personnel that the victim(s) has been exposed to H<sub>2</sub>S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.





**LINE TABLE**

LINE	BEARING	DISTANCE
L1(TE)	S41°48'35"E	1054.9'
L2	N88°12'55"E	246.0'
L3	S01°23'10"E	94.0'
L4	N88°15'01"E	1677.0'
L5	N89°49'25"E	16.3'

0+00 BEGIN SURVEY AT EX. END POLE ON OXY 4W  
 LAT = 32.353101° N  
 LONG = 103.711589° W  
 2+46.0 P.L. 8072355° RL POLE #1  
 LAT = 32.353101° N  
 LONG = 103.710793° W  
 2+90 4W ELEC. LINE  
 P.L. 9072149° LL POLE #2  
 LAT = 32.352860° N  
 LONG = 103.710787° W  
 6+20 POLE #3  
 9+00 POLE #4  
 11+80 POLE #5  
 14+60 POLE #6  
 17+40 POLE #7  
 18+48 LEASE RD  
 18+65 4W ELEC. LINE  
 20+17.0 P.L. 13428° RL POLE #8  
 LAT = 32.352974° N  
 LONG = 103.705560° W  
 20+31.3 N-S SECTION LINE

**DESCRIPTION**

SURVEY OF A STRIP OF LAND 500 FEET WIDE AND 2033.3 FEET OR 0.385 MILES IN LENGTH CROSSING USA LAND IN SECTION 31, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY

**NOTE**

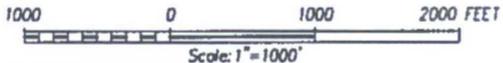
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I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY, PLAN AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH THIS IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON  
 DATE: 01/15/2015

**LEGEND**

© DENOTES FOUND CORNER AS NOTED

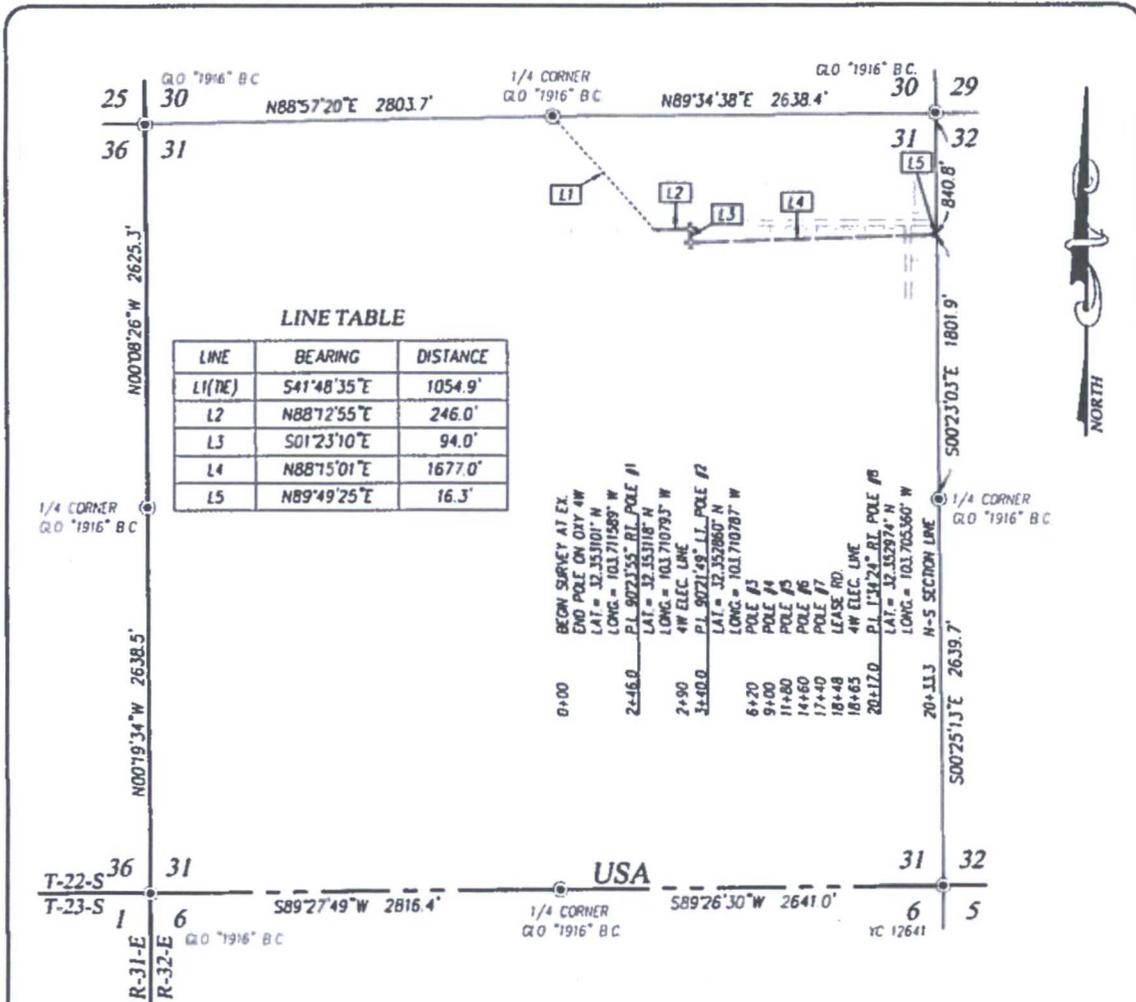


**OXY U.S.A. INC.**

SURVEY FOR AN ELECTRIC LINE TO THE RED TANK 33 FEDERAL #3H CROSSING SECTION 31, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M. LEA COUNTY, NEW MEXICO

PROVIDING SURVEYING SERVICES SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
 412 N. DAL PASO HOBBS, N.M. 88240  
 (575) 393-3117 www.jwsc.biz  
 TBPLSP 10021000

Survey Date: 12/5/14	CAD Date: 1/14/15	Drawn By: LSL
W.O. No.: 14111354	Rev.	Rel. W.O.:
		Sheet 1 of 1



**LINE TABLE**

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L2	N88°12'55"E	246.0'
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L4	N88°15'01"E	1677.0'
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0+00 BEGN SURVEY AT EX. END POLE ON OXY 4W  
 LAT = 32.353101° N  
 LONG = 103.711589° W  
 2+46.0 P.L. 8072155° RL POLE #1  
 LAT = 32.353101° N  
 LONG = 103.710793° W  
 2+90 4W ELEC. LINE  
 P.L. 8072159° RL POLE #2  
 LAT = 32.352860° N  
 LONG = 103.710787° W  
 6+20 POLE #3  
 9+00 POLE #4  
 11+80 POLE #5  
 14+60 POLE #6  
 17+40 POLE #7  
 18+48 LEASE RD.  
 18+65 4W ELEC. LINE  
 20+17.0 P.L. 84228° RL POLE #8  
 LAT = 32.352974° N  
 LONG = 103.705360° W  
 20+11.3 N-S SECTION LINE  
 20+11.3 2639.7'

**DESCRIPTION**

SURVEY OF A STRIP OF LAND 500 FEET WIDE AND 2033.3 FEET OR 0.385 MILES IN LENGTH CROSSING USA LAND IN SECTION 31, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY

**NOTE**

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 DATE: 01/15/2015

**LEGEND**

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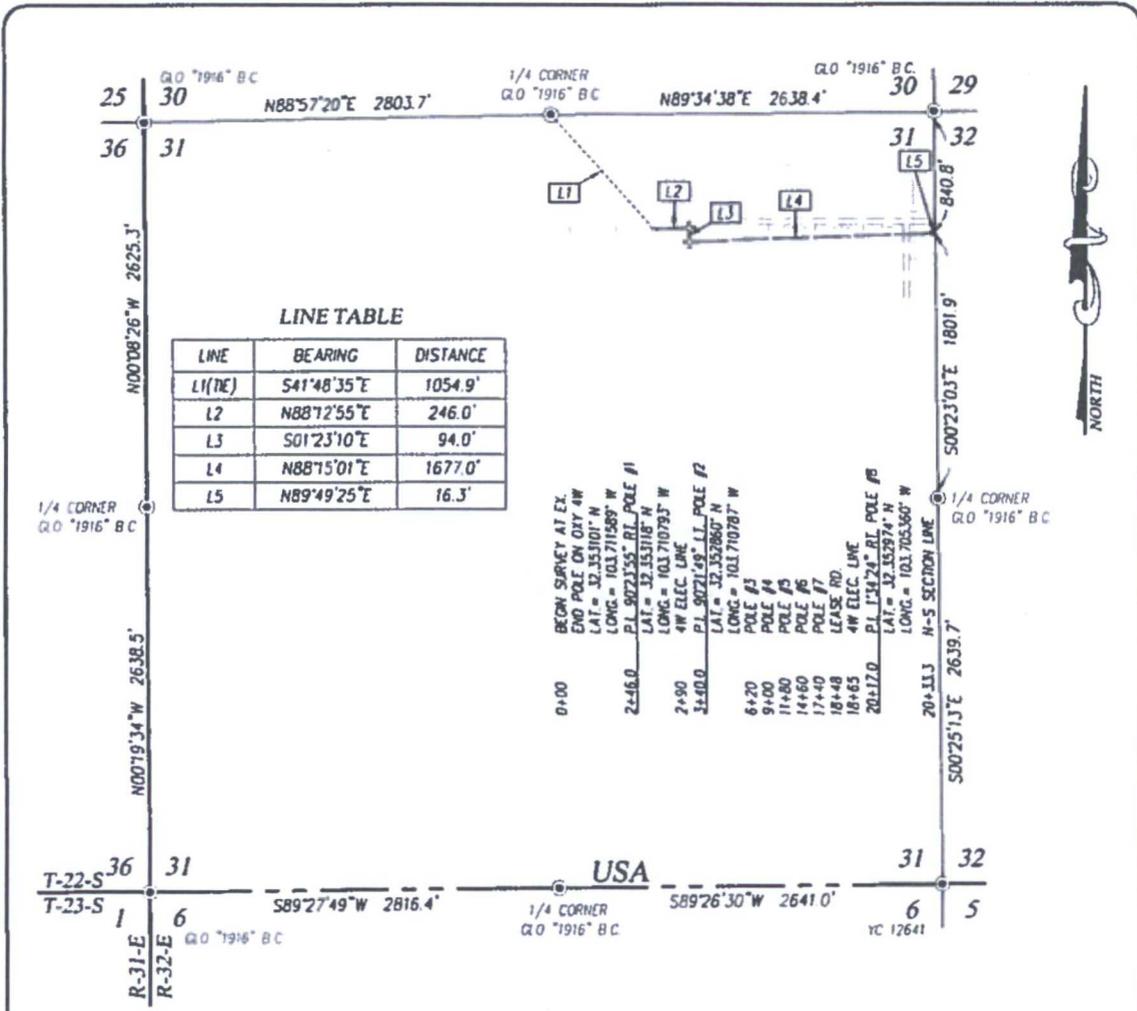
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L5	N89°49'25"E	16.3'

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 END POLE ON OXY 4W  
 LAT = 32.35101° N  
 LONG = 103.711589° W  
 P.L. 9072155' - P.L. POLE #1  
 LAT = 32.35118° N  
 LONG = 103.710793° W  
 4W ELEC. LINE  
 P.L. 9071159' - P.L. POLE #2  
 LAT = 32.352860° N  
 LONG = 103.710787° W  
 POLE #3  
 POLE #4  
 POLE #5  
 POLE #6  
 POLE #7  
 LEASE RD  
 18+48  
 18+65  
 20+11.0  
 P.L. 114720' - P.L. POLE #8  
 LAT = 32.352914° N  
 LONG = 103.705360° W  
 4W ELEC. LINE  
 N-S SECTION LINE  
 20+31.3  
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 2639.7'

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SURVEY OF A STRIP OF LAND 50.0 FEET WIDE AND 2033.3 FEET OR 0.385 MILES IN LENGTH CROSSING  
 USA LAND IN SECTION 31, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO,  
 AND BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY

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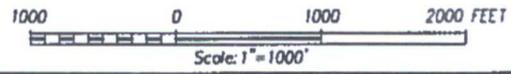
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RONALD J. EIDSON \_\_\_\_\_  
 DATE: 01/15/2015

**LEGEND**

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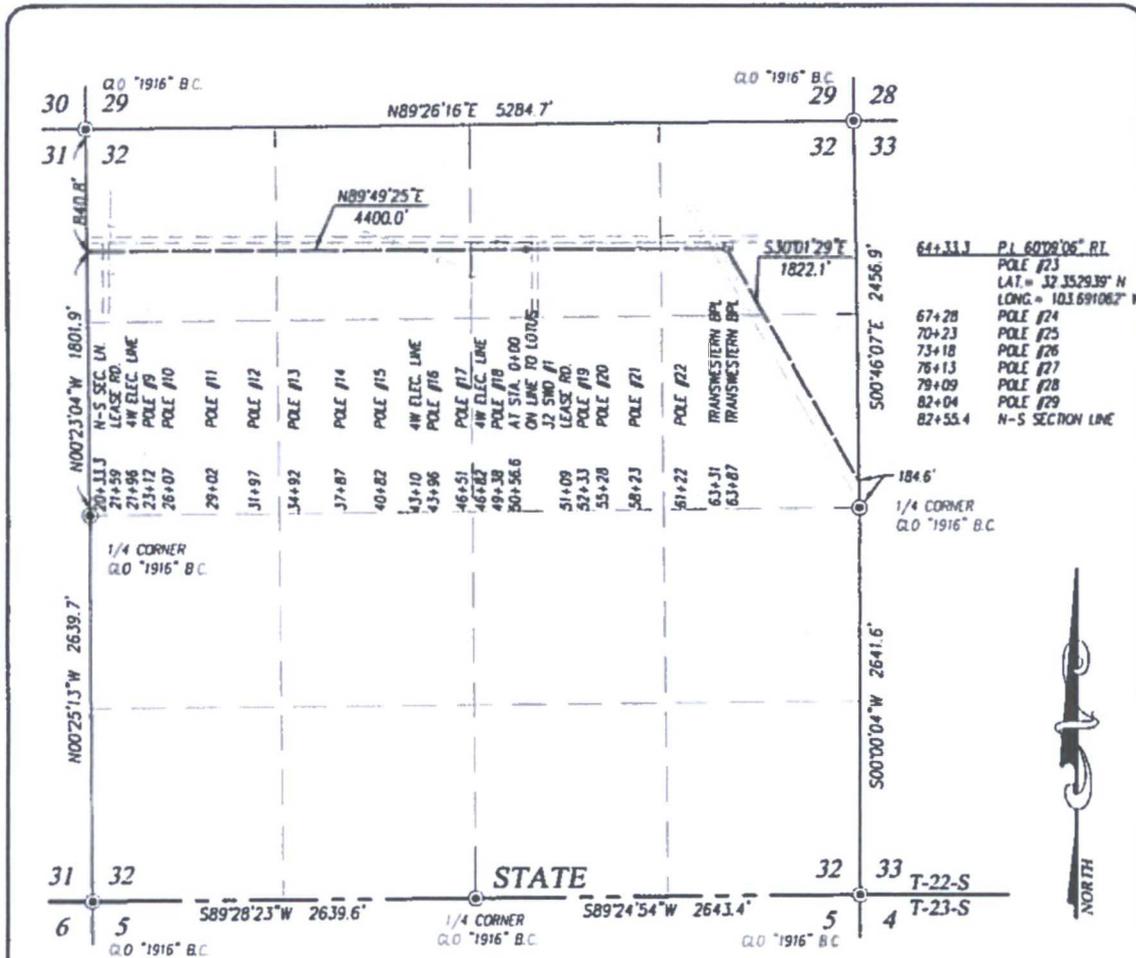


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**DESCRIPTION**

A STRIP OF LAND 30.0 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 32, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT ON THE WEST LINE, WHICH LIES 500°23'04"E 840.8 FEET FROM THE NORTHWEST CORNER; THEN N89°49'25"E 4400.0 FEET; THEN S30°01'29"E 1822.1 FEET TO A POINT IN THE EAST LINE, WHICH LIES N00°46'07"W 184.6 FEET FROM THE EAST QUARTER CORNER.

SAID STRIP OF LAND BEING 6222.1 FEET OR 377.10 RODS IN LENGTH, CONTAINING 4.285 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

- NW/4 NW/4 80.06 RODS OR 0.910 ACRES
- NE/4 NW/4 80.06 RODS OR 0.910 ACRES
- NW/4 NE/4 80.05 RODS OR 0.909 ACRES
- NE/4 NE/4 58.08 RODS OR 0.660 ACRES
- SE/4 NE/4 78.85 RODS OR 0.896 ACRES

**NOTE**

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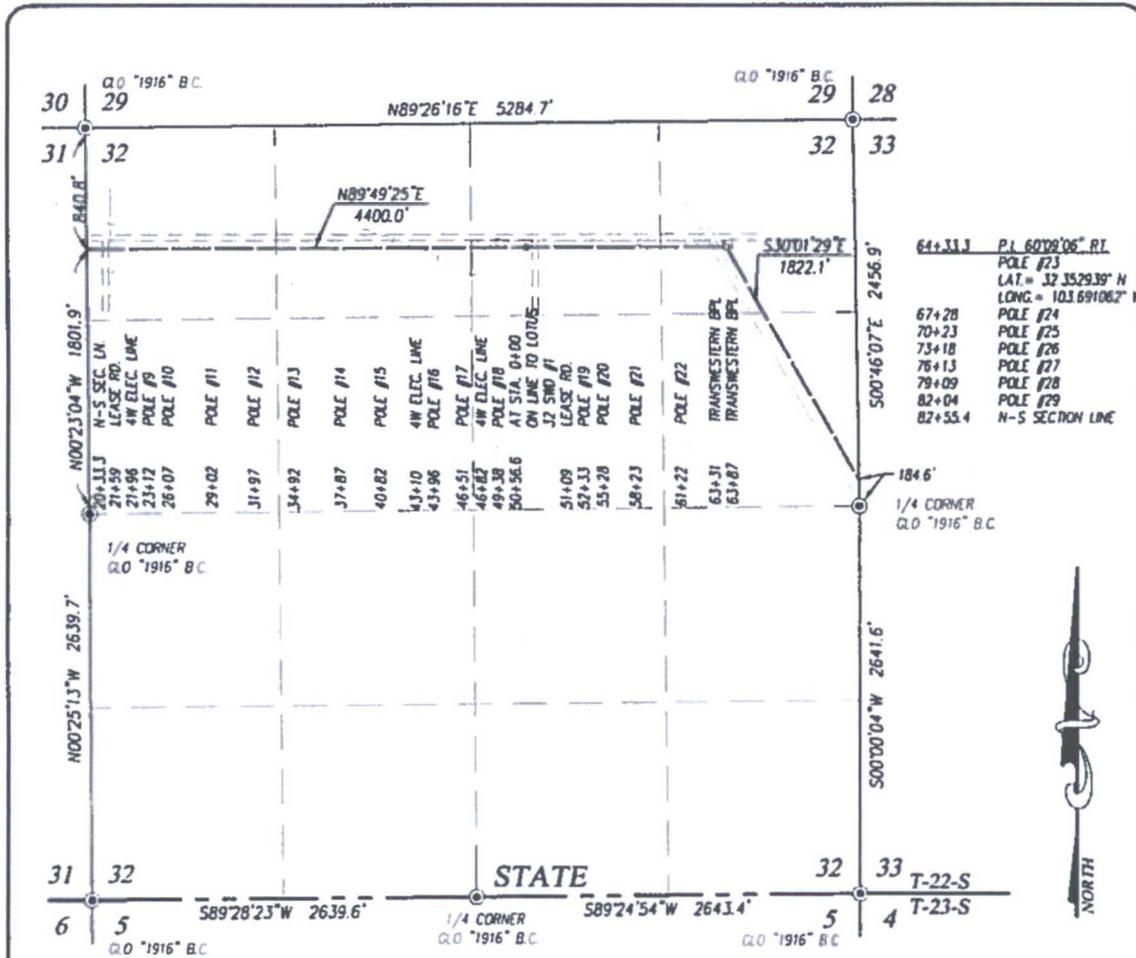


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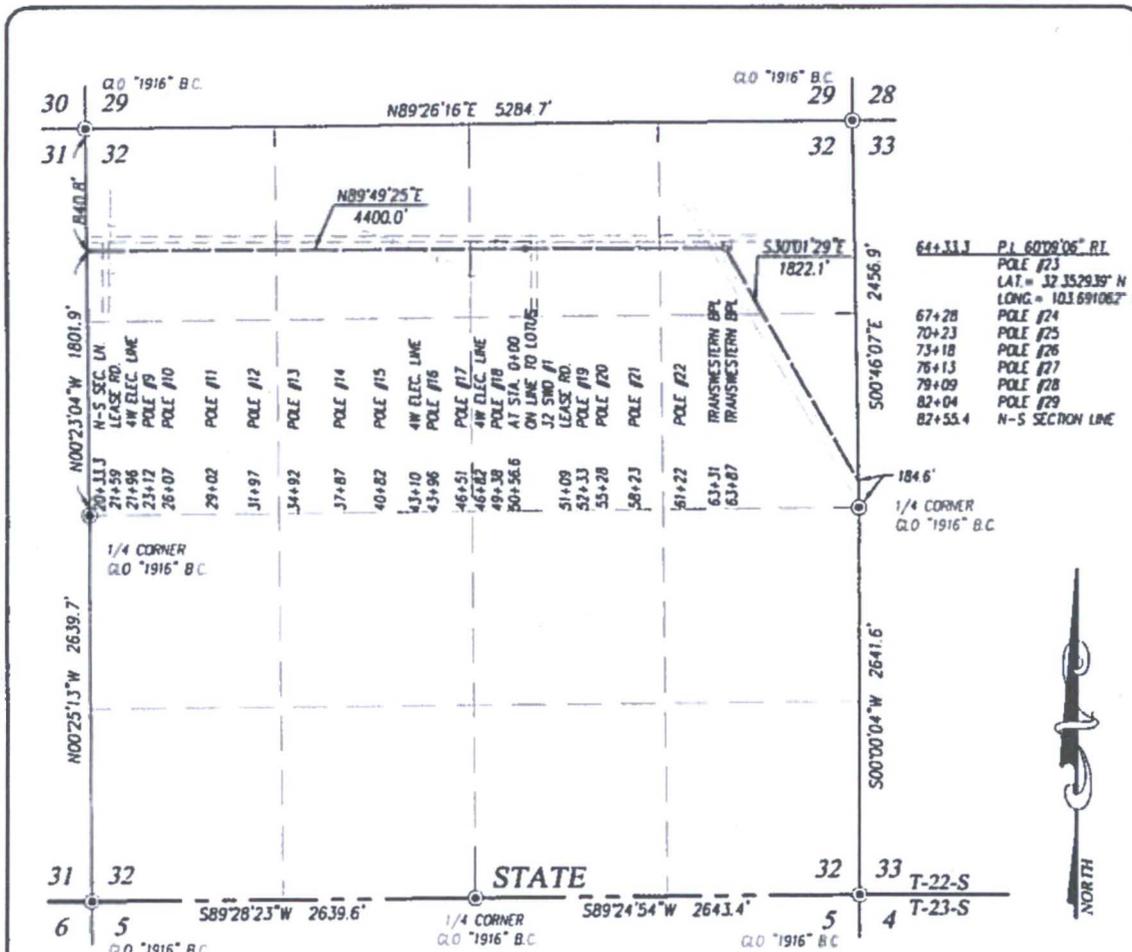


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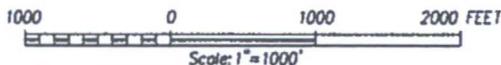
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RONALD J. EIDSON *Ronald J. Eidson*  
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**LEGEND**

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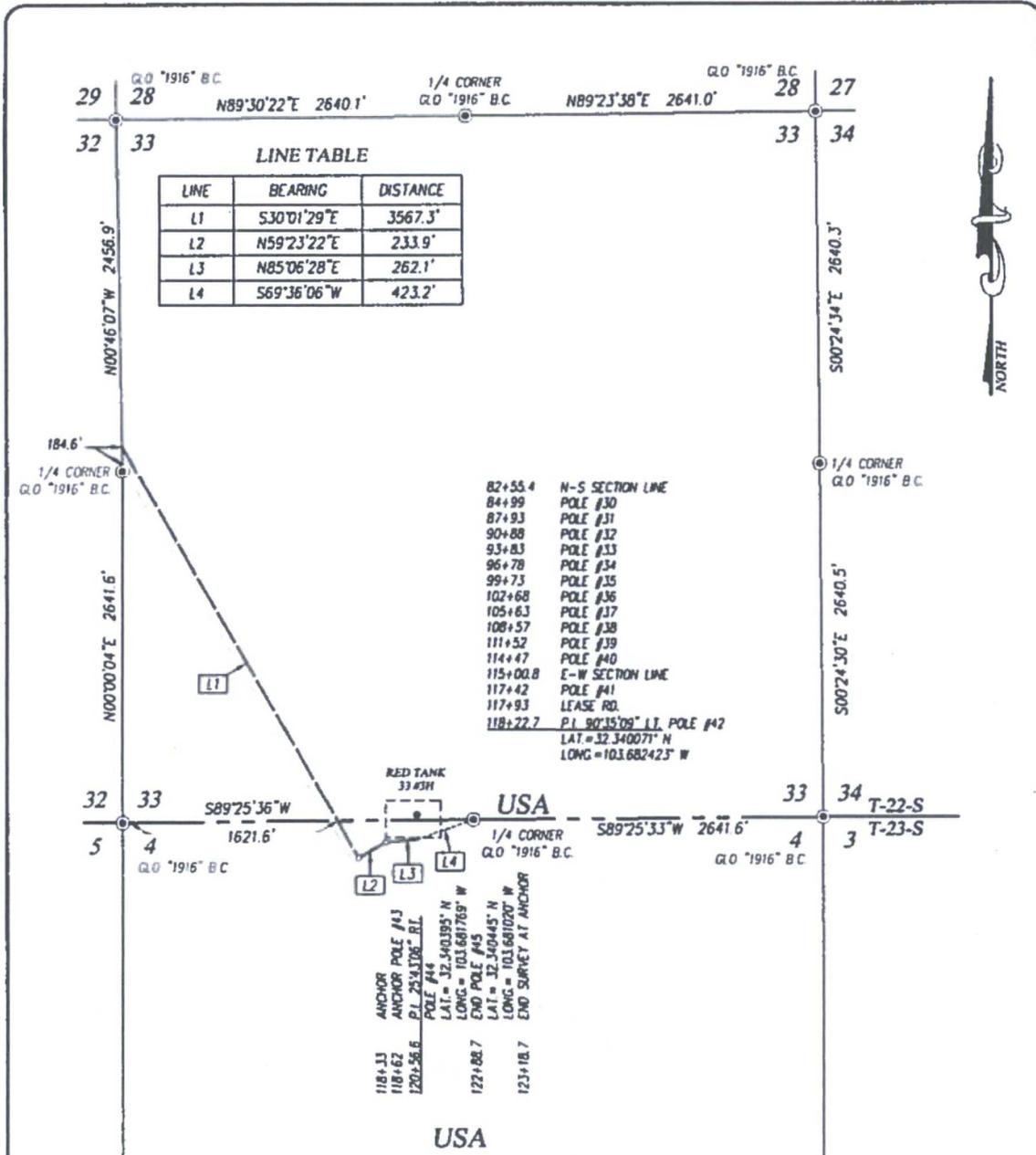
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 TBPLS# 10021000

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W.O. No.: 14111354	Rev.:	Rel. W.O.:





**LINE TABLE**

LINE	BEARING	DISTANCE
L1	S30°01'29"E	3567.3'
L2	N59°23'22"E	233.9'
L3	N85°06'28"E	262.1'
L4	S69°36'06"W	423.2'

- 82+55.4 N-S SECTION LINE
- 84+99 POLE #30
- 87+93 POLE #31
- 90+88 POLE #32
- 93+83 POLE #33
- 96+78 POLE #34
- 99+73 POLE #35
- 102+68 POLE #36
- 105+63 POLE #37
- 108+57 POLE #38
- 111+52 POLE #39
- 114+47 POLE #40
- 115+00.8 E-W SECTION LINE
- 117+42 POLE #41
- 117+93 LEASE RD.
- 118+22.7 P.I. 90°15'09" LT. POLE #42
- LAT. = 32.340077° N
- LONG. = 103.682423° W

- USA**
- 118+33 ANCHOR POLE #43
  - 118+62 ANCHOR POLE #43
  - 120+56.6 P.I. 25°10'06" RT.
  - 122+88.7 P.OLE #44
  - LAT. = 32.540195° N
  - LONG. = 103.681769° W
  - 123+18.7 P.OLE #45
  - LAT. = 32.540445° N
  - LONG. = 103.681020° W
  - END SURVEY AT ANCHOR

**DESCRIPTION**

SURVEY FOR A STRIP OF LAND 50.0 FEET WIDE AND 4063.3 FEET OR 0.770 MILES IN LENGTH CROSSING USA LAND IN SECTION 33, TOWNSHIP 22 SOUTH, RANGE 32 EAST, AND SECTION 4, TOWNSHIP 23 SOUTH, RANGE 32 EAST N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

**NOTE**

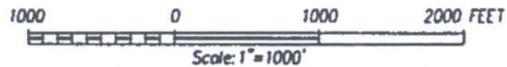
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAN AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE USUAL STANDARDS FOR SURVEYING IN NEW MEXICO AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON, *Ronald J. Eidson*  
 DATE: 01/15/2015

**LEGEND**

⊙ DENOTES FOUND CORNER AS NOTED

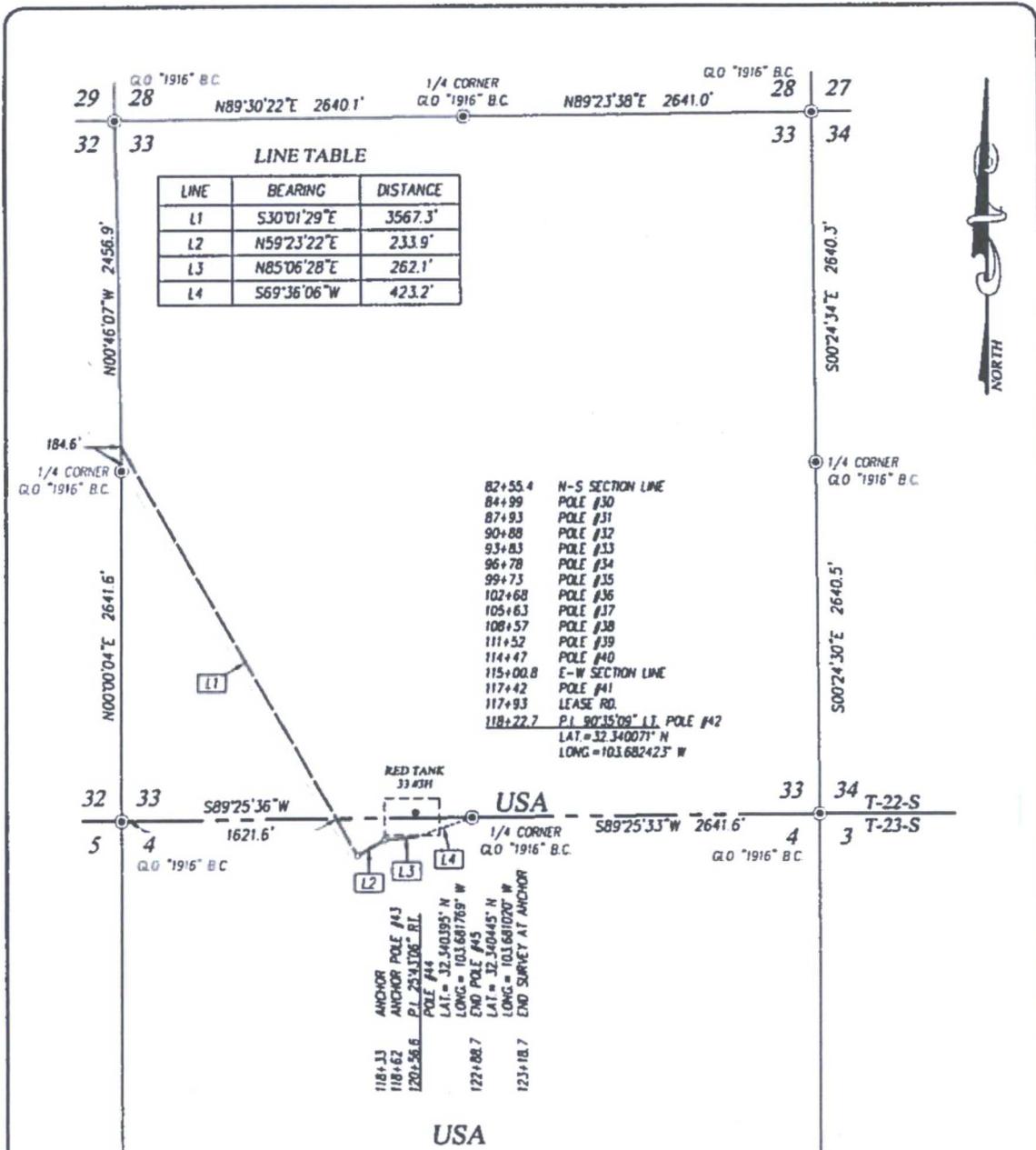


**OXY U.S.A. INC.**

**SURVEY FOR AN ELECTRIC LINE TO  
 THE RED TANK 33 FEDERAL #3H  
 CROSSING SECTION 33,  
 TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M.  
 LEA COUNTY, NEW MEXICO**

Survey Date: 12/5/14	CAD Date: 1/14/15	Drawn By: LSL
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PROVIDING SURVEYING SERVICES  
 SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
 412 N. DAL PASO HOBBS, N.M. 88240  
 (575) 393-3117 www.jwsc.biz  
 TBPLS# 10021000



**LINE TABLE**

LINE	BEARING	DISTANCE
L1	S30°D1'29"E	3567.3'
L2	N59°23'22"E	233.9'
L3	N85°06'28"E	262.1'
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- 115+00.8 E-W SECTION LINE
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- 117+93 LEASE RD.
- 118+22.7 P.I. 90°35'09" LT. POLE #42
- LAT. = 32.340071° N
- LONG. = 103.682423° W

RED TANK  
33#3H

USA

USA

ANCHOR POLE #43  
118+33  
118+62  
120+56.6

P.L. 253.176° RT.

POLE #44  
122+08.7

LAT. = 32.540195° N  
LONG. = 103.681769° W

END POLE #45  
123+18.7

LAT. = 32.540445° N  
LONG. = 103.681020° W

END SURVEY AT ANCHOR

**DESCRIPTION**

SURVEY FOR A STRIP OF LAND 30 FEET WIDE AND 4063.3 FEET OR 0.770 MILES IN LENGTH CROSSING USA LAND IN SECTION 33, TOWNSHIP 22 SOUTH, RANGE 32 EAST, AND SECTION 4, TOWNSHIP 23 SOUTH, RANGE 32 EAST N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 250 FEET LEFT AND 250 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

**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.

**LEGEND**

⊙ DENOTES FOUND CORNER AS NOTED



I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH THIS IS BASED WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE USUAL STANDARDS FOR SURVEYING IN NEW MEXICO AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON *Ronald J. Eidson*  
DATE: 01/15/2015

**OXY U.S.A. INC.**

SURVEY FOR AN ELECTRIC LINE TO  
THE RED TANK 33 FEDERAL #3H  
CROSSING SECTION 33,  
TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO

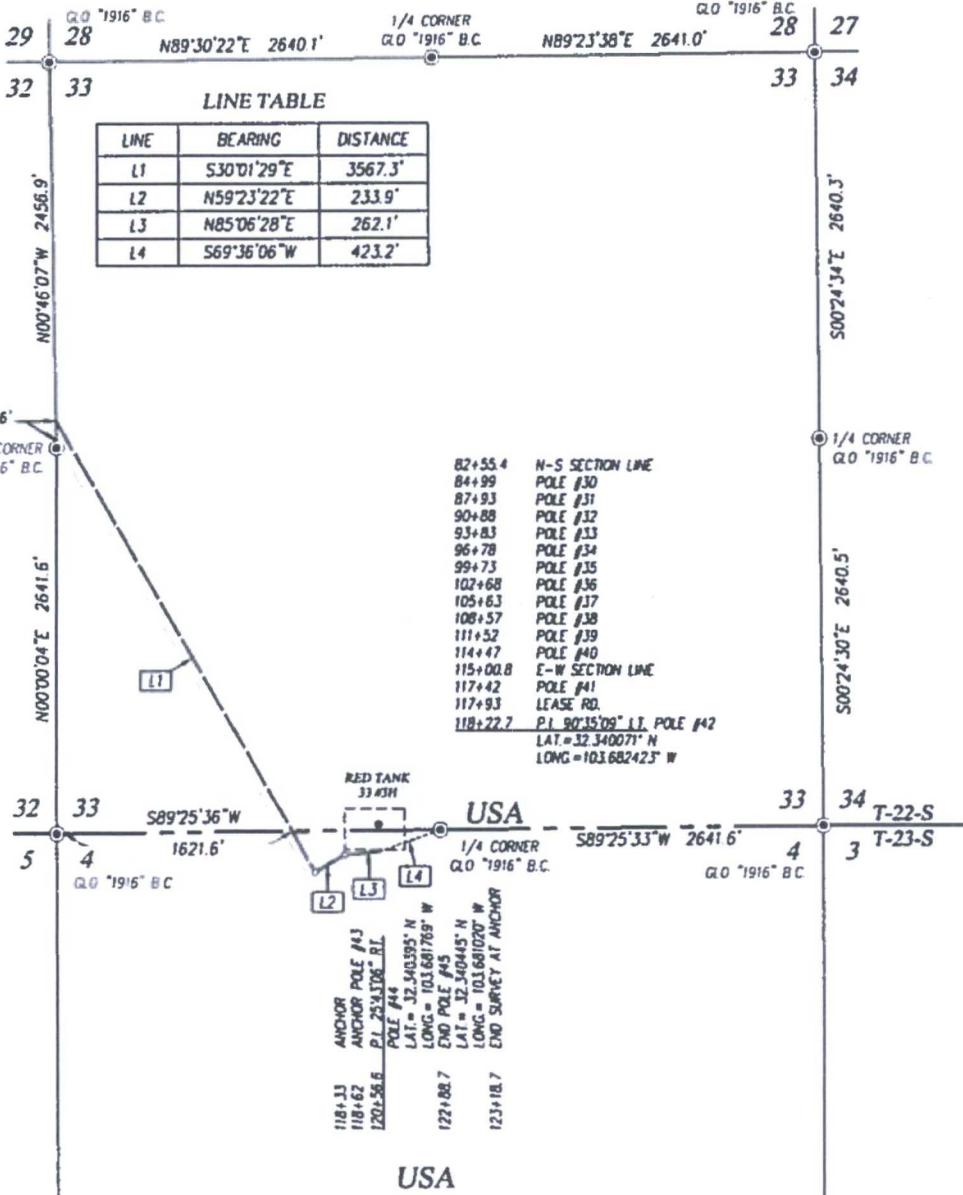
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(575) 393-3117 www.jwsc.biz  
TBPLS# 10021000

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**DESCRIPTION**

SURVEY FOR A STRIP OF LAND 500 FEET WIDE AND 4063.3 FEET OR 0.770 MILES IN LENGTH CROSSING USA LAND IN SECTION 33, TOWNSHIP 22 SOUTH, RANGE 32 EAST, AND SECTION 4, TOWNSHIP 23 SOUTH, RANGE 32 EAST N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 250 FEET LEFT AND 250 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

**NOTE**

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I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY WAS PLANNED AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH THIS IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE USUAL STANDARDS FOR SURVEYING IN NEW MEXICO AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON  
 DATE: 01/15/2015

**LEGEND**

⊙ DENOTES FOUND CORNER AS NOTED



**OXY U.S.A. INC.**

SURVEY FOR AN ELECTRIC LINE TO THE RED TANK 33 FEDERAL #3H CROSSING SECTION 33, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M. LEA COUNTY, NEW MEXICO

Survey Date: 12/5/14	CAD Date: 1/14/15	Drawn By: LSL
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Sheet 1 of 1

PROVIDING SURVEYING SERVICES SINCE 1946

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