

30-025-39844

## PUBLIC PROTECTION PLAN FOR HYDROGEN SULFIDE (H<sub>2</sub>S)

Assumed 100 ppm Radius of Exposure (ROE) = 3000'

**100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.**

### Emergency Procedures

In the event of a release of gas containing 100 ppm H<sub>2</sub>S, the first responder(s) must;

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to safely conduct efforts to control the release.
- Use the "buddy system" to ensure no injuries during the response operations.
- Take precautions to avoid personal injury during the operation.
- Contact operator and/or local officials to aid in operations. See list of phone numbers attached.
- Have received training in the
  - a. Detection of H<sub>2</sub>S
  - b. Measures for protection against H<sub>2</sub>S gas
  - c. Equipment used for protection and emergency response to H<sub>2</sub>S gas

### 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 New Mexico State Police may be involved. The New Mexico State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of gas.

### 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 = 1.0	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1.0	2 ppm	N/A	1000 ppm

### Contacting Authorities

Apache Corporation's personnel must liaison with local and state agencies to ensure 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 after the release. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Apache Corporation's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

(Note: Apache Corporation's Central Region Well Control Emergency Response Team should have already been notified. See Central Region Well Control Emergency Response Plan with drilling prognosis)

### PUBLIC PROTECTION PLAN FOR H<sub>2</sub>S - EMERGENCY CONTACTS

LOCATION	ENTITY	PHONE NUMBER
	Ambulance	911
Eunice, NM	Apache Corp	(575) 394-1503
Eunice, NM	Apache Corp	(575) 394-2743
Eunice, NM	Sheriff's Office	(575) 394-2020
Hobbs, NM	State Police	(575) 392-5588
Eunice, NM	Fire Department	(575) 394-3258
Hobbs, NM	Fire Department	(575) 397-9308
Hobbs, NM	Local Emergency Mgmt. Safety	(575) 397-9231
Hobbs, NM	NM Oil Conservation Division	(575) 393-6161
Carlsbad, NM	Bureau of Land Management	(575) 887-6544
Santa Fe, NM	NM Emergency Response Commission	(505) 476-9600 24 hr, (505) 827-9126
Washington, DC	Nat'l Emergency Response Center	(800) 424-8802
<b>Other Services</b>		
Well Control	GSM Engineering	(806) 358-6894
Snubbing	Cudd Pressure Control	(915) 699-0139
Pumping	BJ Services	(575) 392-5556

## **East Blinebry Drinkard Unit 104**

### **SURFACE USE PLAN OF OPERATIONS**

**Apache Corporation  
East Blinebry Drinkard Unit 104  
Section 13-T 21S, R 37E, UL J**

#### **1. Existing Roads:**

**Exhibit 'A'** is a well pad Topo map showing 150' offsets to the East, West, South and North. This topographic map demonstrates that the area of the well pad is essentially flat and will not require any significant cuts or fills. This map also shows the well pad proximity to existing electric lines, fences and pipe lines. No obstructions to location construction are indicated.

The size of the drilling pad will depend upon the rig selected to drill the well, but it is anticipate that the outer limits of the area to be disturbed will be no larger than 100' to the North, 125' to the East, 125' to the South, and 110' to the West.

**Exhibit 'B'** is a Topo/Location General Highway map of the Lea County, New Mexico area surrounding the proposed well pad. Directions to location are: From the intersection of St. Hwy #18 and Jones City Road (Co. Rd. E-38), go north on Hwy #18 approx. 0.4 miles, turn right and go east approx. 0.4, turn left and go north approx. 800 ft. This location is approx. 650 ft east.

**Exhibit 'C'** is the Vicinity Map, showing area townships and ranges. All existing roads will be maintained in a condition to or better than the current conditions. Any new roads will be constructed to BLM specifications.

#### **2. New or Reconstructed Access Roads:**

The existing lease roads will be used to the extent possible, approximately 494' feet on new road to the drilling pad will be required. See Exhibit 'B'.

#### **3. Locations of Existing Wells in a One-mile radius – Exhibit 'D'**

1. Water Wells – None known
2. Disposal wells – None known
3. Drilling wells – None known
4. Producing wells- As shown on Exhibit 'D'
5. Abandoned wells – As shown on Exhibit 'D'

#### **4. Location of Existing and / or Proposed Production Facilities**

If this well is a producer, Apache Corporation will furnish maps and / or plats showing on site facilities and any additional off site facilities if needed.

#### **5. Location and Type of Water Supply:**

Apache Corporation plans to drill the proposed well with fresh and brine water which will be transported by truck over the proposed and existing roads.

**6. Source of Construction Material:**

If possible, construction will be obtained from excavation of drill site. If additional material is needed, it will be purchased from a local source. Material will be transported over the access route as described above.

**7. Methods of Handling Waste Material:**

- A. Drill cuttings will be separated by a series of solids removal equipment and stored in steel containment pits and then hauled to a state- approved disposal facility.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from any living quarters will drain into holding tanks and be cleaned out periodically. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Drilling fluids will be contained in the steel pits in a closed circulating system. Fluids will be cleaned and reused. Water produced during testing will be contained in the steel pits and disposed of at a state approved disposal facility. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

**8. Ancillary Facilities:**

- A. No camps or airstrips to be constructed.

**9. Well Site Layout:**

- A. Exhibit 'E' shows a typical location and rig layout. No specific rig has been identified or contracted to drill this well at the time of this application.
- B. Mud pits in the closed circulating system will be steel pits and the cuttings will be stored in steel containment pits. NMOCD form C-144 has been submitted to the OCD for approval.
- C. Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility
- D. If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

**10. Plans for Restoration of Surface:**

Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be notified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the soil pile will be loaded over the disturbed area to the extent possible. Re-vegetation. Procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be re-contoured to match the existing terrain. Topsoil will be spread to the extent possible. Re-vegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required from production facilities.

## 11. Surface and Mineral Ownership:

The surface land is owned by **William O. Stephens, P.O. Box 115, Eunice, NM 88231**. The sub surface minerals are Federal, owned by USA, Department of Interior, managed by the Bureau of Land Management.

Leases Issued	NMLC 0 032096B
Operating Rights	Apache Corp 75.0%
	Chevron 25.0%

### Lease Acreage Description:

#### Township 21 South, Range 37 East, N.M.P.M.

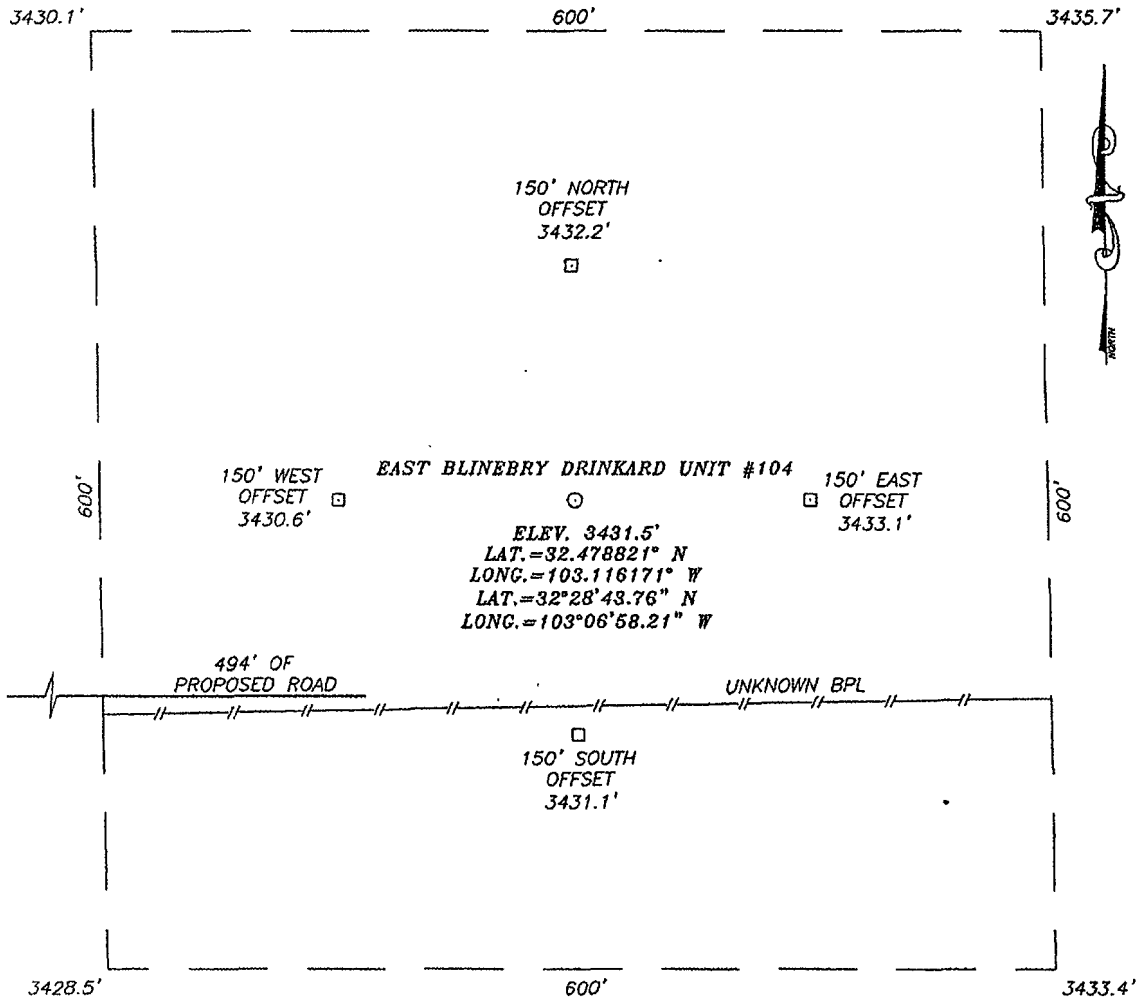
Section 11:	E/2, NW/4
Section 12:	N/2
Section 13:	S/2 N/2, S/2
Section 14:	E/2 E/2
Section 24:	E/2
Section 35:	NE/4

Total Lease Acreage:  
1,920.0

## 12. Other Information:

- A. Topography consists of a sloping plane with loose tan sands. Vegetation is mainly Yucca, Mesquite and Shin Oak.
- B. The well site is on the surface owned by William O. Stephens, P.O. Box 115, Eunice, NM 88231. The land is used mainly for cattle ranching, and oil and gas production. A surface use agreement is in place for the drilling of this well (surface damages \$10,000).
- C. Boone Archeological Services, LLC, Carlsbad, New Mexico will be conducting an archaeological survey of the proposed well which covers the drilling location, production facilities, and access road, including a corridor along said access road for power and flow lines. His report will be filed under separate cover.
- D. There are no known occupancies within 1 ½ miles of this location.

SECTION 13, TOWNSHIP 21 SOUTH, RANGE 37 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO

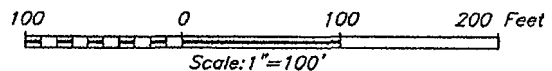


DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. #18 AND CO.  
RD. E-38 (JONES CITY) GO NORTH ON ST. HWY. #18  
APPROX. 0.4 MILES. TURN RIGHT AND GO EAST  
APPROX. 0.4 MILES. TURN LEFT AND GO NORTH  
APPROX. 800 FEET. THIS LOCATION IS APPROX. 650  
FEET EAST.



PROVIDING SURVEYING SERVICES  
SINCE 1946  
JOHN WEST SURVEYING COMPANY  
412 N. DAL PASO  
HOBBS, N.M. 88240  
(575) 393-3117



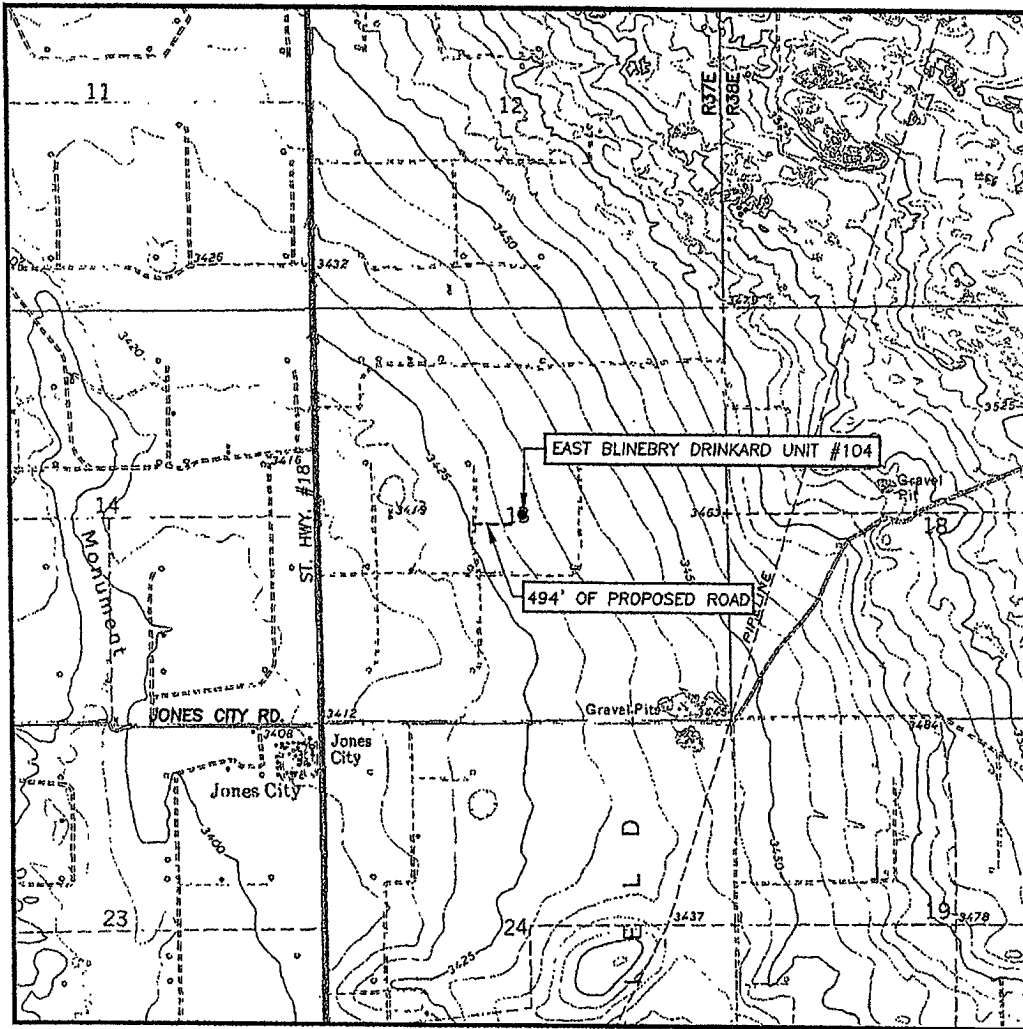
APACHE CORPORATION

EAST BLINEBRY DRINKARD UNIT #104 WELL  
LOCATED 2630 FROM THE SOUTH LINE  
AND 2630 FEET FROM THE EAST LINE OF SECTION 13,  
TOWNSHIP 21 SOUTH, RANGE 37 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.

Survey Date: 2/17/10	Sheet 1 of 1 Sheets
W.O. Number: 10.11.0226	Dr By: LA
Date: 2/24/10	10110226
	Scale: 1"=100'

EXHIBIT 'A'

### LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
EUNICE NE, N.M. - 5'

SEC. 13 TWP. 21-S RGE. 37-E

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

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 2630' FSL & 2630' FEL

ELEVATION 3431'

OPERATOR \_\_\_\_\_ APACHE CORPORATION

LEASE EAST BLINEBRY DRINKARD UNIT

U.S.G.S. TOPOGRAPHIC MAP

EUNICE NE, N.M.

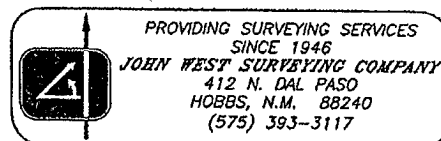
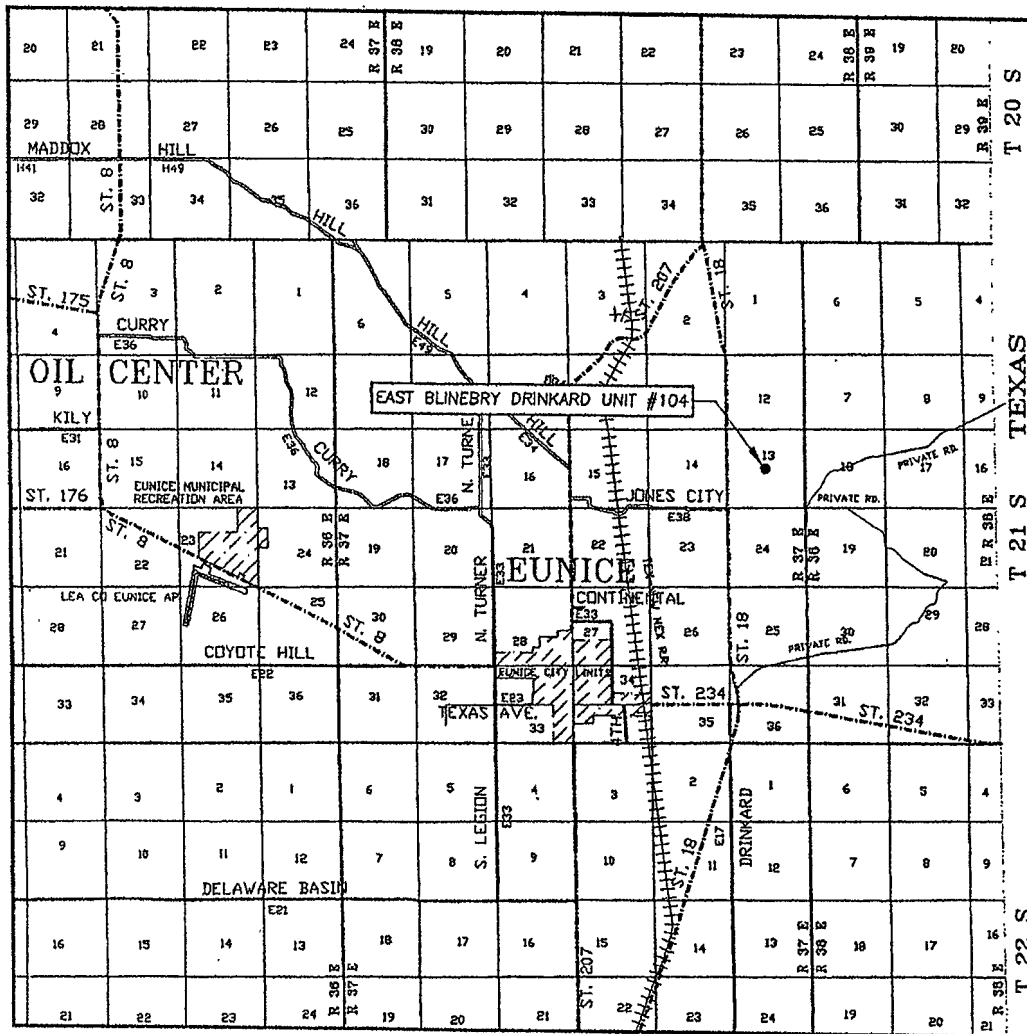


EXHIBIT 'B'

# VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 13 TWP. 21-S RGE. 37-E  
 SURVEY N.M.P.M.  
 COUNTY LEA STATE NEW MEXICO  
 DESCRIPTION 2630' FSL & 2630' FEL  
 ELEVATION 3431'  
 OPERATOR APACHE CORPORATION  
 LEASE EAST BLINEBRY DRINKARD UNIT

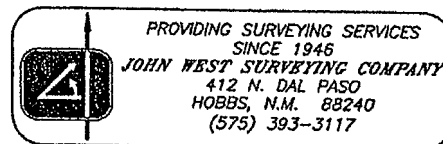


EXHIBIT 'C'





## Operator Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access roads proposed herein; that I am familiar with the conditions which presently exist; that I have knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed in conformity with this plan and the terms and conditions under which it is approved. I also certify that I, or APACHE CORPORATION am responsible for the operations conducted under this application. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date April 21, 2010

Name and Title Samuel Shoun – Drilling Engineer

