# AP - <u>013</u>

# STAGE 1 & 2 WORKPLANS

# DATE: July 12, 1999

# EOTT ENERGY Pipeline Limited Partnership

P.O. BOX 1660 5805 E. BUSINESS 20 MIDLAND, TEXAS 79702 (915) 682-3761

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|     |     | JUL  | I   | 6   | 1999 | )    |             |
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BY CERTIFIED MAIL 607 RETURN RECEIPT NO. Z 425 534 612

July 12, 1999

State of New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505 Attn: William Olson

#### **RE:** TNM-97-18 GROUNDWATER ABATEMENT PLAN (AP-13)

Dear Mr. Olson:

Attached please find EOTT Energy Pipeline Limited Partnership's (EOTT) proposed Groundwater Abatement Plan for TNM-97-18. I have also attached a draft Notice of Publication.

Within 15 days after the OCD determines that the plan is administratively complete, the Notice of Publication will be issued in the Hobbs News Sun and the Albuquerque Journal. At that time written notice of the plan will be provided to the landowners within 1 mile of the site, the county commission, and "those persons, as identified by the Director, who have requested notification". An Affidavit of Mailing will be sent along with the certified returned receipts from the notifications that require certified mailing.

I hope all meets with your approval but if you have any questions, please don't hesitate to call me at 915/684-3467.

Sincerely,

Lennah Frost Sr. Environmental Engineer

cc: Al Hugh - Environmental File NMOCD Hobbs District Office

# EOTT ENERGY Pipeline Limited Partnership

## PROPOSED STAGE 1 ABATEMENT PLAN FOR

**TNM-97-18** 

#### INTRODUCTION

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EOTT Energy Pipeline Limited Partnership has recently acquired assets from Texas-New Mexico Pipe Line Company (TNMPL). Along with this acquisition EOTT has also accepted responsibility for cleanup on numerous TNMPL crude oil release sites. On September 9, 1997 TNMPL discovered a crude oil release had occurred on its pipeline located in Unit B, Section 28, T-20-S, R-37-E, Lea County, New Mexico. The spill was reported immediately to the New Mexico Oil Conservation Division (NMOCD) in Hobbs, New Mexico. The property is owned by the Millard Deck Estate. This property can best be described as open range. The location is referred to as TNM 97-18. The site location is provided in FIG 1.

TNMPL personnel determined that approximately 83 barrels of crude oil was released. The leak was clamped off and no attempt was made by TNMPL to recover the free oil. The release occured as a result of internal corrosion. TNMPL contracted with KEI Environmental to conduct a Subsurface Investigation at the site. From November, 1998 until March, 1999, KEI installed several monitor wells at the site and completed their subsurface investigation which was submitted to the NMOCD in March, 1999.

#### **SITE HISTORY**

A release of approximately 83 barrels of light crude oil occurred on September 9, 1997. Of the 83 barrels released, none were recovered. Prior to the start of the subsurface investigation, minor excavation of impacted soils along the pipeline had taken place to facilitate pipeline repairs at the leak site. The site consisted of three open excavations. Approximately 799 cubic yards of soil were stockpiled along side the pipeline.

During the subsurface investigation, 3 monitoring wells (designated MW-1 through MW-3) were installed utilizing air rotary drilling. Soil samples were collected at selected intervals from the ground surface to the bottom of each boring. The soils were classified in the field, soil samples were field screened, and selected samples were prepared ans shipped to the laboratory for analysis. The results of the laboratory analysis are presented in TABLE I and TABLE II, attached. Details of the soil investigation are included in the Subsurface Investigation Report on file with the NMOCD in both the Hobbs District Office and the Santa Fe Office. Please refer to that report for detailed information about soils.

The monitoring well locations were surveyed by a Professional Land Surveyor registered in the State of New Mexico. The locations of the monitoring wells are presented in FIG. 2, attached.

The depth to groundwater measured in the monitoring wells on June 1, 1999, ranged from 28.20 to 29.90 feet bgs. Groundwater elevations indicate an approximate gradient of 0.0008 ft/ft to the southeast. Ground water contours are presented in FIG. 7, attached.

All three monitor wells were gauged on June 1, 1999. Phase-separate hydrocarbon (PSH) was not observed in any of the monitoring wells. See GROUNDWATER GAUGING SUMMARY for

MW-1, MW-2 and MW-3, attached. Benzene and total BTEX were non-detectable in monitor well MW-1. Wells MW-2 and MW-3 showed slight Benzene and BTEX but were well below the closure limits of 10 mg/kg and 50 mg/kg, respectively.

#### **GEOLOGY AND HYDROGEOLOGY**

The geology of the Southern High Plains of Texas and Eastern New Mexico consists of the Tertiary Ogallala Formation which is overlain by Quaternary eolian, fluvial, and lacustrine sediments. The Quaternary deposits, ranging in age from 1.4 millions years ago until recent, extends to a maximum depth of 80 feet bgs in the region. The Tertiary Ogallala Formation contains coarse fluvial conglomerates, sandstone, and fine-grain eolian siltstone and clay. The depositional environment of the Ogallala Formation and overlying Quaternary deposits produce overlapping, humid type alluvial fans. Exposed along dry riverbeds in the region, the Quaternary alluvium deposits consist of sands, silts, and gravels. Locally, a resistant calcitic layer known as the caprock overlies the Oglalla formation. The caprock is exposed along the northwestern portion of Lea County.

The Ogallala aquifer is the primary drinking water/irrigation source for the Southern High Plains of Texas and Eastern New Mexico. The Ogallala aquifer occurs within the Tertiary Ogallala Formation which is composed of terrigenous sediments such as sands, gravels, and finer sediments. The aquifer is covered by Quaternary deposits and unconformably overlies Cretaceous, Triassic, and Permian rocks. Water table elevations approximately parallel regional land surface (dips to the south/southeast). Generally, the hydraulic conductivity (K) for the aquifer is < or = to 200 gal/day/ft2 with a porosity of 43% and a specific yield of 23% for fine-grain sands.

#### Water Well Inventory

A water well search for the site yielded 5 water wells located within a one-mile radius of the property (see attachment - Water Well Search.) Two wells (3, 5) are located down gradient and within a 1 mile radius of the leaksite. Groundwater depths in these wells (as of 1971) were approximately 28 to 38 feet bgs.

#### Surface Water and Streams

No surface water bodies or streams are located within a 1-mile radius of the release site.

#### **STAGE 1 ABATEMENT WORKPLAN**

The following Stage 1 Abatement Workplan is based on the results of the assessment activities performed to date. This plan is actually a workplan for bioremediation of the leaksite. EOTT has contracted Environmental Technology Group, Inc. (ETGI) in Midland, Texas to remediate the site. Attached is their Workplan for Bioremediation of Site 97-18 Location along with detailed procedures to be utilized during this project.





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### **SCHEDULE**

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Field activities will be scheduled following written approval of the Stage 1 Abatement Workplan by the NMOCD. Field activities will be initiated immediately. The attached plan details the proposed schedule and completion time for the project.

## TABLE I

## SUMMARY OF SOIL RESULTS - BTEX AND TPH TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-18 LEA COUNTY, NEW MEXICO

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | DEPTH<br>(feet) | BENZENE<br>(mg/kg) | TOLUENE<br>(mg/kg) | ETHYL-<br>BÉNZENE<br>(mg/kg) | XYLENES<br>(mg/kg) | TOTAL<br>BTEX<br>(mg/kg) | TPH<br>(mg/kg) |
|--------------------|----------------|-----------------|--------------------|--------------------|------------------------------|--------------------|--------------------------|----------------|
|                    |                |                 |                    |                    |                              |                    |                          |                |
| SB-1               | 11/3/98        | 0 - 2           | 0.70               | 0.49               | 3.38                         | 12.62              | 17.19                    | 4,320          |
|                    | 11/3/98        | 4 - 6           | 4.20               | 5.94               | 9.93                         | 17.55              | 37.62                    | 1,550          |
|                    | 11/3/98        | 20 - 22         | 1.35               | 4.05               | 8.15                         | 15.71              | 29.26                    | 709            |
|                    |                |                 |                    |                    |                              |                    |                          |                |
| MW-1               | 11/3/98        | 0 - 2           | ND                 | ND                 | ND                           | ND                 | ND                       | 556            |
|                    | 11/3/98        | 2 - 4           | ND                 | ND                 | ND                           | ND                 | ND                       | 15.2           |
|                    | 11/3/98        | 15 - 17         | ND                 | ND                 | ND                           | ND                 | ND                       | 198            |
|                    |                |                 |                    |                    |                              |                    |                          |                |
| MW-2               | 11/3/98        | 0 - 2           | ND                 | ND                 | ND                           | ND                 | ND                       | 267            |
|                    | 11/3/98        | 25 - 27         | 0.14               | ND                 | 0.68                         | 2.01               | 2.83                     | 26.6           |
|                    |                |                 |                    |                    |                              |                    |                          |                |
| MW-3               | 11/3/98        | 0 - 2           | ND                 | ND                 | ND                           | ND                 | ND                       | 14.2           |
|                    | 11/3/98        | 20 - 22         | ND                 | ND                 | ND                           | ND                 | ND                       | ND             |
|                    | 11/3/98        | 25 - 27         | ND                 | ND                 | ND                           | ND                 | ND                       | 281            |
|                    |                |                 |                    |                    |                              |                    |                          |                |

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#### TABLE II

### SUMMARY OF SOIL RESULTS - SPLP TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-18 LEA COUNTY, NEW MEXICO

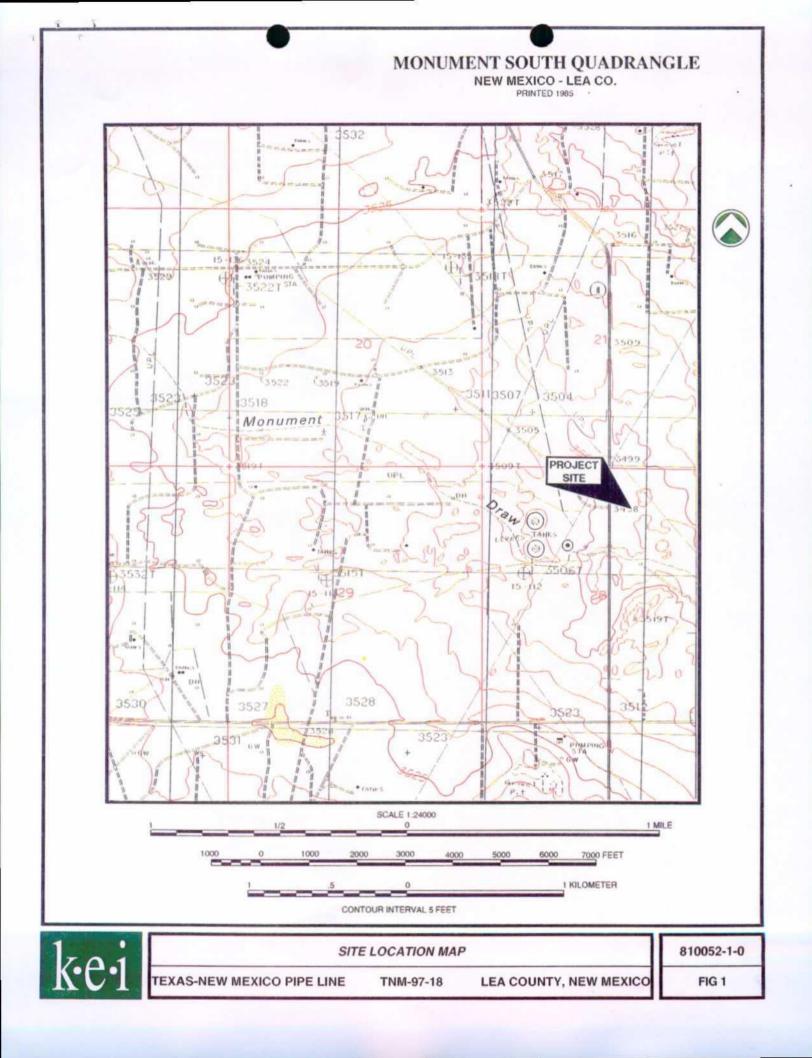
| PARAMETER          | CONCENTRATION (mg/l) |
|--------------------|----------------------|
|                    |                      |
| SVOC               |                      |
| All Constituents   | ND                   |
|                    |                      |
| VOC                |                      |
| 1,2-Dichloroethane | 0.110                |
| o-Xylene           | 0.045                |
| ТРН                | 10.8 ppm             |

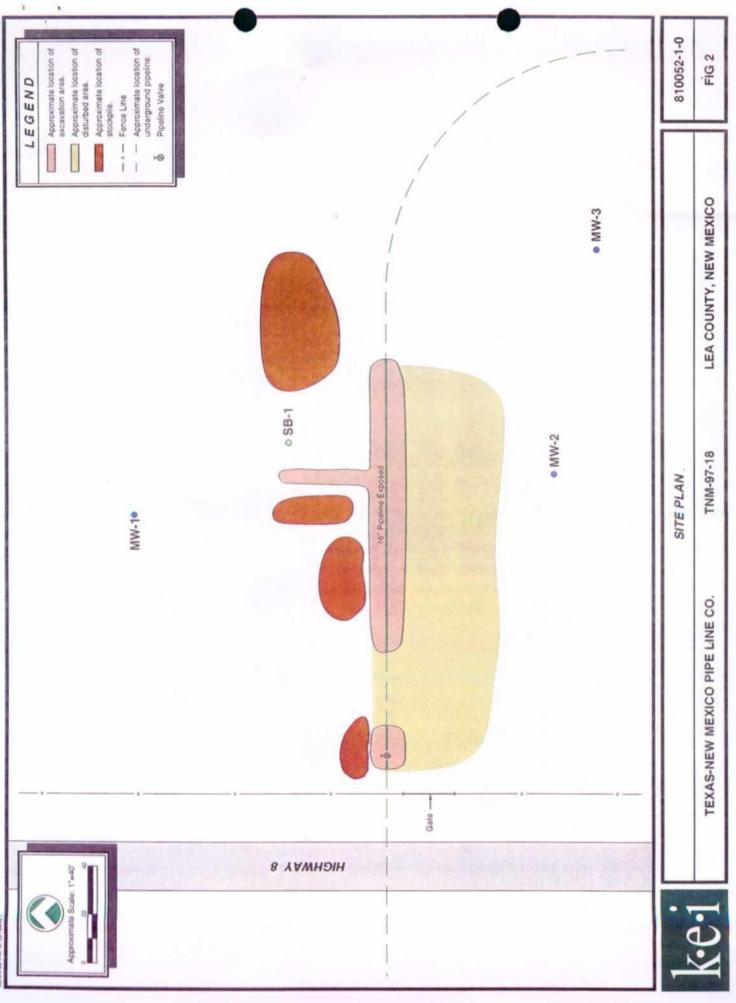
#### NOTES:

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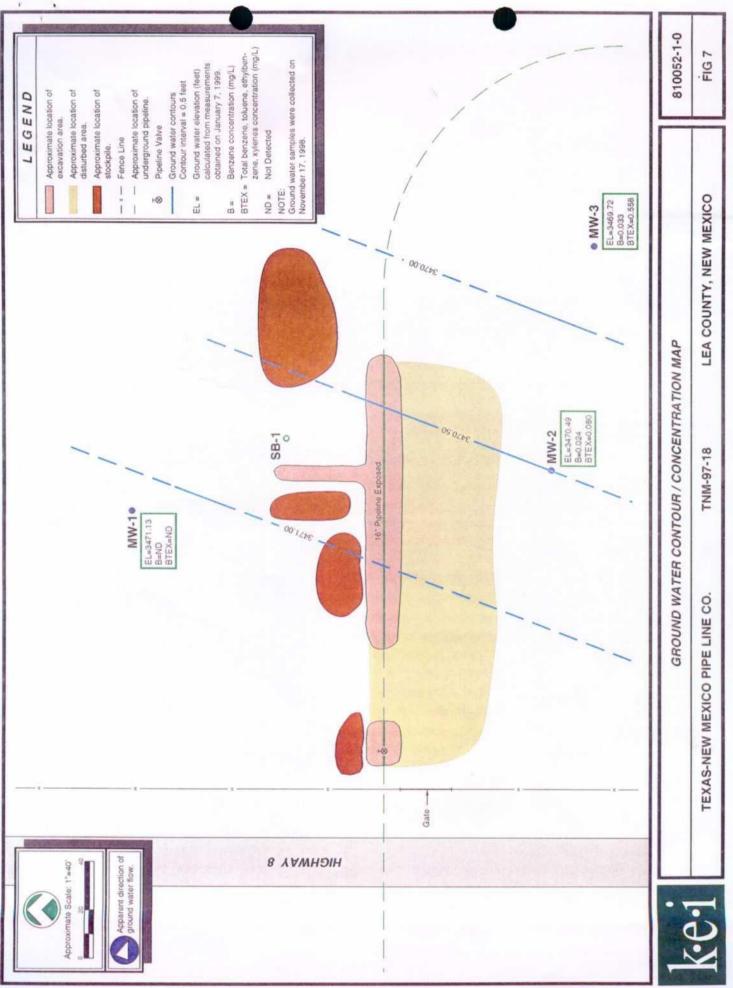
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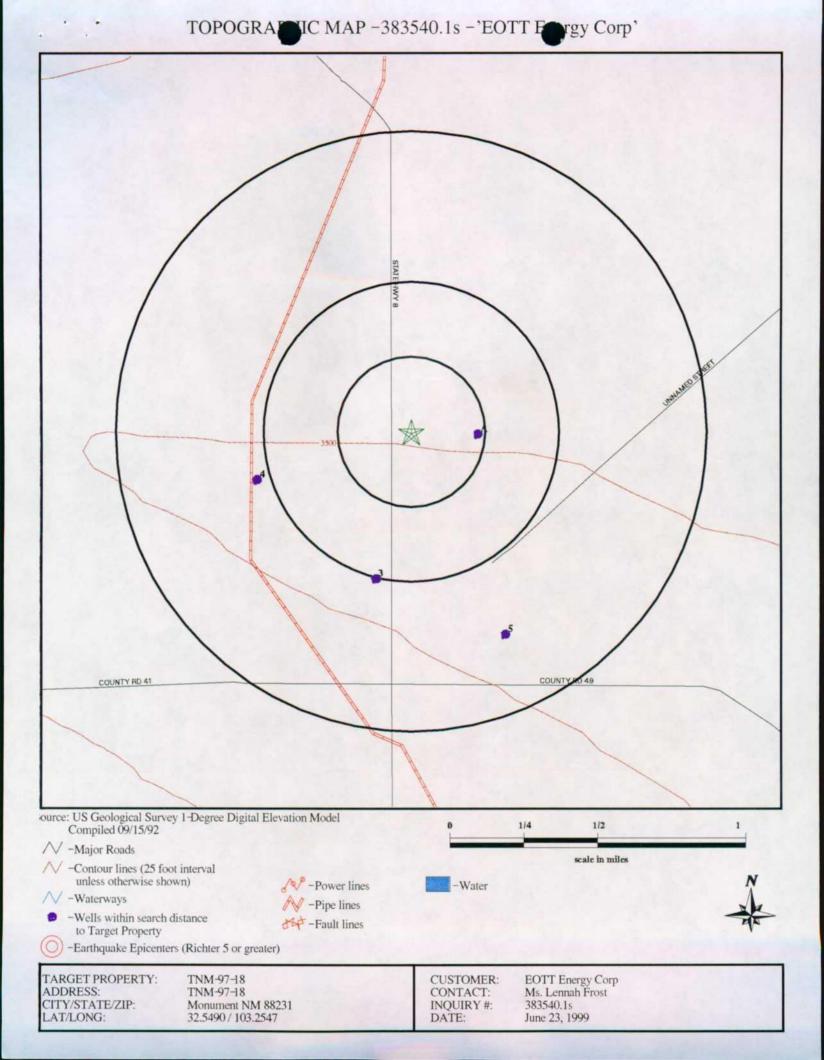
- 1. Sample was collected from soil boring SB-1 from 0 to 2 feet on 11/03/98.
- 2. Those constituents not listed above were ND.





DIST NUMBER OF STREET





# GROUND WATER GAUGING SUMMARY

## TNM-97-18 MONUMENT, NEW MEXICO MONITORING WELL MW-1

| DATE     | DEPTH TO<br>WATER<br>FROM PVC | OF W    | ATION<br>/ATER<br>æt) | PSH<br>THICKNESS |
|----------|-------------------------------|---------|-----------------------|------------------|
| MEASURED | (feet)                        | Actual  | Corrected             | (feet)           |
| 11/17/98 | 29.23                         | 3470.94 |                       |                  |
| 01/07/99 | 29.04                         | 3471.13 |                       |                  |
| 02/03/99 | 28.96                         | 3471.21 |                       |                  |
| 03/09/99 | 29.05                         | 3471.12 |                       |                  |
| 04/15/99 | 28.96                         | 3471.21 |                       |                  |
| 05/13/99 | 28.48                         | 3471.69 |                       |                  |
| 06/01/99 | 28.35                         | 3471.82 |                       |                  |

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# GROUND WATER GAUGING SUMMARY

## TNM-97-18 MONUMENT, NEW MEXICO MONITORING WELL MW-2

| DATE     | DEPTH TO<br>WATER<br>FROM PVC | OF W    | ATION<br>/ATER<br>æt) | PSH<br>THICKNESS |
|----------|-------------------------------|---------|-----------------------|------------------|
| MEASURED | (feet)                        | Actual  | Corrected             | (feet)           |
| 11/17/98 | 28.87                         | 3470.32 |                       |                  |
| 01/07/99 | 28.70                         | 3470.49 |                       |                  |
| 02/03/99 | 28.72                         | 3470.47 |                       |                  |
| 03/09/99 | 28.82                         | 3470.37 |                       |                  |
| 04/15/99 | 28.70                         | 3470.49 |                       |                  |
| 05/13/99 | 28.34                         | 3470.85 |                       |                  |
| 06/01/99 | 28.20                         | 3470.99 |                       |                  |

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# GROUND WATER GAUGING SUMMARY

## TNM-97-18 MONUMENT, NEW MEXICO MONITORING WELL MW-3

| DATE     | DEPTH TO<br>WATER<br>FROM PVC | OF W    | ATION<br>/ATER<br>œt) | PSH<br>THICKNESS |
|----------|-------------------------------|---------|-----------------------|------------------|
| MEASURED | (feet)                        | Actual  | Corrected             | (feet)           |
| 11/17/98 | 30.56                         | 3469.49 |                       |                  |
| 01/07/99 | 30.33                         | 3469.72 |                       |                  |
| 02/03/99 | 30.36                         | 3469.69 |                       |                  |
| 03/09/99 | 30.37                         | 3469.68 |                       |                  |
| 04/15/99 | 30.28                         | 3469.77 |                       |                  |
| 05/13/99 | 29.99                         | 3470.06 |                       |                  |
| 06/01/99 | 29.90                         | 3470.15 |                       |                  |

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## ERTIFICATE OF ANALYSIS SUCARY -91940

## KEI Consultants, Ltd.

Project Name: EOTT

Project ID: 810052-1-0

Project Manager: Stan Grover Project Location: Lea County, New Mexico Date Received in Lab: May 14, 1999 09:45

Date Report Faxed: May 20, 1999 XENCO contact : Carlos Castro/Debbie Simmons

Lab ID: 91940 001 91940 002 91940 003 Field ID: **MW-1** MW-2 MW-3 Depth: Analysis Requested Matrix: Liquid Liquid Liquid Sampled: 05/13/99 10:30 05/13/99 09:45 05/13/99 10:05 BTEX Analyzed: 05/18/99 05/18/99 05/19/99 R.L. R.L. R.L. Units: ppm ppm EPA 8021B ppm Benzene < 0.001 (0.001) 0.475 (0.005) 0.276 (0.001) < 0.001 (0.001) 0.102 (0.005) < 0.001 (0.001) Toluene 0.279 (0.005) 0.173 (0.001) Ethylbenzene < 0.001 (0.001) m,p-Xylene < 0.002 (0.002) 0.146 (0.010) 0.043 (0.002) < 0.001 (0.001) 0.015 (0.005) < 0.001 (0.001) o-Xylene Total BTEX N.D. 1.017 0.492

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Consultants, Ltd..

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

 $\overline{\mathbf{x}}$ temons. II QA/QC Manager

Houston - Dallas - San Antonio

## **B**<sup>®</sup> Environmental Data Resources, Inc.

an\_edr~company

# The EDR-GeoCheck<sup>®</sup> Report

TNM-97-18 TNM-97-18 Monument, NM 88231

Inquiry Number: 383540.1s

June 23, 1999

# *The* Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802 Internet: www.edrnet.com

## THE EDR GEOCHECK™ REPORT

The EDR GeoCheck<sup>™</sup> Report is a screening tool designed to assist in the hydrogeological assessment of a particular geographic area based upon publicly available information.

The EDR GeoCheck<sup>™</sup> Report consists of the following information within a customer specified radius of the target property.

- topography (25 foot intervals unless otherwise shown)
- major roads
- surface water bodies
- railroad tracks
- flood plains (available in selected counties)
- wetlands (available in selected counties)
- wells including depth to water table and water level variability (in federal and selected state databases)
- public water supply wells (including violations information)
- geologic data
- radon data.

The EDR GeoCheck<sup>™</sup> Report is a general area study. It may or may not be accurate at any specific location.

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*Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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#### GEOLOGIC AGE IDENTIFICATION<sup>†</sup>

| Geologic Code: | Qp          |
|----------------|-------------|
| Era:           | Cenozoic    |
| System:        | Quaternary  |
| Series:        | Pleistocene |
|                |             |

#### **ROCK STRATIGRAPHIC UNIT<sup>†</sup>**

Category:

Stratifed Sequence

#### SEARCH DISTANCE RADIUS INFORMATION

| DATABASE         | SEARCH DISTANCE (miles) |
|------------------|-------------------------|
| Federal Database | 1.000                   |
| State Database   | 1.000                   |
| PWS Database     | 1.000                   |

#### FEDERAL DATABASE WELL INFORMATION

| MAP<br>ID | WELL<br>ID      | LOCATION<br>FROM TP |
|-----------|-----------------|---------------------|
| A1        | 323256103150301 | 1/8 - 1/4 Mile East |
| A2        | 323255103150301 | 1/8 - 1/4 Mile East |
| 3         | 323231103152401 | 1/2 - 1 Mile SSW    |
| 4         | 323248103154901 | 1/2 - 1 Mile WSW    |
| 5         | 323221103145701 | 1/2 - 1 Mile SSE    |

#### STATE DATABASE WELL INFORMATION

| MAP | WELL | LOCATION |
|-----|------|----------|
| ID  | ID   | FROM TP  |
|     |      |          |

NO WELLS FOUND

#### PUBLIC WATER SUPPLY SYSTEM INFORMATION

#### NO WELLS FOUND

#### AREA RADON INFORMATION

Zip Code: 88231

Number of sites tested: 2

#### Area

## Average Activity

Living Area - 1st Floor Living Area - 2nd Floor Basement 0.250 pCi/L Not Reported Not Reported 100% Not Reported Not Reported

% <4 pCi/L

0% Not Reported Not Reported

% 4-20 pCi/L

% >20 pCi/L

0% Not Reported Not Reported

† Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

Map ID Direction Distance

## WELL SEARCH FINDINGS

| A1<br>East<br>1/8 - 1/4 Mile | Site ID:<br>Site Type:<br>Year Constructed:<br>Altitude:<br>Well Depth:<br>Depth to Water Table:<br>Date Measured:  | 323256103150301<br>Single well, other than collector of<br>Not Reported<br>3511.00 ft.<br>Not Reported<br>Not Reported<br>Not Reported                            | Info. Source:<br>or Ranney type<br>County:<br>State:<br>Topographic Setting:<br>Prim. Use of Site:<br>Prim. Use of Water: | USGS<br>Lea<br>New Mexico<br>Not Reported<br>Not Reported<br>Not Reported |
|------------------------------|---|---|---|---|
| L                            | ITHOLOGIC DATA  |   |   |   |
|                              | Not Reported  |   |   |   |
| w                            | ATER LEVEL VARIABILIT   | Y   |   |   |
|                              | Water Level: 42.78 ft.<br>Date Measured: 03/26/54   | Water Level: 42.04<br>Date Measured: 02/28  |   |   |
|                              | Site ID:<br>Site Type:<br>Year Constructed:<br>Altitude:<br>Well Depth:<br>Depth to Water Table:<br>Date Measured:<br>ITHOLOGIC DATA<br>Not Reported<br>/ATER LEVEL VARIABILIT<br>Water Level: 41.68 ft.<br>Date Measured: 04/10/68 | Water Level: 40.72  | County:<br>State:<br>Topographic Setting:<br>Prim. Use of Site:<br>Prim. Use of Water:                                    |   |
|                              | Site ID:<br>Site Type:<br>Year Constructed:<br>Altitude:<br>Well Depth:<br>Depth to Water Table:<br>Date Measured:<br>ITHOLOGIC DATA<br>Not Reported<br>/ATER LEVEL VARIABILIT<br>Water Level: 29.34 ft.                            | 323231103152401<br>Single well, other than collector of<br>Not Reported<br>3499.00 ft.<br>Not Reported<br>Not Reported<br>Not Reported<br>Y<br>Water Level: 28.69 | County:<br>State:<br>Topographic Setting:<br>Prim. Use of Site:<br>Prim. Use of Water:                                    | USGS<br>Lea<br>New Mexico<br>Not Reported<br>Not Reported<br>Not Reported |
|                              | Date Measured: 03/26/54   |   |   |   |

Map ID Direction Distance

Water Level:

Date Measured: 02/04/76

35.94 ft.

.

## WELL SEARCH FINDINGS

| 4<br>WSW<br>1/2 - 1 Mile | Site ID:<br>Site Type:<br>Year Constructed<br>Altitude:<br>Well Depth:<br>Depth to Water T<br>Date Measured: | able:                 | 323248103154901<br>Single well, other than co<br>Not Reported<br>3509.00 ft.<br>Not Reported<br>Not Reported<br>Not Reported | County<br>State:<br>Topog<br>Prim. U | ey type                | USGS<br>Lea<br>New Mexico<br>Not Reported<br>Not Reported<br>Not Reported |                                |                       |
|--------------------------|--|-----------------------|--|--------------------------------------|------------------------|---|--------------------------------|-----------------------|
| •                        | Not Reported   | -                     |  |                                      |                        |   |                                |                       |
| ,                        | WATER LEVEL VA   |                       | v  |                                      |                        |   |                                |                       |
|                          | Water Level:<br>Date Measured:   | 29.92 ft.             | Water Level:<br>Date Measured:   | 23.54 ft.<br>01/15/71                | Water Lev<br>Date Meas | -   |                                |                       |
| 5<br>SSE                 | Site ID:   |                       | 323221103145701  | Info. S                              |                        | USGS  |                                |                       |
| 1/2 - 1 Mile             | Site Type:<br>Year Constructed<br>Altitude:<br>Well Depth:<br>Depth to Water T<br>Date Measured:             |                       | Single well, other than co<br>Not Reported<br>3481.50 ft.<br>Not Reported<br>Not Reported<br>Not Reported                    | County<br>State:<br>Topog<br>Prim. U |                        | Lea<br>New Mexico<br>Not Reported<br>Not Reported<br>Not Reported         |                                |                       |
| I                        | ITHOLOGIC DAT  | 4                     |  |                                      |                        |   |                                |                       |
|                          | Not Reported   |                       |  |                                      |                        |   |                                |                       |
| ١                        | NATER LEVEL VA   | RIABILIT              | (  |                                      |                        |   |                                |                       |
|                          | Water Level:<br>Date Measured:   | 38.38 ft.<br>03/26/54 | Water Level:<br>Date Measured:   | 36.61 ft.<br>02/28/61                | Water Lev<br>Date Meas |   | Water Level:<br>Date Measured: | 38.77 ft.<br>01/15/71 |

## NEW MEXICO GERNMENT WELL RECORD

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SWDIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

**Area Radon Information:** The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

**EPA Radon Zones:** Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

**USGS Water Wells:** In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

Water Dams: National Inventory of Dams

Source: Federal Emergency Management Agency

Telephone: 202-646-2801

National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.



# WORK PLAN FOR BIOREMEDIATION OF EOTT'S 9718 LOCATION

ETGI PROJECT NO. EOT.1003R

PREPARED BY:

ENVIRONMENTAL TECHNOLOGY GROUP, INC. MIDLAND, TEXAS

JULY 1, 1999

# Work Plan for Bioremediation of EOTT's Eunice, New Mexico

Prepared For:

EOTT Energy Corporation P.O. Box 1660 Midland, Texas 79702

ETGI Project No. EOT.1004R

Ronnie W. Nickell

July 1, 1999

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Appendix I: Cost Estimate

#### **1.0 INTRODUCTION**

Environmental Technology Group, Inc. (ETGI) is pleased to present to EOTT Energy Corp. this Work Plan for in-situ bioremediation of petroleum contaminated soils located at their Eunice, New Mexico location.

The remediation process selected for this site involves treating the contaminated soils with bioremediation treatment technologies. Water augmented with microbes, nutrients, bioenhancers, and oxygen is injected into the contaminated soil through the Deep Remediation Injection System (DRIS).

ETGI's project objective is the remediation of petroleum contaminated soils in the areas defined by visual inspection on June 30, 1999. Execution of this Work Plan, utilizing bioremediation with the DRIS for a period of 6 months, should remediate these areas down to a depth of 25 feet.

The Project's goal is to achieve cleanup of contaminants detected in the treatment areas that meet and/or exceed the Oil Conservation Division (OCD) action level of soil to 5,000 ppm and ground water to 100 ppm. Total petroleum hydrocarbons (TPH). TPH is to be analyzed by EPA Method 8015.

In the event EOTT chooses to accept the cleanup goal required to meet OCD standards for TPH, ETGI, upon demonstrating the remediation of contaminants to this standard, will cease with the treatment activities and demobilize upon EOTT's written request.

#### 2.0 TREATMENT AREAS

The areas that require treatment measure approximately 130' X 60' X 25' deep. Based on a preliminary site visit, the estimated volumes of contamination are approximately 7222 cubic yards.

#### 3.0 FIELD WORK

#### 3.1 Establishing Baseline Conditions

ETGI will establish baseline conditions in the impacted area by collecting soil samples and submitting these samples for analysis. Exact soil sample locations will be determined from the sampling grid for each of the treatment areas. This grid will allow duplication of sampling events to demonstrate achieved cleanup levels.

#### 3.2 Monthly field Activities

The DRIS will be used once a month to introduce microbes, nutrients, and surfactant into

the contaminated soil. Monthly sampling of treated soils will be performed to fine tune the system and achieve optimal bioremedial activity and efficiency.

#### 4.0 SAMPLING PROTOCOL

Each boring will be completed with a Geo Probe. Soil samples will be trimmed from the sampler using a decontaminated tool. A sample of soil will be placed into a glass container. The container will be placed into an ice chest with ice. The samples collected for TPH analysis for each boring location will be placed into laboratory supplied glass containers and immediately placed into a cooler with sufficient ice to maintain a temperature less than 4 degrees C. Relevant sampling data will be recorded into a field notebook. At the conclusion of all baseline sampling, the on-site Project Manager will complete and sign a Chain-of-Custody form and submit the samples for transportation to the designated analytical laboratory.

#### 5.0 LABORATORY ANALYSIS PARAMETERS

#### 5.1 Baseline Analytical Parameters

The analytical parameters that will be used to determine baseline conditions for the composite soil samples are as follows:

- 1. Total Petroleum Hydrocarbons (TPH) EPA Method 8015
- 2. BTEX EPA Method SW 846-8021B

#### **5.2 Monthly Operational Analytical Parameters**

The analytical parameters that will be used to determine the degradation activity and progress of the treatment system are:

# TPH BTEX

#### 6.0 DECONTAMINATION

To prevent possible cross contamination of samples, all sampling equipment will be decontaminated prior to each use. Decontamination will be completed by cleaning the sampling equipment in a non-phosphate detergent in water, followed by triple rinsing in distilled water.

#### 7.0 PROJECT ASSUMPTION

In order for ETGI to complete this project specified in the Work Plan, the following assumptions/limitations have been made:

- \* Written permission from EOTT to complete subsurface boring and injections using the DRIS unit. This will require all utilities to be located and marked by EOTT and the appropriate utility companies.
- \* Based on initial observations, contaminated soils exist down to a maximum depth of 25 feet.
- \* Baseline sampling and analysis will demonstrate that the only contaminant of concern is TPH and that conditions do not exist that will inhibit microbes which are used for treating TPH contaminated soils. Baseline sampling will also confirm that contaminated soils exist to a maximum depth of 25 feet and groundwater investigation and/or treatment will not be necessary.
- \* Borings will be completed in soil and not in hard rock. ETGI follow the OCD guidelines for remediation activities. Regulatory reports, requests, and communications are not included in this project. Any regulatory communication will be completed by EOTT. All copies of the quarterly reports and the final report will be submitted by ETGI in sufficient quantity for EOTT to forward copies to the appropriate regulatory authorities. Any enforcement actions made by the regulatory agencies are beyond the scope of this project. All work will be completed using Level D safety equipment consisting of steel-toe shoes, hard hats, safety glasses, and safety gloves.

#### 8.0 PROJECT MANAGEMENT

ETGI will be the prime consultant responsible for conducting the enhanced biotreatment of the contaminated soils at EOTT's facility. All data collected will adhere to the specific requirements to control the quality of data and results obtained from the information collected.

#### 8.1 Project Management, Organization, and Key Technical Personnel

ETGI will be the prime consultant responsible for conducting the remedial project at the EOTT site. Firms that have been incorporated as subcontractors for this project include: Environmental Lab of Texas, Inc. for chemical analytical services.

Monthly progress reports will be prepared and submitted to EOTT with a monthly invoice.

Progress reports will provide details by task, compliance with the project schedule, accomplishments, and projected changes in the project scope.

#### 9.0 PROJECT SCHEDULE

Field activities will be started two weeks after written approval from EOTT to proceed with remediation, by collecting samples to determine baseline conditions. Monthly soil samples will be collected and submitted for analysis. The analytical results obtained will be used to calibrate the bioremediation systems. Upon completion of all field activities and reducing the contamination to meet OCD's standard selected by EOTT, a draft report will be prepared within 15 working days, and submitted to EOTT for review. The anticipated time frames for completion of this project to meet OCD's standard is six months.

ETGI's goal are to complete this project meeting the objectives specified in Section 1.0 in a safe and incident-free manner, within budget, and on schedule. ETGI has an excellent health and safety-record with zero reportable accidents to OSHA.

#### **NOTICE OF PUBLICATION**

#### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation, 2040 S. Pacheco, Santa Fe, New Mexico, 87505, Telephone (505)827-7131:

EOTT Energy Pipeline Limited Partnership, Lennah Frost, Sr. Environmental Engineer, Telephone 915/684-3467, P.O. Box 1660, Midland, TX 79702, has submitted a Stage 1 Abatement Plan Proposal for TNM-97-18, located approximately 6 miles south of Monument, New Mexico in Unit B, Section 28, T-20-S, R-37-E, Lea County, New Mexico. EOTT Energy Pipeline Limited Partnership operates a crude oil pipeline at the site. No phaseseparated hydrocarbon (PSH) have been observed on the groundwater. The Stage 1 Abatement Plan Proposal presents the following subsurface investigation activities: determine site geology and hydrogeology; conduct a registered water well search within a 1 mile radius of the site; install a minimum of 1 monitoring well; if necessary, install additional wells, collect soil samples for field screening and/or laboratory analysis from each boring; collect groundwater measurements and calculate the ground water gradient and direction; survey all well locations by a professional land surveyor registed in the State of New Mexico; and prepare a report summarizing field activities and laboratory results.

Any interested person may obtain further information from the Oil Conservation Division and May submit written comments to the Director of the Oil Conservation Division at the address given above. The Stage 1 Abatement Plan Proposal may be view at the above address or at the Oil Conservation Division Hobbs District Office, 1625 N. French Drive, Hobbs, New Mexico 88240, Telephone (505) 393-6161 between 8:00 a.m. and 4:00 pm, Monday through Friday. Prior to ruling on any proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted..

# EOTT ENERGY Pipeline Limited Partnership

P.O. BOX 1660 5805 E. BUSINESS 20 MIDLAND, TEXAS 79702 (915) 687-2040

### **Affidavit of Mailing**

This certifies that on July 12,1999 a written notice of the Stage 1 Investigation Proposal was sent regular mail to the following persons:

See attached list

\*\*\* indicates was sent certified mail

L'ennah Frost Sr. Environmental Engineer

1-12-99

Date

Nrm2r,7

Tammy Turner Witness

7-99

Date

#### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation, 2040 S. Pacheco, Santa Fe, New Mexico, 87505, Telephone (505)827-7131:

EOTT Energy Pipeline Limited Partnership, Lennah Frost, Sr. Environmental Engineer, Telephone 915/684-3467, P.O. Box 1660, Midland, TX 79702, has submitted a Stage 1 Abatement Plan Proposal for TNM-98-05 and TNM-98-05A, located approximately 2 miles northeast of Eunice, New Mexico in Unit E, Section 26, T-21-S, R-37-E, Lea County, New Mexico. EOTT Energy Pipeline Limited Partnership operates a crude oil pipeline at the site. Phase-separated hydrocarbon (PSH) has been observed on the groundwater. The Stage 1 Abatement Plan Proposal presents the following subsurface investigation activities: determine site geology and hydrogeology; conduct a registered water well search within a 1 mile radius of the site; install a minimum of 1 monitoring well; if necessary, install additional wells, collect soil samples for field screening and/or laboratory analysis from each boring; collect groundwater measurements and calculate the ground water gradient and direction; survey all well locations by a professional land surveyor registed in the State of New Mexico; and prepare a report summarizing field activities and laboratory results.

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Gary & Delrose Scott 2000 N. Fowler Hobbs, NM 88240

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Director State Parks & Recreation Villagra Building Santa Fe, N.M. 87503

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Dr. Jay Sorenson 2800 Charleston NE Albuqurque, N.M. 87110

Director El Paso Natural Gas Environmental Affairs Dept. P. O. Box 1492 El Paso, Texas 79978

Bob Steele Land & Mineral Resources P. O. Box 194 Laguna, N.M. 87026

Environmental Manager Anaconda Copper Company P. O. Box 638 Grants, N.M. 87020

Westinghouse Electric Corp. Manager - Uranium Resources Div. P. O. Box 355 Pittsburg, P.A. 15230

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Maxine Goad NM Environment Deptartment Surface Water Quality Bureau Harold Runnels Building Santa Fe, NM 87503

Thomas Kellahin Kellahin & Kellahin P. O. Box 2265 Santa Fe, NM 87501

Director Department of Game & Fish Villagra Building Santa Fe, NM 87503

Jackie Jennings Core Laboratories, Inc. 10703 E. Bethany Drive Aurora, CO 80014

Olson Plunk Southwestern Public Service P. O. Box 1261 Amarillo, TX 79170

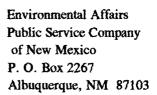
Soil and Water Conservation Bureau





New Mexico Department of Agriculture Agriculture Programs and Resources Division Box 30005/APR Las Cruces, New Mexico 88003-8005

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Governor Pueblo of Laguna P. O. Box 194 Laguna, NM 87026

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State Director Bureau of Land Management P. O. Box 27115 Santa Fe, NM 87502-0115

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NM Municipal League P. O. Box 846 1229 Paseo De Peralta Santa Fe, NM 87501

Jay Lazarus P. O. Box 5727 Santa Fe, NM 87502

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Director Water Resources Dept. p. O. Box 1293 Albuquerque, NM 87103 NM Water Well Association 1205 California NE Albuquerque, NM 87110

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Director Division of Water Quality 288 North 1460 West Salt Lake City, UT 84114-4870

Jack A. Barnett Colorado River Basin Ctrl. Forum 106 West 500 South, Suite 101 Bountiful, UT 84010

#### Chief

9 1 1 4

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Chief Hazardous Waste Bureau Runnels Building Santa Fe, NM 87504

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Devon E. Jercinovic International Technology Corp. 5301 Central Avenue, N.E. Suite 700 Albuquerque, NM 87108

N.M. Oil & Gas Association P. O Box 1864 Santa Fe, New Mexico 87504-1864

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|  | ****William Turner<br>New Mexico Natural Resources Trustee<br>c/o American Groundwater Consultant<br>610 Gold St. S.W.<br>Suite 111<br>Albuquerque, NM 87102 |                     |
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