

5309 Wurzbach, Suite 100 San Antonio, Texas 78238 (210) 680-3767 (210) 680-3763 FAX



September 10, 1998

Mr. Tony Savoie TEXAS - NEW MEXICO PIPE LINE COMPANY P.O. Box 1030 Jal, New Mexico 88252



Re: Closure Report Monument Site No. 5 Unit G, Section 25, Township 19 South, Range 36 East Lea County, New Mexico Job No. 610057-2-5

Dear Mr. Savoie:

Transmitted with this letter is the final Closure Report for Monument Site No. 5 located in Lea County, New Mexico. One copy has been forwarded to OCD Sante Fe and one to OCD Hobbs.

Please contact me at (210) 680-3767 with any questions or comments.

Respectfully,

V Sto for

Theresa Nix Project Manager

Enclosure

cc: Marc Oler; TTTI Wayne Price, OCD Hobbs-William Olson, OCD Sante Fe

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# **CLOSURE REPORT**

TEXAS - NEW MEXICO PIPE LINE COMPANY MONUMENT SITE NO. 5 UNIT G, SECTION 25, TOWNSHIP 19 SOUTH, RANGE 36 EAST LEA COUNTY, NEW MEXICO



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# **CLOSURE REPORT**

# **TEXAS - NEW MEXICO PIPE LINE COMPANY MONUMENT SITE NO. 5** UNIT G, SECTION 25, TOWNSHIP 19 SOUTH, RANGE 36 EAST LEA COUNTY, NEW MEXICO

PREPARED FOR:

## **TEXAS - NEW MEXICO PIPE LINE COMPANY** P. O. Box 1030 Jal, New Mexico 88252

Mr. Tony Savoie

**PREPARED BY:** 

KEI

<sup>O</sup>Daryl Stacey **Project Manager** 

**Theresa Nix Project Manager** 

Pat Bullinger, P.E

KEI Job No. 610057-2-5

September 10, 1998

| PURPOSE AND SCOPE   | 1 |
|---|---|
| PREVIOUS INVESTIGATIONS   | 1 |
| CLOSURE ACTIVITIES<br>CLOSURE STANDARDS<br>EXCAVATION, TREATMENT, AND BACKFILL<br>CONFIRMATION SAMPLING                                 | 2 |
| CLOSURE SUMMARY   | 3 |
| FIGURES<br>FIG. 1 - SITE LOCATION MAP<br>FIG. 2 - APPROXIMATE EXCAVATION AREA AND SAMPLE LOCATIONS                                      |   |
| TABLES<br>GENERAL NOTES<br>TABLE I - SUMMARY OF SOIL RESULTS - BTEX AND TPH   |   |
| APPENDICES<br>APPENDIX A - SOIL LABORATORY REPORTS<br>APPENDIX B - DISPOSAL AND BACKFILL DOCUMENTATION<br>APPENDIX C - QA/QC PROCEDURES |   |

# PURPOSE AND SCOPE

The objective of the site activities was to obtain closure based on New Mexico Oil Conservation Division (OCD) regulations. The following activities were performed to achieve this objective:

- determination of closure standards
- excavation of impacted soil
- characterization of excavated soil
- confirmation sampling in the excavated area
- on-site shredding and blending of impacted soil with clean soil, then backfilling with blended soil in the excavated area

Ground water wells were installed as part of a previous investigation. Soil excavation demonstrated that ground water contamination was not a result of TNMPL activities.

# PREVIOUS INVESTIGATIONS

The Texas - New Mexico Pipe Line Company (TNMPL) Monument Site No. 5 is located in Unit G, Section 25, Township 19 South, Range 36 East as presented on FIG. 1. A subsurface investigation was conducted by KEI at the site. The results of this investigation are summarized in the Subsurface Investigation Report dated September 9, 1997. The following activities were performed as part of the subsurface investigation:

- sensitive receptor survey, migration pathway evaluation, and registered water well search
- installation of 6 soil borings on March 14 and 26, 1997
- installation of 3 monitoring wells on March 26 and 27, 1997
- collection of soil samples from native soils during soil boring and monitoring well installation

Soil samples collected during the advancement of soil borings and monitoring wells were submitted for determination of benzene, toluene, ethylbenzene, and xylene (BTEX), and total petroleum hydrocarbon diesel range organics (TPH-DRO) concentrations. The soil sample with the highest TPH-DRO concentration was submitted for SPLP TPH, SPLP Volatile Organic Compounds (VOCs) and SPLP Semi-Volatile Organic Compounds (SVOCs). Analytical results indicated the following concentration ranges:

| CONSTITUENT | CONCENTRATION RANGES |
|-------------|----------------------|
| BENZENE     | ND to 0.82 mg/kg     |
| BTEX        | ND to 4.42 mg/kg     |
| ТРН         | ND to 46,600 mg/kg   |
| SPLP TPH    | ND                   |
| SPLP VOCs   | ND                   |
| SPLP SVOCs  | ND                   |

Analytical results from the soil samples are summarized in TABLE I. Quality assurance/quality control methods used during sampling activities are presented in APPENDIX C.

# **CLOSURE ACTIVITIES**

#### CLOSURE STANDARDS

The New Mexico OCD Guidelines for Remediation of Leaks, Spills, and Releases contains the standard criteria for remediation activities. A ranking analysis for the site was performed to determine appropriate soil remediation levels. The ranking analysis is as follows:

| Depth to Ground Water | Less Than 50 Feet                             | 20 Points |
|-----------------------|---|-----------|
|                       | Greater Than 1000 Feet to Water Source        |           |
| Well Head Protection  | Greater Than 200 Feet to Private Water Source | 0 Points  |
| Surface Water Body    | Greater Than 1000 Feet                        | 0 Points  |
|                       | Total Ranking Score                           | 20 Points |

Based on the total ranking score, the closure objectives for this site for concentrations of benzene, BTEX, and TPH in soil are summarized below.

| CONSTITUENT | CLOSURE CONCENTRATIONS<br>(mg/kg) |
|-------------|-----------------------------------|
| BENZENE     | 10                                |
| BTEX        | 50                                |
| ТРН         | 100                               |

#### EXCAVATION, TREATMENT, AND BACKFILL

Impacted soils were excavated and placed on plastic on-site. The soils and rock were processed through a soil shredder to separate rock from soil and reduce TPH concentrations. Approximately  $320 \text{ yd}^3$  of rock and  $440 \text{ yd}^3$  of soil were stockpiled separately on-site. The stockpiled rock was transported off-site to backfill an existing caliche pit. Approximately 210 yd<sup>3</sup> of clean fill material was purchased and blended with the excavated soil stockpile and used to backfill the excavation. Disposal and backfill documentation is presented in APPENDIX B.

#### CONFIRMATION SAMPLING

Confirmation soil samples were collected on May 27, 1998, from the excavation sidewalls and floor. Composite samples were also collected from the soil stockpile prior to blending with clean soil on May 27, 1998, and after blending with clean soil on June 4, 1998. The samples were submitted for determination of BTEX and TPH concentrations. The concentration ranges are presented below:

| SOIL<br>CONSTITUENT           | BENZENE<br>(mg/kg) | BTEX<br>(mg/kg) | TPH<br>(mg/kg) |
|-------------------------------|--------------------|-----------------|----------------|
| Sidewall                      | ND                 | 0.632 and 0.956 | ND             |
| Bottom                        | ND                 | ND and 4.737    | 34 and 99      |
| Stockpile (prior to blending) | ND                 | 3.821           | 1,950          |
| Stockpile (after blending)    | ND                 | 1.157           | 561            |

During a previous investigation, soil boring B5-1 was advanced within the stained area, which is now the excavation area. The soil sample from this boring with the highest TPH concentration (46,600 mg/kg) was also tested for SPLP VOC, SPLP SVOC, and SPLP TPH concentrations. These concentrations were all below detection limits.

Analytical results from the soil samples are summarized in TABLE I. Soil analytical reports are presented in APPENDIX A. The soil sample locations and results are presented on FIG. 2.

# **CLOSURE SUMMARY**

The following can be summarized from field and analytical data:

- Confirmation samples taken from the bottom hole and sidewalls of the excavation indicated BTEX and TPH concentrations below OCD closure standards.
- Approximately 320 yd<sup>3</sup> of rock was transported off-site to backfill an existing caliche pit.
- Approximately 440 yd<sup>3</sup> of impacted soil was blended with approximately 210 yd<sup>3</sup> of clean soil and backfilled in the excavation.
- A sample taken from the excavation area during a previous investigation with a TPH concentration of 46,600 mg/kg exhibited no detectable concentrations of SPLP VOC, SPLP SVOC, and SPLP TPH.
- Ground water impact at the site is apparently not related to TNMPL activities.

Based on activities completed at the site and analytical results from selected soil samples, we request the site be closed under OCD regulations governing releases impacting soils only.



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# **GENERAL NOTES**

- ND Indicates constituent was not detected above the method detection or laboratory reporting limit.
- --- Indicates no depth was referenced on the chain-of-custody (TABLE I)

Method detection/reporting limits:

| Soil: | ТРН          | - | 10 mg/kg             |
|-------|--------------|---|----------------------|
|       | Benzene      | - | 0.020 to 0.050 mg/kg |
|       | Toluene      | - | 0.020 to 0.050 mg/kg |
|       | Ethylbenzene | - | 0.020 to 0.050 mg/kg |
|       | Xylene       | - | 0.060 to 0.150 mg/kg |
|       | BTEX         | - | 0.120 to 0.300 mg/kg |
|       | SPLP TPH     | - | 1.2 mg/L             |
|       | SPLP VOCs    |   | 0.025 to 0.050 mg/L  |
|       | SPLP SVOCs   | - | 0.010 to 0.025 mg/L  |

Laboratory test methods:

| Soil: | TPH (by TNMPL | .) - | Modified EPA Method 8015 DRO |
|-------|---------------|------|------------------------------|
|       | TPH (by KEI)  | -    | EPA Method 418.1             |
|       | BTEX          | -    | EPA Method SW846-8020        |
|       | SPLP TPH      | -    | EPA Method 1312/418.1        |
|       | SPLP VOCs     | -    | EPA Method 1312/8260         |
|       | SPLP SVOCs    | -    | EPA Method 1312/8270         |

## TABLE I

## SUMMARY OF SOIL RESULTS - BTEX AND TPH MONUMENT SITE NO. 5 LEA COUNTY, NEW MEXICO

|                |         |         |                    |          | ETHYL-  |                                       | TOTAL   |         |
|----------------|---------|---------|--------------------|----------|---------|---------------------------------------|---------|---------|
| SAMPLE         | SAMPLE  | DEPTH   | BENZENE            | TOLUENE  | BENZENE | XYLENES                               | BTEX    | TPH     |
| LOCATION       | DATE    | (feet)  | (mg/kg)            | (mg/kg)  | (mg/kg) | (mg/kg)                               | (mg/kg) | (mg/kg) |
|                |         |         |                    |          |         |                                       |         |         |
| <u>B5-1</u>    | 3/14/97 | 1-2     | 1-2 ND ND ND 0.108 |          | 0.108   | 19,000                                |         |         |
| B5-1           | 3/26/97 | 5-6     | 0.82               | 1.01     | 0.65    | 1.94                                  | 4.42    | 46,600  |
| B5-1           | 3/26/97 | 15 - 16 | NT                 | NT       | NT      | NT                                    | NT      | 46.0    |
| B5-1           | 3/26/97 | 21 - 22 | ND                 | ND       | ND      | ND                                    | ND      | 14.5    |
|                |         |         |                    |          |         |                                       |         |         |
| B5-2           | 3/14/97 | 0 - 1   | ND                 | ND       | ND      | ND                                    | ND      | 43.0    |
| B5-2           | 3/26/97 | 5 - 6   | ND                 | ND       | ND      | ND                                    | ND      | ND      |
| B5-2           | 3/26/97 | 21 - 22 | ND                 | ND       | ND      | ND                                    | ND      | ND      |
|                |         |         |                    |          |         |                                       |         |         |
| B5-3           | 3/14/97 | 0.5 - 1 | ND                 | ND       | ND      | ND                                    | ND      | 41.0    |
|                |         |         |                    |          |         |                                       |         |         |
| B5-4           | 3/14/97 | 1-2     | ND                 | ND       | ND      | ND                                    | ND      | 54.0    |
| B5-4           | 3/14/97 | 5-6     | ND                 | ND       | ND      | ND                                    | ND      | 30.5    |
| B5-4           | 3/14/97 | 21 - 22 | ND                 | ND       | ND      | ND                                    | ND      | 22.0    |
|                |         |         |                    |          |         |                                       |         |         |
| B5-5           | 3/26/97 |         | NT                 | NT       | NT      | NT                                    | NT      | NT      |
|                |         |         |                    |          |         |                                       |         |         |
| B5-6           | 3/26/97 | 5-6     | ND                 | ND       | ND      | ND                                    | ND      | 10.5    |
| B5-6           | 3/26/97 | 19 - 20 | ND                 | ND       | ND      | ND                                    | ND      | 11.5    |
|                |         |         |                    |          |         |                                       |         |         |
|                |         | eB      | оттом но           | LE COMPO | SITE    | · · · · · · · · · · · · · · · · · · · |         |         |
| SECTION A      | 5/27/98 |         | ND                 | ND       | ND      | ND                                    | ND      | 99      |
| SECTION B      | 5/27/98 |         | ND                 | 0.950    | 1.014   | 2.773                                 | 4.737   | 34      |
|                |         | L       | SIDEWALL           | COMPOSI  | re      |                                       |         |         |
| SECTION A      | 5/27/98 |         | ND                 | 0.247    | 0.160   | 0.549                                 | 0.956   | ND      |
| SECTION B      | 5/27/98 |         | ND                 | 0.172    | ND      | 0.460                                 | 0.632   | ND      |
|                |         |         |                    |          |         |                                       |         |         |
| STOCKPILE      |         |         | 1                  |          |         |                                       |         |         |
| PRIOR TO       | 6/07/06 |         |                    | 0.500    |         |                                       |         | 1.050   |
| BLENDING       | 5/2//98 |         |                    | 0.532    | 0.653   | 2.636                                 | 3.821   | 1,950   |
| STOCKPILE      | 0/4/00  |         |                    |          |         | 0.004                                 |         |         |
| AFTER BLENDING | 6/4/98  |         |                    | 0.182    | 0.171   | 0.804                                 | 1.157   | 561     |
|                |         | L       | I                  | 1        |         |                                       |         | l       |

#### NOTES:

1. Sample B5-1 (1-2) was sampled on 03/26/97 and analyzed for SPLP volatiles, semivolatiles and TPH concentrations. Lab results indicated no constituent was detected above the method detection limit.



"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE ATTN: MR. TONY SAVOIE P.O. BOX 1030 JAL, NEW MEXICO 88252 FAX: 505-395-2636

Receiving Date: 05/28/98 Sample Type: SOIL Project #: TNM SITE 5 Project Name: NONE GIVEN Project Location: MONUMENT, NM LEA CO.

Analysis Date: 05/28/98 Sampling Date: 05/27/98 Sample Condition: Intact/Iced

| ELT#  | FIELD CODE                     | BENZENE<br>(mg/kg) | TOLUENE<br>(mg/kg) | ETHYLBENZENE<br>(mg/kg) | m.p-XYLENE<br>(mg/kg) | o-XYLENE<br>(mg/kg) | >C10-C28<br>(mg/kg) |
|-------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------|---------------------|---------------------|
| 14486 | 05-27-98 SEC A BH COMP         | <0.100             | <0.100             | <0.100                  | <0.100                | <0.100              | 99                  |
| 14487 | 05-27-98 SEC A SW COMP         | <0.100             | 0.247              | 0.160                   | 0.398                 | 0.151               | <10                 |
| 14488 | 05-27-98 BH SEC B COMP         | <0.100             | 0.950              | 1.014                   | 0.867                 | 1.906               | 34                  |
| 14489 | 05-27-98 SW SEC B COMP         | <0.100             | 0.172              | <0.100                  | 0.181                 | 0.279               | <10                 |
| 14490 | 05-27-98 Particlized Soil Comp | <0.100             | 0.532              | 0.653                   | 1.471                 | 1.165               | 1,950               |

| % IA  | 111    | 112    | 111    | 109         | 114    | 110 |
|-------|--------|--------|--------|-------------|--------|-----|
| % EA  | 95     | 97     | 96     | <b>\$</b> 5 | 99     | 93  |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001      | <0.001 | <10 |

METHODS: EPA SW 846-8020,5030, 8015M DRO

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|---|---------------------------------------|--|--------------|----------|------------|---------------------------|---------------------|------------|--------------|----------------------|-----------|-------------|--------|------------------------|----------|------------|------------|--------------|------------------|-------|-------------------------|--------------|--------------------|------|-----|----|------------------------|-----------|
| roject Mana   | ton A                                 | MED                                    | . []         | /        | •          | Pho<br>FA                 | ae N:<br>K N:       | 91!<br>91! | 5/60<br>5/60 | 82-3<br>82-4         | 54<br>18  | 7<br>2      |        |                        |          |            |            | ANA          | LYSI             | s re( | QUES                    | T            |                    |      |     | -  |                        |           |
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| roject Locati   | off:                                  |  |              |          |            | Sen                       | ipler S             | gnaft      | ITE;         | ·· <u>···</u> ······ |           |             |        |                        |          | ö          |            |              |                  |       |                         |              |                    |      | 1   |    |                        |           |
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| LAB#  | FIELD C                               | ODE                                    | ATN.         | Jel A    | Ш          |                           | N<br>N<br>N         | 5          | 6            | <b>u</b>             | E.        |             |        | ž                      | ק        | ž          | 2          | Ser          |                  |       | Ľ                       |              |                    |      |     |    |                        |           |
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| 14486   | 05-70-98 3                            | Sec A                                  | 17           |          |            | 7                         |                     | +          |              | X                    |           | may         | 14:16  | x                      |          | 十          | 1-         | T            |                  |       | x                       |              |                    | - İ  | T   | +  | $\mathbf{H}$           |           |
| 14481   | DE- 22- 90 5                          | 12 A antip                             | 1            | <u> </u> |            | 7                         |                     | - -        |              | x                    |           | May         | 14:01  | X                      |          | $\uparrow$ | $\uparrow$ | $\uparrow$   |                  | Ţ,    | ,                       |              |                    |      | +   | +  | <b>}</b>               |           |
| 4488  | AC-72-967                             | Sul C. Sec B                           | <u>,</u>     | i –      |            | 1                         |                     | ╧          | 1-1          | v l                  |           | May         | 14.2   |                        | 1        |            | ╈          | 1-           |                  |       | $\overline{\mathbf{x}}$ |              |                    |      | +   | +  |                        |           |
| 4489  | AS-27 GB 5                            | 11 amp                                 |              |          | Ιť.        | $\frac{1}{2}$             |                     | - -        | $\uparrow$   | $\frac{2}{\sqrt{2}}$ |           | Nay         | 14:4   | Ē                      | -1       | +          | $\uparrow$ | 1-           |                  | Ť     | rt                      | $\mathbf{T}$ |                    |      | ╈   | 十  | 1-1                    |           |
| 4490  | AT-27-50 12                           | articlized                             | <u> </u> ,   | <u> </u> | 1-1'       | x                         | +                   |            |              | x -                  |           | MAY         | م من م | $\mathbf{y}$           |          |            | $\uparrow$ | ╋            |                  | -ŕ    | $\uparrow$              |              |                    |      | 十   | +  |                        |           |
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|   | Г. <u> </u>                           | Date:                                  | l            | Time     | <u> </u>   | -l                        | <u>I</u>            |            |              |                      | 1         | 1           | REMA   | I<br>RKS               |          |            |            | <u> </u>     |                  |       |                         | .I           | <u> </u>           |      |     |    |                        | L         |
| AV  | nd) I                                 | 5-78-6                                 |              |          | ~<br>7 * 1 | $\sim$                    |                     |            |              | , , ,                | · /       | j~          |        |                        |          |            |            |              |                  |       |                         |              |                    |      |     | •  |                        | ·         |
| ingsished to  | - 1-mars                              | Date                                   | 0            | 101      | <u> </u>   | $\underline{\mathcal{O}}$ |                     |            | 10m          | h Ca                 | A         | ioi         | •,     |                        |          |            |            |              |                  |       |                         |              |                    |      |     |    |                        |           |
| 2   | O/A.                                  | -78-98                                 |              |          |            | 2 5                       | -                   |            | D            | <i></i>              | _1        | $L \square$ | k      |                        |          |            |            |              |                  |       |                         |              | •                  |      |     |    |                        |           |
| runt  | unal.                                 | 5 60 18                                |              | <u> </u> | 0          |                           |                     |            | Ka           | Kan                  | <u>C/</u> | -jual       | þ.     |                        |          |            |            |              |                  |       |                         |              |                    |      |     |    |                        | . 1       |

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# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE ATTN: MR. TONY SAVOLE P.O. BOX 1030 JAL, NEW MEXICO 88252 FAX: 505-385-2636

Receiving Date: 06/04/98 Sample Type: Soil Project #: TNM Site 5 Project Name: None Given Project Location: Monument, N.M.

Analysis Date: 06/04/98 Sampling Date: 06/04/98 Sample Condition: Intact/iced

| ELT#  | FIELD CODE                  | BENZENE<br>(mg/kg) | TOLUENE<br>(mg/kg) | ETHYLBENZENE<br>(mg/kg) | m.p-XYLENE<br>(mg/kg) | o-XYLENE<br>(mg/kg) | TPH (DRO)<br>>C10-C28<br>(mg/kg) |
|-------|-----------------------------|--------------------|--------------------|-------------------------|-----------------------|---------------------|----------------------------------|
| 14533 | 06-04-98 Blended Pile Comp. | <0.100             | 0.182              | 0.171                   | 0.480                 | 0.324               | <b>561</b>                       |
|       |                             |                    |                    |                         | 1.15                  | 7                   |                                  |

| % IA  | 95     | 97        | 97     | 95     | 100    | 106 |
|-------|--------|-----------|--------|--------|--------|-----|
| % EA  | 94     | <b>99</b> | 96     | 94     | 97     | 95  |
| BLANK | <0.001 | <0.001    | <0.001 | <0.001 | <0.001 | <10 |

METHODS: EPA SW 846-8020,5030, 8015M DRO

Michael R. Fowler

Date