



# **CLOSURE REPORT**

TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-96-S14 (STEPHEN'S PROPERTY) SECTION 14, TOWNSHIP 21 SOUTH, RANGE 37 EAST LEA COUNTY, NEW MEXICO



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

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## TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-96-S14 (<u>STEPHEN'S PROPERTY</u>) SECTION 14, TOWNSHIP 21 SOUTH, RANGE 37 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

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Theresa Nix

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P.E. Pat Bullinger

KEI Job No. 710031-1

April 29, 1999

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## PURPOSE AND SCOPE

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

- determination of OCD closure standards
- excavation of soils above OCD standard closure levels
- characterization of excavated impacted soil
- confirmation sampling in excavation
- off-site landfarming of impacted soil

## PREVIOUS INVESTIGATION

The Texas - New Mexico Pipe Line Company (TNMPL) release site is located approximately 22 miles north of Eunice, Lea County, New Mexico in Section 14, Township 21 South, Range 37 East, A site plan is presented as FIG. 1.

5-12-1999

A hydrocarbon release from a TNMPL 4 inch pipeline was identified at the site during July of 1997. The release appeared to migrate down hill into a former Chevron pit, accumulated on a portion of the pit surface, and then migrated off the former pit into adjacent pasture land. The boundaries of the former Chevron pit and the TNMPL release surface stain were clearly visible. Based on available information, it appeared the former pit was being remediated on the surface (plow and fertilizer), but no vertical delineation had been performed, to our knowledge.

KEI conducted an initial release response subsurface investigation from <u>July 25</u>, 1997 through August 6, 1997. The purpose of the investigation was to assess the extent of hydrocarbons across the site. The scope of work included installing 13 soil borings, collecting native soil samples, and submitting the samples for determination of total petroleum hydrocarbon (TPH) concentrations. Details of the initial release response investigation are presented in the KEI report dated December 1, 1997. A Remedial Action Plan (RAP) was submitted by KEI in a letter dated November 24, 1997.

## **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	45 to 50 Feet (assumed)	20 Points
Well Head Protection	Unknown distance to Water Source Unknown distance to Private Water Source	0 Points
Surface Water Body	Unknown distance	0 Points
	Total Ranking Score	20 Points

Based on the total ranking score, the closure objectives for this site for concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX), and TPH are summarized below.

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
ТРН	100 + Background

#### SOIL EXCAVATION, CHARACTERIZATION, LANDFARMING, AND CONFIRMATION

After receiving OCD approval of the Remedial Action Plan on July 16, 1998, hydrocarbonimpacted soil was excavated and stockpiled on-site. In the former Chevron pit area, soils were excavated to the depth of the visible stain (approximately 4.5 feet) and the remainder of the pit area was turned over to Chevron for further action. As approved in the RAP, confirmation sampling was not performed in the Chevron pit because of the presence of hydrocarbon in this pit prior to the TNMPL release. The approximate dimensions and depths of the excavation and soils removed are summarized below:

MEASUREMENT	VALUE
Approximate Length	375 feet
Approximate Width	5 to 45 feet
Approximate Area	8,000 square feet
Approximate Depth	0 to 6 feet
Volume Landfarmed	1110 cubic yards
Assumed Depth to Water	45 to 50 feet)

The stockpiled soils were transported to the EPL Landfarm located approximately 3 miles south of Eunice, New Mexico on July 31, 1998. Disposal documentation is included in APPENDIX C. Analytical results from composite samples of the stockpiled soils indicated the following concentration ranges:

CONSTITUENT	CONCENTRATION RANGE (mg/kg)
BENZENE	ND
BTEX	ND
ТРН	56 and 88

Soil samples from the side and bottom of the initial excavation were submitted for determination of BTEX and TPH concentrations. KEI personnel collected 10 samples on August 7, 1998. Three of the sampled areas from the initial excavation exceeded the TPH cleanup standard. Additional soils were excavated in these areas and TNMPL personnel

collected an additional 8 samples on August 18, 1998. Final concentration ranges of the sidewall and bottom soils are summarized below:

CONSTITUENT	CONCENTRATION RANGE (mg/kg)
BENZENE	ND to 0.885
BTEX	ND to 11.135
ТРН	ND to 276

Soil analytical results are summarized in TABLE I. Although samples No. 27 and No. 29 obtained from the bottom of the excavation within the roadway slightly exceed the TPH closure standard of 100 mg/kg, excavation was halted to avoid damage to the underlying roadbed. All other samples are within closure limits. The laboratory report and chain-of-custody documentation are provided in APPENDIX A.

## CLOSURE SUMMARY

The following can be summarized from field and laboratory data:

- previously impacted soil was excavated, stockpiled, and landfarmed off-site
- samples obtained from the excavated area indicated BTEX and TPH concentrations below closure standards, with the exception of two samples within the roadway, which had TPH concentrations of 248 and 276 mg/kg

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



#### TABLE I

## SUMMARY OF SOIL RESULTS - BTEX AND TPH TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-96-S14 LEA COUNTY, NEW MEXICO

				ETHYL-		TOTAL	
	SAMPLE	BENZENE	TOLUENE	BENZENE	XYLENES	BTEX	TPH
SAMPLE LOCATION	DATE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
#14 Excavation Bottom	08/07/98	ND	ND	ND	0.111	0.111	82
#15 Excavation Sidewall	08/07/98	0.236	ND	0.168	0.503	0.907	ND
#16 Excavation Bottom	08/07/98	0.190	0.234	0.560	2.019	3.003	49
#17 Excavation Bottom	08/07/98	0.885	1.68	2.03	6.54	11.135	ND
#18 Excavation Bottom	08/07/98	ND	0.186	0.377	1.283	1.846	1,259
#19 Excavation Sidewall	08/07/98	ND	ND	ND	ND	0.125	21
#20 Excavation Bottom	08/07/98	ND	ND	ND	ND	0.106	16
#21 Excavation Sidewall	08/07/98	ND	ND	ND	ND	ND	764
#22 Excavation Bottom	08/07/98	ND	ND	ND	ND	0.132	ND
#23 Excavation Sidewall	08/07/98	0.121	0.224	0.118	0.385	0.848	1,040
#24 Excavation Bottom							
(Replaced #18)	08/18/98						14
#25 Excavation Sidewall	09/19/09						ND
#26 Execution Sidewall	00/10/90						
(Replaced #23)	08/18/98						24
#27 Excavation Bottom	08/18/98	ND	ND	ND	ND	ND	248
#28 Excavation Sidewall	08/18/98	ND	ND	ND	ND	ND	81
#29 Excavation Bottom	08/18/98	ND	ND	0.108	0.366	0.474	276
#30 Stock Pile Composite	08/18/98	ND	ND	ND	ND	ND	88
#31 Stock Pile Composite	08/18/98	ND	ND	ND	ND	ND	56

#### NOTES:

ND - Indicates constituent was not detected above the method dection or reporting limit. --- - Indicates constituent was not analyzed.

Method reporting/detction limits:

BTEX TPH	-	0.100 mg/kg 10 ma/ka
Laboratory test methods:		
BTEX	-	EPA Method SW846-8020
TPH	-	Modified EPA Method 81015 Diesel Range Organics

ENVIRONMENTAL Lab of , Inc.

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**KEI** ATTN: THERESA NIX 5309 WURZBACH SUITE 100 SAN ANTONIO, TEXAS 78238 FAX: 210-680-3763 FAX: 505-395-2636

Receiving Date: 08/07/98 Sample Type: SOIL Project #:710031-1-0, Steven's Project Location: EUNICE

Analysis Date: 08/07/98 Sampling Date: 08/07/98 Sample Condition: Intact/load

ELT#	FIELD CODE	BENZENE	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m.p-XYLENE	e-XYLENE mg/kg	TPH (DRO) C10-C28 mg/kg
15066	All A Bottom of Evenueting	<i>&lt;</i> 0.100	<0.100	<i>4</i> 0 100	0.111	<i>(</i> ) 100	
15007		10.100	<b>NU.100</b> <sup>4</sup>	NU. 100	0.111	<b>CU. 100</b>	62
13007	WIZ SIGE OF EXCEVEDON	0.236	<0.100	0.168	0.271	0.232	<10
15068	#16 Battom of Exception	0.190	0.234	0.560	1.31	0.709	49
15069	#17 Bottom of Excavation	0.885	1.68	2.03	3.64	2.90	<10
15070	#18 Bottom of Excavation	<0,100	0.186	0.377	0.784	0.499	1,259
15071	#19 Side of Excevation	<0.100	<0.100	<0.100	0.125	<0.100	21
15072	#20 Battom of Excavation	<0.100	<0.100	<0.100	0.106	<0.100	16
15073	#21 Side of Excavation	<0.100	<0.100	<0.100	<0,100	<0.100	764
15074	#22 Boltom of Excevation	<0.100	<0.100	<0.100	0.132	<0.100	<10
15075	#23 Side of Excavation	0.121	0.224	0.118	0.272	0.113	1,040

% IA	93	95	93	92	96	101
% EA	91	93	92	91	95	106
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030, 8015m DRO

landk June Raland K. Tuttle

2-98 Date

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

Receiving Date: 08/18/98 Sample Type: Soil Project #: TNM 96-514 Project Name: Stephens Project Location: 2 mi. North of Eunice

Analysis Date: 08/18/98 Sampling Date: 08/18/98 Sample Condition: Intact/Iced

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FIELD CODE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	m.p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	C10-C28 (mg/kg)
#24 Bottom Hole	•	•	•	*	*	14
#25 Side Wall	•	•	*	*	•	<10
#26 Side Wall	•	•	•	•	٠	24
#27 Bottom Hole	<0.100	<0,100	<0.100	<0.100	<0.100	248
#28 Side Wall	<0.100	<0.100	<0.100	<0.100	<0.100	81
#29 Bottom Hole	<0.100	<0.100	0.108	0.253	0.113	276
#30 Stock Pile	<0.100	<0.100	<0.100	<0.100	<0.100	88
#31 Stock Pile	<0.100	<0.100	<0.100	<0.100	<0.100	56
	FIELD CODE #24 Bottom Hole #25 Side Wall #26 Side Wall #27 Bottom Hole #28 Side Wall #29 Bottom Hole #30 Stock Pile #31 Stock Pile	FIELD CODE BENZENE (mg/kg)   #24 Bottom Hole •   #25 Side Wall •   #25 Side Wall •   #27 Bottom Hole <0.100	BENZENE TOLUENE (mg/kg)   #24 Bottom Hole (mg/kg)   #25 Side Wall *   #26 Side Wall *   #27 Bottom Hole <0.100	BENZENE TOLUENE ETHYLBENZENE   FIELD CODE (mg/kg) (mg/kg) (mg/kg)   #24 Bottom Hole (mg/kg) (mg/kg) (mg/kg)   #25 Side Wall - - -   #26 Side Wall - - -   #27 Bottom Hole <0.100	BENZENE TOLUENE ETHYLBENZENE m.p-XYLENE   FIELD CODE (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg)   #24 Bottom Hole . . . . . .   #25 Side Wall . . . . . . .   #25 Side Wall . . . . . . .   #27 Bottom Hole <0.100	BENZENE TOLUENE ETHYLBENZENE m.p-XYLENE o-XYLENE   FIELD CODE (mg/kg)

% IA	91	98	100	98	102	103
% EA	81	87	87	85	91	81
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

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

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## **QA/QC PROCEDURES**

#### SOIL SAMPLING

Representative soil samples selected for analysis were placed in sterile glass containers equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity with soil to limit the amount of head-space present. The container was labeled and placed on ice in an insulated cooler. The cooler was sealed for shipment to Environmental Lab of Texas, Inc. in Odessa, Texas for determination of the following constituents:

- BTEX concentrations by EPA Method SW846-8020
- TPH concentrations by EPA Method 8015 Diesel Range Organics

Proper chain-of-custody documentation was maintained throughout the sampling process.

#### LABORATORY PROTOCOL

The laboratory was responsible for proper QA/QC procedures. These procedures are either transmitted with the laboratory reports or are on file at the laboratory.

New Wexico	Form C-1
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ec. NM 37410 (505) 827-7131	District Cf
<u>istrict IV</u> - (505) 327-7131 New Michael Content of the	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: A 1/2/ 75	4. Generator TNM PLCC
Verbal Approval Received: Yes 🗹 No 🗍 14	5. Originating Site TNM-96-514
2. Management Facility Destination EPL	6. Transporter Marryman Const. CC.
3. Address of Facility Operator 3m Sof Hus, 176+ Hus, 18 Eunice	8. State N. M.
7. Location of Material (Street Address or ULSTR)	La Nim
9. <u>Circle One</u> :	
A All requests for approval to accept oilfield exempt wastes will be acco	meanied by a certification of waste from the
Generator; one certificate per job.	
(B) All requests for approval to accept non-exempt wastes must be acco	mpanied by necessary chemical analysis to
PROVE the material is not-hazardous and the Generator's certification	n of origin. No waste classified hazardous by
listing of testing will be approved.	
All transporters must certify the wastes delivered are only those consigned	for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Crude oil AFF ected Scil	
Non Hazirdous By Knowledge OF Process	approval
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Estimated Volume cy Known Volume (to be entered by the ope SIGNATURE:	DATE: July 31 1998 EPHONENC. 394-3481 CATE:

#### CERTIFICATE OF WASTE STATUS

#### NON-EXEMPT WASTE MATERIAL

Originating Location: <u>Site TNM-96-514</u> <u>Sec. 14</u>, <u>TZIS</u>, <u>R37E</u> <u>Lea Nim</u>, Source: <u>Crude eil Pipeline</u> <u>SPILL</u>

Disposal Location: 3m; Seith of Hury 176 + Hury 18 Evale N.M.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's July 1988 Regulatory Determination. To my knowledge, this waste will either be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous or has been verified non-hazardous due to "Knowledge of Process." I further certify that to my knowledge no "hazardous or listed wastes" pursuant to the provisions of 40 CFR Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3 (b).

I, the undersigned as the agent for the	Texas	N.m.	Pipeline	<u>Co.</u>	 
concur with the status of the waste from	m the subject	rt site.			

NAME John A. Gavoie
TITLE/AGENCY ENV ROP
ADRESS PO Box 1030 Jul NM 58252
SIGNATURE Q. Danie
DATE 7-31-98

