RELEASE REPORT

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

August 26, 1996

CERTIFIED MAIL RETURN RECEIPT NO. P-269-269-196

Mr. Ernest J. Richarte Texas New Mexico Pipeline Company P.O. Box 1027 Lovington, New Mexico 88260

RE: CROSS TIMBERS SPILL SITE REMEJIATION LEA COUNTY, NEW MEXICO

Dear Mr. Richarte:

The New Mexico Oil Conservation Division (OCD) has completed a review of Texas-New Mexico Pipe Line Company's (TNMPLC) June 27, 1996 "FINAL REMEDIATION REPORT, TEXAS - NEW MEXICO PIPELINE CO., CROSS TIMBERS, TNM-49-95". This document contains the results of TNMPLC's remediation of the contamination related to crude oil spills at TNMPLC's Cross Timbers site located in Unit D, Sec. 33, T17S, R33E, NMPM, Lea County, New Mexico.

The above referenced remediation report is approved.

Please be advised that OCD approval does not relieve TNMPLC of liability if remaining contaminants are found to pose a future threat to surface water, ground water, human health or the environment. In addition, OCD approval does not relieve TNMPLC of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely

William C. Olson Hydrogeologist Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Superv Wayne Price, OCD Hobbs Office 6 5P8 5P8 78P

US Postal Service Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse) Sent to Street & Number Post Office, State, & ZIP Code \$ Postage Certified Fee Special Delivery Fee **Restricted Delivery Fee**" Return Receipt Showing to Whom & Date Delivered **Return Receipt Showing to Whom** Date, & Addressee's Address

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NMOCD INTER-OFFICE CORRESPONDENCE

TO: Bill Olson-NMOCD Hydrogeologist-Environmental Bureau.

Wayne Price-Environmental Engineer Wayne how From:

July 17, 1996 Date:

Texas-New Mexico Pipeline Co. Cross Timber Reference: TNM-49-95.

Remediation Final Report. Subject:

Comments:

Dear Bill,

Environmental Bureau Oil Conservation Division

Please find enclosed the above referenced report for your review and approval process. To assist you I have made comments within the report for your review.

Also please note the actual spill occurrence was from the production tank and not actually the pipeline. The custody transfer issue in this case is in a grey area as far as the regulations are concerned from the standpoint of exempt or nonexempt.

Please note while TNMPL was in the process of excavating the contaminated soil from their spill they ran into an old covered pit and surface contaminated site which is apparently located on the Cross Timbers Lease.

The NMOCD does not have any record of this pit closure. The Investigation of the extent and cause of the contamination at the Cross Timbers site is under deferment on the District Level.

In summary TNMPL has done an excellent job in their clean-up efforts, however the existing contamination hampered TNMPL's cleanup activities from the point of segregating which waste is who's and the fact that they are required to clean-up while another active site and operator is not required to clean up their contamination.

I recommend at a bare minimum that Cross Timbers be required to fill out and submit a pit closure form.

Jerry Sexton-NMOCD District I Supervisor cc:

attachments-1

NEW MEXICO ENERGY VINERALS AND NATURA RESOURCES DEPARTMENT

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POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

June 7, 1996

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JUN 17 1996

Environmental Bureau Oil Conservation Division

Mr. Billy Chapman Area Supervisor Texas-New Mexico Pipeline Co. (TNMPC) P.O. Box 1027 Lovington NM 88260

Re: TNM-49-95 Cross Timbers Final Closure Report. nw/4 nw/4 sec 33-Ts17s-R33e

Dear Mr. Chapman,

The New Mexico Oil Conservation Division (NMOCD) is in receipt of the C-103 (attached for reference) and final closure report for the above referenced facility submitted by Texas-New Mexico Pipeline Co. (TNMPC).

Please note the legal description listed on the C-103 appears to be the wrong location. Please correct and resubmit.

After reviewing the "Remediation/Cleanup Final Report" and subsequent NMOCD field reports, NMOCD recognizes the fact that there was existing contamination which made differentiating between old and new contamination difficult. NMOCD also understands and agreed that using a potable PID was a viable field method in determine this difference. The final report submitted indicated using this method, however there was no documentation included in the report that indicated what these actual values were.

The report indicates the PID was used to measure remediated soils to below 100 ppm which is allowed by our guidelines. However, the report does not include BTEX or PID values for bottom hole contamination left behind. Therefore (TNMPC) should submit documentation and/or sample the bottom of the excavations to verify and/or determine vertical extent for BTEX.

NMOCD has reviewed the report and noted that the third party lab results for the "west side" figure 1 was a composite of both bottom and sides at a value of 343 TPH. NMOCD guidelines require that both vertical and horizontal extent be checked separately. However due to the low value obtained the NMOCD will accept this if (TNMPC) agrees to check the BTEX values mentioned above.

Also noted was the fact the analytical results did not reflect which method was actually used and/or no chain-of-Custody was provided or how the samples were handled or preserved. Please provide this information or re-sample using proper protocols.

The final third party results on the total remediated soils indicates a level of 1440 ppm of TPH. The report also points out in the "Risk Assessment" section ground water is expected to be at approximately 90 feet. The report also implies that existing ground water "may already be severely contaminated by years of infiltration from oilfield production;" based on an area local USGS report. However, the report indicates the closest water well that may be affected is over two miles away. Therefore, any implication that the existing ground water is already contaminated must be verified on a site specific basis.

If (TNMPC) chooses to demonstrate this the NMOCD would require up- gradient monitor wells to be drilled to establish this claim, or other more site specific data.

Therefore, the final clean-up level exceeds the NMOCD guideline levels of 1000 ppm TPH and it is NMOCD's recommendation that (TNMPC) re-sample the remediated area or commit to a scheduled monitoring program to determine if In-Situ remediation is working. (TNMPC) may also submit a Risk Assessment Closure Plan based on a proven or acceptable method as allowed by NMOCD guidelines.

Figure 6 & 7 of the report apparently is a copy of lab reports for the hazardous waste characterization. The final report does not mention or reference these figures or mentions how the hazardous waste determination was determined. In addition there is no signature on the sheets from the Lab. Figure 7 included has metals for this location but has BTEX for another location. None of the results are provided with Chain-of-Custodies or sampling information, preservatives, handling etc.

Please provide how the hazardous waste determination was made along with the appropriate documentation.

In order for the NMOCD to properly evaluate (TNMPC's) closure plan for this site please resubmit a closure plan which address all of the above concerns and any other information such as plans for the final surface restoration, reseeding etc.

If you require any further assistance concerning this matter please do not hesitate to call (505-393-6161) or write.

Sincerely yours Wayne / rin

Wayne Price-Environmental Engineer

cc: Jerry Sexton-NMOCD District I Supervisor Roger Anderson-NM NMOCD Environmental Bureau Chief, Santa Fe

attachments-1

Submit 3 Copies to Appropriate District Office	State of New Mi Energy Minerals and Natural R	exico esources Department (Form C-103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 85240	OIL CONSERVATIO 310 Old Santa Fe Trail	N DIVISION , Room 206	WELL API NO.
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12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

REFERENCE - CROSS Timbers

TNM-49-95

RECEIVER

APR 1 5 1998

This is A FINAL CLOSUBE OF LOAK # TNN-49

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2	TYPE OR PRINT NAME	TELEPHONE NO.	
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	CONDITIONS OF APPROVAL, IF ANY:		

NEW MEXICO ENERGY AINERALS AND NATURA, RESOURCES DEPARTME

POST OFFICE BOX 1980 HOB8S, NEW MEXICO 88241-1980 (505) 393-6161

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March 07, 1996

Mr. Ernest J. Richarte Texas-New Mexico Pipe Line Co. (TNMPLC) P.O. Box 1027 Lovington, New Mexico 88260-1027

Re: Texas-New Mexico Pipeline Co. TNM-49-95 Cross Timbers 4" Leak Site.

Dear Mr. Richarte,

The New Mexico Oil Conservation Division (NMOCD) District I is in receipt of the Work Plan submitted by Safety & Environmental Solutions, Inc. on your behalf.

The submitted plan and its contents is hereby approved with the following conditions:

- 1. Call the NMOCD District I office 24 hours before the final bottom hole samples are taken so as to give the NMOCD opportunity to witness this event. Final samples will be analyzed pursuant to the NMOCD Guidelines.
- 2. If surface restoration is necessary, submit information along with closure information for approval.
- 3. Notify the NMOCD District I office of any significant changes or deviations from the work plan.
- 4. Please be advised that NMOCD approval does not relieve (TNMPLC) of liability should remaining contaminates pose a future threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (TNMPLC) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you require any further assistance concerning this matter please do not hesitate to call (505-393-6161) or write.

Sincerely yours, ape / a

Wayne Price-Environmental Engineer

cc: Jerry Sexton-NMOCD District I Supervisor (Roger Anderson-NM NMOCD Environmental Bureau Chief, Santa-Fe A ALC GLSUM Gary Wink-NMOCD District I Field Rep. II

attachments-1

Submit 3 Copies to Appropriate Distanct Office	State of New Mexico Energy, Minerals and Natural Resources Departm	ment Form C-10 Revised 1-	
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Work Plan Texas-New Mexico Pipeline Company Cross Timbers 4" Leak Site (TNM-49-95)

RECEIVER

FEB 2 6 1996

USU HUBBB OFFICE

703 E. Clinton Suite 103

Hobbs, NM 88240

(505) 397-0510

Safety & Environmental Solutions, Inc.

February 22, 1996

Work Plan Texas-New Mexico Pipeline Company Cross Timbers 4'' Pipeline Leak - Below the Caprock (Company Reference # TNM - 49-95)

Purpose

The purpose of this work plan is to present a systematic approach to the excavation, and remediation resulting from the liquid spill located in Lea County, New Mexico.

Background

Produced fluids were released from the storage tank connected to the Cross-Timbers 4" pipeline due to a failed check valve, which caused overflow of the storage tank onto the surrounding area.

Action Plan

The heavily affected soil has been excavated and placed on the side on plastic. The area of the spill has been composite tested and the TPH (Total Petroleum Hydrocarbons) level is 20,000 ppm. The surrounding area of old contamination has been composite tested and the the TPH level is 7500 ppm. The spoils piles have been composite tested and have a TPH level of 12,500 ppm. The spoils piles will be remediated with any remaining affected soil onsite, and blended to within New Mexico Oil Conservation guidelines for remediation of leaks, spills, and releases. The excavation will be backfilled and the site restored to original grade. This blending of the residual affected soil will:

- 1. Aid in the aeration of the residual affected soil.
- 2. Reduce the TPH to a level unlikely to move downward and contaminate additional soils.
- 3. Add indigenous microbes to the residual affected soil in order to biodegrade the residual hydrocarbons in a shorter length of time.

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The excavation to obtain additional media will be performed with a bulldozer, backhoe, grader or combination thereof, with a minimum of disturbance to the existing location. Safety & Environmental Solutions, Inc. will verify that the extent of contamination from the leak location has been determined by performing THP field tests using the Hanby soil extraction method conducted on soil samples from the area.

Soil samples will be obtained from the bottom and sides of the excavation as the remediation is performed. Once acceptable levels are achieved, the soil will be folded back into the excavation. blending it to assure replacement is wihin New Mexico Oil Conservation Division guidelines for leaks, spills, and releases. TPH field tests will be conducted on the blended soil. These tests results will verify that the soil is minimally affected (New Mexico Oil Conservation Divisions guidelines for leaks, spills, and release), and the appropriate documents will be filed requesting closure.

Site Safety

There are a number of health and safety concerns associated with the excavation of trenches at these types of sites. Compliance with the following OSHA standards will be required as necessary at the site:

- Trenching and Shoring 29 CFR 1926.650 653
- Hazwoper/Atmospheric Testing 29 CFR 1910.120
- Respiratory Protection 29 CFR 1910.134
- Personal Protective Equipment 29 CFR 1910.132 140

This general type of plan has been verbally approved by the Bureau of Land Management and the Oil Conservation Division in Lea County.

Standard Operating Procedures for Auger Sampling (if necessary)

Standard operating procedures (SOPs) were obtained from the Environmental Protection Agency, 1984, Characterization of Hazardous Waste Sites - A Methods Manual: Vol II. Available sampling methods. EPA/600/4-84-076.

This system consists of an auger bit, a series of drill rods, and a "T" handle. The auger bit is used to bore a hole to the desired sampling depth. Since this soil is expected to be of various types, the samples will be taken directly from the auger itself at the specified depths.

Procedure for Use

- 1. Clear the area to be sampled of any surface debris.
- 2. Begin drilling, periodically removing accumulated soils. This prevents accidentally brushing loose material back down the borehole when removing the auger or adding drill rods.
- 3. After reaching desired depth, slowly and carefully remove the auger, and collect sample from the auger.
- 4. Place sample in sample container. Check that a Teflon liner is present in the cap if required. Secure the cap tightly.
- 5. Label the sample container with appropriate sample tag. Complete all chain-of-custody forms and record in the field log book.
- 6. Perform field test or alternatively refrigerate and transport to laboratory.
- 7. Decontaminate equipment after use and between samples.

Standard Operating Procedures for Excavation Sampling

- 1. Collect undisturbed sample from the side of the excavation at the desired depth.
- 2. Follow steps 4-7 in the preceding instructions.

Standard Operating Procedures for Spill Cleanup

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Standard Operating Procedures (SOP's) were obtained from the New Mexico Oil Conservation Division "Guidelines for Remediation of Leaks, Spills and Releases" New Mexico Oil Conservation Division - August 13, 1993.

The source of the leak was stopped by repairing the failed check valve which caused the storage tank at the tank battery to overflow. Containment was performed by utilizing a vacuum truck to recover all free liquids.

The saturated soils present at the leak site were excavated, and placed on plastic beside the spill location. These soils will be remediated along with any residual contamination onsite.

Risk Assessment

The depth to ground water at this location is approximately 90 feet. This approximation is based on the drill log of the pumping well on location (U.S. Minerals Well No. 2 Section 33, Township 17 South Range 33 East, drilled on July 22, 1953). The water wells drilled in this range and township vary in depth from 150 to 245 feet. This water may already be severely contaminated by years of infiltration from oilfield production. (Ground-Water Report #6 - Geology and Ground-Water Conditions in Southern Lea County, New Mexico - United States Geological Survey) The nearest water well is located well over two miles away. Containment was accomplished within 310 feet of the original leak site, and there is no appreciable risk of contamination of the aquifer from ingress through the bore of the nearest water well. The nearest surface water is located greater than 10 miles away. There is no risk of affecting this surface water as a result of this leak.

The soil type beneath the leak area is Maljamar fine sands with some Pyote fine sands, soil profile PU in the USDA Soil Survey for Lea County, New Mexico. At 0-30 inches, this is light brown fine sand, brown when moist; single grain; loose when dry or moist, nonsticky and nonplastic when wet; many fine roots; neutral (pH 6.7), noncalcareous; clear boundary. At 30-40 inches this soil is fine sandy loam, strong brown when moist; weak, medium, prismatic structure; soft, very friable when moist, slightly sticky and slightly plastic when wet; many fine roots; clay coatings on sand grains; common organic stains; neutral (pH 6.9), noncalcareous; clear boundary. At 40-48 inches this soil is light brown fine sandy loam, brown when moist, moderate, medium, prismatic and weak, medium, subangular blocky structure. Soft, very friable when moist, slightly sticky and slightly plastic when wet; many fine roots; clay coatings on sand grains; common organic stains; neutral (pH 7.2), noncalcareous; clear boundary. At 40-48 inches this soil is light brown fine roots; clay coatings on sand grains; common organic stains; neutral (pH 7.2), noncalcareous; clear boundary. At 48-60 inches, pink fine sandy loam, light brown when moist; weak, fine granular structure; slightly hard, friable when moist, slightly sticky and slightly plastic when wet; common fine roots; neutral (pH 7.3), noncalcareous.

This leak occurred on a tank battery location which was already highly contaminated. The plume of this release will be affected by this prior contamination, and background TPH and BTEX levels in the area may be extremely high.

In summary, the risk posed to domestic or private groundwater supplies, surface water, and the environment is minimal when following the work plan outlined. The remediation of the affected soil to within New Mexico Oil Conservation Divisions guidelines for leaks, spills, and release should insure that detrimental environmental effects are minimized.

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able tool	s were used fr	om <u>1</u> 3	5 feet	t to	302	feet	. and from	feet to	
			-	DAT	TES		,		
)		Put t	o proc	lucing	July 22.	, 19.
The p	oroduction for	the first 2	4 hours was		bai	rels o	f fluid of which.	100_% was	oil:
mulsion;	% water	; and	% sediment.	-			Gravity, °Bé		
If gas	well, cu. ft.	per 24 hour	· · · · · · · · · · · · · · · · · · ·	· • =	Gallor	is gase	oline per 1,000 cu	. ft. of gas	
Rock	pressure, lbs.	per sq. in.	-*****						
	:	- •		EMPLO	OYEE	S			
0.	<u>C. Bean</u>		, Driller	•			<u>V. D. V</u>	alker	, D
E.	ri MaDorma	n	, Driller	: -					, D
			FOR	MATIC	N RE	CORI	<u> </u>		
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							······································		

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From Battery Looking South at East Spoils Pile (Old Contamination)





Middle Spoils Pile







Maxim Technologies, Inc. 1703 West Industrial Ave. P.O. Box 2150 Midland, Texas 79702 Phone: (915)683-3349 Fax: (915)688-0492

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33 West Industrial P.O. Box 2150 * Hidland, Texas 79701 *

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915/683-3349 FAX 915/686+0492

Client Eddia Gripp Texas New Mexico Pipe Line Co 1.0. Dex 60928 an Angelo, TX 75906

Client No. 6839100 Report No. MS-11-070 Report Date 12/06/95 16:54

البهن وتوافقه 915-944-2721 9-7019 Fax States and states

1 fant تجيد مرجع والمحيط 11/17/95 Date Received

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FEB 2 0 1098

U.C. L. HUBBS OFFICE

HAXIN

Reviewed By

ALLAN 8. JOHNSTON

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TCLP PREPARATION - SOLIDS

COLLAR OF



12/08/95 16:54 Client: Texas New Mexico Pipe Line Co

TEST RESULTS BY SAMPLE

Sample: 01A Cross Timbers 4", TMM 49-95 Collected:

Category: S

Test Henn	M- 44		detection	<u>Qate</u>	
HYDRIDE DIGESTICH	SHLAR TORY	Requit the	<u>its Limit</u>	Started Analyst	
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ICLP PERPARATION - INCIDES		11/2/95 04		1/22/95 VCR	
				1/20/05 KC	;
					References States and States and St
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					6
HIPRIDE DIGESTION	SH-846. 7051	1/22/95 041			
FREIRT DIGESTION	St-645. 1470	1/22/95 041			
ICLP PREPARATION - SOLIDS	SW-846. 1311	1/20/95 DAT	an a		•
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	and the second				en en segu
Test Man			Detection	late	
HYORIDE DISESTION		Servit Unt	1 Lieit S	Analyst	
NERCLIRY DIGESTION	JE-040, 7001 1.	L/22/95 DATE	11	22/95 VCR	

SV-846, 7470 11/22/95 DATE

SW-846, 1311 11/20/95 DATE

RECEIVEI FEB 2 6 1996 U CLI HUBBE

11/22/95 VCR

11/20/95 VCR

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ر ان میزد<u>د.</u> او چین**دندی**رد

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CARDINAL LABS

475 P01 MAR 06 11



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 75

PHONE (505) 326-4669 . 118 S. COMMERCIAL AVE. . FARMINGTON.

FINAL ANALYSIS REPORT

Company: Address: City/St: Project ID:	Safety Environmental Solutions 703 E. Clinton St. 103 Hobbs, New Mexico 88240 Texas New Mexico Pipeline Co.	Date: Lab ≱:	03/05/96 H2441
Sampled by: Sample Type:	DW Sample C	Date: ondition:	03/04/96 intact
Sample ID #1:	Cross Timbers		

HAZARDOUS WASTE CHARACTERIZATION

PARAMETER	<u>RESULT 1</u>	UNITS
Ignitability (Pensky-Martens Closed Cup)	>140	F

1.1

Quality Control	77.78
True Value QC	77.781.3
* Accuracy	n/r
Relative & Difference	n/r

METHODS: HWC - EPA SW 846-7.3, 7.2, 1010

Manuel Garbalena