

1RP 203

## CLOSURE REPORT

TEXAS - NEW MEXICO PIPE LINE COMPANY
TNM-97-10
LEA COUNTY, NEW MEXICO



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## CLOSURE REPORT

**TEXAS - NEW MEXICO PIPE LINE COMPANY** TNM-97-10 LEA COUNTY, NEW MEXICO

PREPARED FOR:

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February 24, 1998

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#### **EXECUTIVE SUMMARY**

The Texas - New Mexico Pipe Line Company (TNMPL) release site TNM-97-10 is located approximately 1.5 miles south of Monument in Lea County, New Mexico. The site is specifically located in Section 5, Township 20 South, Range 37 East. A site location map is presented as FIG. 1. The site is owned by Mr. Jimmy Cooper. Specific site details are presented on FIG. 2. This report summarizes closure activities performed at the project site during July of 1997.

Closure activities performed included the following:

- collection of soil samples from the initial excavation to determine hydrocarbon concentration levels;
- excavation and stockpiling of additional soils which exceeded closure levels;
- collection of confirmation samples in the excavated area;
- characterization of stockpiled soils;
- transportation and off-site landfarming of stockpiled soils:
- · backfilling the excavation with clean soils; and
- · grading and seeding of disturbed areas.

The following conclusions are based on field and laboratory data:

• The closure standards at the site were determined to be as follows:

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

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- Approximately 5,572 cubic yards of impacted soil was excavated, stockpiled, and landfarmed off-site.
- Confirmation soil samples at the site indicated TPH, benzene, and BTEX concentrations below closure standards.

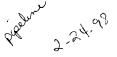
Based on the attainment of closure levels, we recommend the site be closed under New Mexico Oil Conservation Division (OCD) regulations.

#### **PURPOSE AND SCOPE**

The objective of the site closure activities was to obtain closure for the site based on OCD regulations. The following activities were performed to achieve this objective:

- determination of closure standards;
- · removal of impacted soil;
- characterization of removed impacted soil;
- confirmation sampling in the excavated area;
- · transportation and off-site landfarming of impacted soil; and
- backfill clean soil in the excavated area.

#### BACKGROUND INFORMATION



A hydrocarbon release was identified at the subject site on June 16, 1997. The following activities were performed as part of the current release response activities:

- Clean overburden soils including topsoil were removed and stockpiled on-site.
- Soils were excavated, stockpiled, and some soils were landfarmed off-site.

#### **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:

CRITERIA	APPLICABLE STANDARD	POINTS
Depth to Ground Water	Less Than 50 Feet	20 Points
Well Head Protection	Greater Than 1000 Feet to Water Source 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 are summarized below.

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

#### SOIL REMOVAL

Soils were removed from the bottom and sidewalls of the excavation during July of 1997. An estimated 5,572 cubic yards were removed from the existing excavation and stockpiled on-site for characterization prior to off-site landfarming.

#### SOIL CHARACTERIZATION

The soil stockpiles were characterized by collecting four composite soil samples for determination of TPH. Laboratory results indicated TPH concentrations of ND, 1,233 mg/kg, 2,092 mg/kg, and 2,976 mg/kg. Laboratory results are presented in APPENDIX A.

#### **CONFIRMATION SAMPLING**

Composite soil samples were collected from the excavation bottom and excavation sidewalls in Sections A through E and submitted for determination of TPH and BTEX concentrations using EPA Method SW846-8015M - Diesel Range Organics and SW846-8020, respectively. Based on the laboratory results of the sidewall and excavation bottom soil samples, additional soils were excavated and the sidewall and excavation bottom resampled. The sample locations are presented on FIG. 3.

Laboratory results of the final composite soil samples indicated the following:

SAMPLE LOCATION	MAX. TPH	MAX. BTEX	MAX. BENZENE
Final Soil Sidewall (mg/kg)	67	12.429	1.189
Soil Bottom (mg/kg)	31	0.648	ND

Soil laboratory results are summarized in TABLE I and graphically presented on FIG. 3.

#### SOIL DISPOSAL

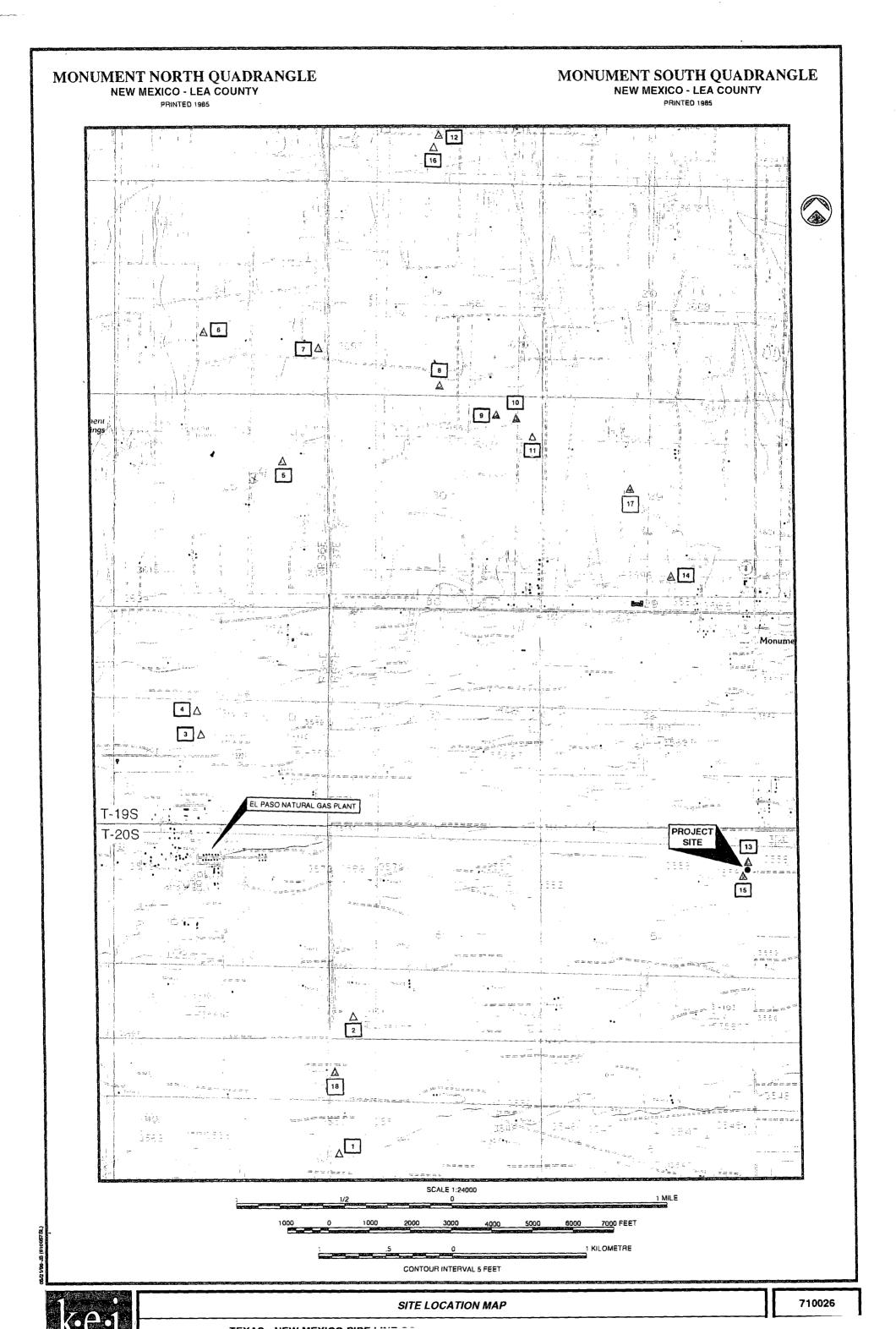
Authorization to transport and landfarm the impacted soils off-site was obtained from OCD. The impacted soils were transported to C&C Landfarm Incorporated located approximately two miles south of Monument, New Mexico. Disposal documentation is presented in APPENDIX B.

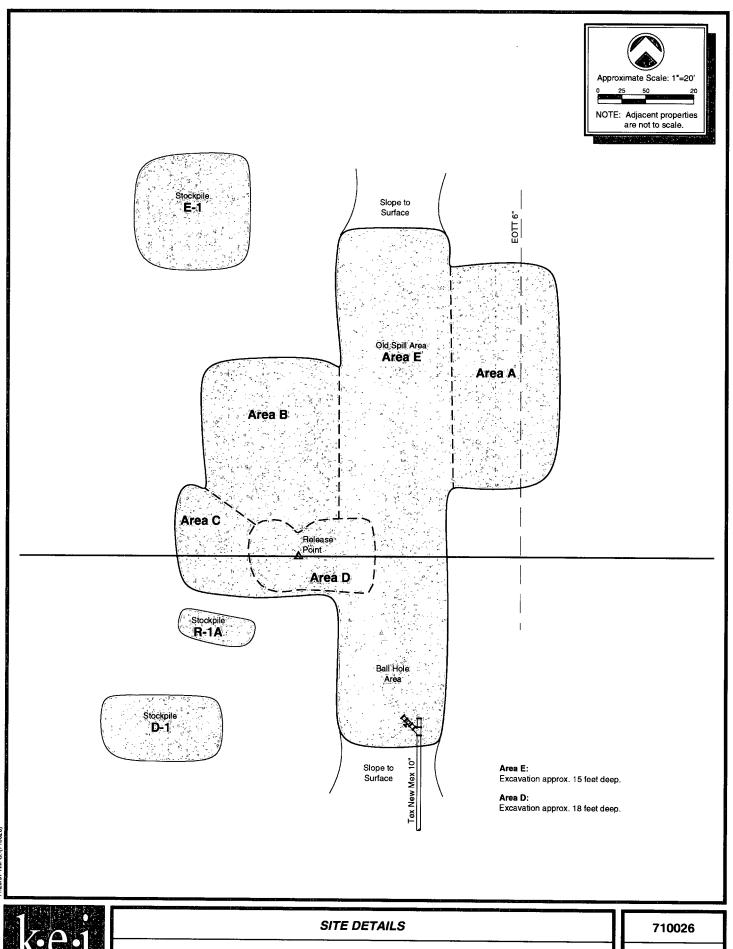
#### **BACKFILL AND RESTORATION**

Approximately 5,614 cubic yards of clean fill material was purchased from Mr. Cooper and placed in the excavation. The remaining non-impacted stockpiled soils from the initial release excavation activities were used to complete the backfilling operations. The area was graded and reseeded following backfilling.

#### **QA/QC PROCEDURES**

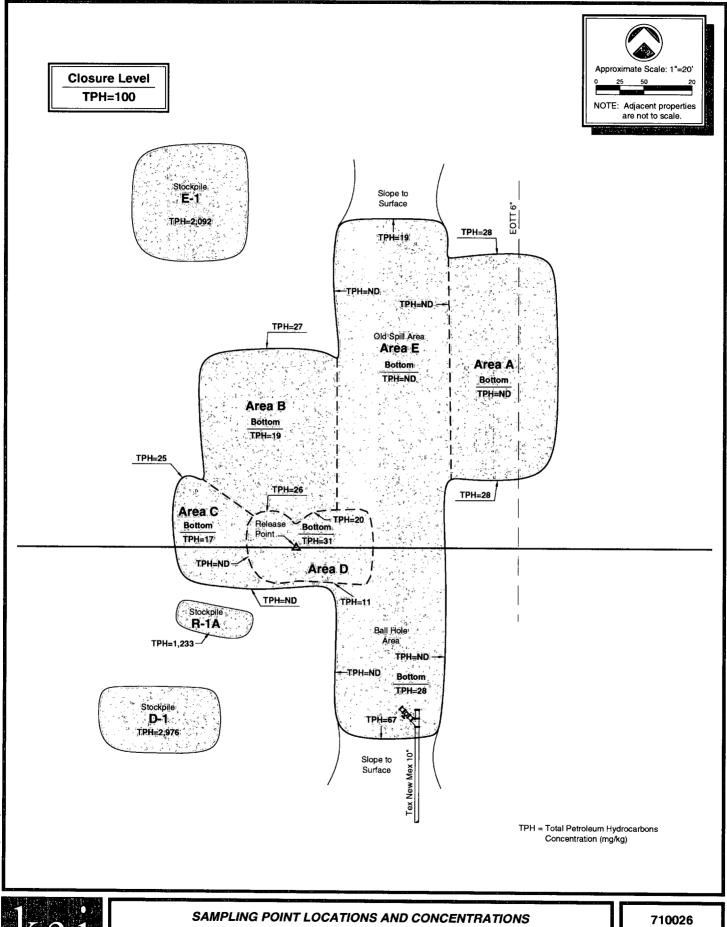
The soil samples collected were placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity with soil to limit the amount of head-space present. Each container was labeled and placed on ice in an insulated cooler. The cooler was sealed for shipment to Environmental Lab of Texas, Inc. in Odessa, Texas for determination of BTEX and TPH concentrations using EPA Method SW846-8020, 5030 and SW846-8015M Diesel Range Organics, respectively. Proper chain-of-custody documentation was maintained throughout the sampling process.





**TNMPL** TNM - 97- 10 **LEA COUNTY, TEXAS** 

FIG 2



**TNMPL** TNM - 97- 10 **LEA COUNTY, TEXAS** 

FIG 3

#### **GENERAL NOTES**

ND -Indicates constituent was not detected above the method detection limit.

Indicates sample was not submitted for determination of specified constituent.

Method detection limits:

Soil:

TPH - 10 mg/kg

BTEX - 0.100 mg/kg

Laboratory test methods: BTEX - EPA Method SW846-8020, 8030

TPH - SW846-8015M Diesel Range Organics

#### **TABLE I**

#### SUMMARY OF LABORATORY RESULTS - SOIL EXCAVATION ACTIVITIES TNM-97-10 LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	XYLENES (mg/kg)	BTEX (mg/kg)	TPH (mg/kg)
Excavation Sampling							
Section A North Sidewall	07/08/97						28
Section A South Sidewall	07/08/97						28
Section A Excavation Bottom	07/08/97						27
Section B North Sidewall	07/08/97						27
Section B South Sidewall	07/08/97						26
Section B Excavation Bottom	07/08/97						26
Section C North Sidewall	07/08/97						25
Section C South Sidewall	07/08/97						ND
Section C Excavation Bottom	07/08/97						ND
Bellhole Sidewall	07/08/97						223
Bellhole Bottom	07/08/97						28
Section A Excavation Bottom	07/14/97	ND	0.120	ND	0.192	0.312	163
Section B Excavation Bottom	07/14/97	ND	ND	0.117	ND	0.117	290
Section C Excavation Bottom	07/14/97	ND	ND	ND	ND	ND	17
Section D Excavation Bottom	07/14/97	ND	ND	ND	ND	ND	31
Section D West Sidewall	07/14/97	ND	ND	ND	ND	ND	216
Section D South Sidewall	07/14/97	1.189	2.425	1.368	7.447	12.429	11
Section D North Sidewall	07/14/97	0.143	0.155	0.138	0.654	1.090	20
Section E North Sidewall	07/14/97	ND	0.149	0.122	0.594	0.865	146
Section E East Sidewall	07/14/97	ND	ND	ND	0.118	0.118	309
Section E Excavation Bottom	07/14/97	ND	0.225	0.157	1.038	1.420	469
Bell Hole Area South Sidewall	07/14/97	ND	0.129	ND	0.197	0.326	67
Bell Hole Area West Sidewall	07/14/97	ND	ND	ND	ND	ND	720
Bell Hole Area East Sidewall	07/14/97	ND	ND	ND	0.111	0.111	650
Soil Characterization Sampling					·		·
Stockpile R-1	07/08/97						ND
Stockpile E-1	07/14/97						2,092
Stockpile D-1	07/14/97						2,976
Stockpile R-1A	07/14/97						1,233
Confirmation Sampling	<u> </u>	<del> </del>			L		<u> </u>
Bell Hole Area West Sidewall	07/22/97	0.395	0.100	ND	0.224	0.719	ND <sup>(1)</sup>
Bell Hole Area East Sidewall	07/22/97	ND	ND	ND	ND	ND	ND <sup>(1)</sup>
Section E Excavation Bottom	07/22/97	ND	ND	ND	0.428	0.428	ND <sup>(1)</sup>
Section E East Sidewall	07/22/97 ND		ND	ND	ND	ND	ND <sup>(1)</sup>
Section E North Sidewall	07/22/97	0.153	0.168	0.224	ND	0.545	19 <sup>(1)</sup>
Section E West Sidewall	07/22/97	ND	ND	ND	ND	ND	ND <sup>(1)</sup>
Section D West Sidewall	07/22/97	0.291	0.143	ND	0.271	0.705	ND <sup>(1)</sup>
Section A Excavation Bottom	07/22/97	0.250	0.109	ND	0.289	0.648	ND <sup>(1)</sup>
Section B Excavation Bottom	07/22/97	0.178	ND	ND	ND	0.178	19 <sup>(1)</sup>

NOTES:

<sup>1.</sup> Indicates the retest of excavation sidewall samples collected July 14, 1997, following overexcavation of additional soils.

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI

ATTN: THERESA NIX 5309 WURZBACH SUITE 100 SAN ANTONIO, TEXAS 78238

FAX: 210-680-3763

Receiving Date: 07/16/97 Sample Type: SOIL. Project #: 710026

Project Location: TNM 97-10

Analysis Date: 07/16/97 Sampling Date: 07/14/97 Sample Condition: Intact/Iced

	•						TPH DRO
		BENZENE	TOLUENE	ETHYLBENZENE	m,p-XYLENE	o-XYLENE	C10-C28
ELT#	FIELD CODE	· mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
11754	Section A: Bottom Hole	<0.100	0.120	<0.100	0.192	<0.100	163
11755	Section B; Bottom Hole	<0.100	<0.100	0.117	<0.100	<0.100	290
11756	Section C; Bottom Hole	<0.100	<0.100	<0.100	<0.100	<0.100	17
11757	Section D; Bottom Hole	<0.100	<0.100	<0.100	<0.100	<0.100	31
11758	Section D; West Wall	<0.100	<0.100	<0.100	<0.100	<0.100	216
11759	Section D; South Wall	1.189	2.425	1.368	5.077	2.370	11
11760	Section D; North Wall	0.143	0.155	0.138	0.364	0.290	20
11761	Section E; North Wall	<0.100	0.149	0.122	0.360	0.234	146
11762	Section E; East Wall	<0.100	<0.100	<0.100	0.118	<0.100	309
11763	Section E: West Wall	<0.100	0.158	0.150	0.434	0.228	241
11764	Section E; Bottom Hole	<0.100	0.225	0.157	0.680	0.358	469
11765	Bell Hole Area; South Wall	<0.100	0.129	<0.100	0.197	< 0.100	67
11766	Bell Hole Area; West Wall	<0.100	<0.100	<0.100	<0.100	<0.100	720
11767	Bell Hole Area; East Wall	<0.100	<0.100	<0.100	0.111	<0.100	650
11768	Stockpile E-1						2,092
11769	Stockpile D-1						2,976
11770	Stockpile R-1A						1,233
	% IA	89	88	89	88	90	111
	% EA	104	105	105	103	106	113
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	11
	RPD	9	10	12	11	13	10

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

Michael R. Fowler

Date

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## ENVIRONMENTAL LAB OF , INC.

JUL 2 9 1997

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ATTN: THERESA NIX 5309 WURZBACH SUITE 100 SAN ANTONIO, TEXAS 78238 FAX: 210-680-3763

Fax: 505-396-2754

Receiving Date: 07/23/97 Sample Type: SOIL Project #: 710026

Project Location: TNM 97-10

Analysis Date: 07/23/97 Sampling Date: 07/22/97 Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	TPH (DRO) C10-C28 mg/kg
11844 11845 11846 11847 11848 11849 11850 11851 11852	Bell Hole Area: West Wall Bell Hole Area: East Wall Section E: Bottom Hole Section E: North Wall Section E: West Wall Section D: West Wall Section A: Bottom Hole Section B: Bottom Hole	0.395 <.100 <.100 <.100 0.153 <.100 0.291 0.250 0.178	0.100 <.100 <.100 <.100 0.168 <.100 0.143 0.109 <.100	<.100 <.100 <.100 <.100 0.224 <.100 <.100 <.100	0.119 <.100 0.266 <.100 <.100 <.100 0.159 0.168 <.100	0.105 <.100 0.162 <.100 <.100 <.100 0.112 0.121 <.100	<10 <10 <10 <10 19 <10 <10 19
	% IA % EA BLANK	102 90 <0.001	102 90 <0.001	105 92 <0.001	100 87 <0.001	103 91 <0.001	85 108 <10

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

Michael B Fowler

) ~ Date

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District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178

District IV - (505) 827-7131

1000 Rio Brazos Road

Aztec, NM 87410

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

#### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: Non-Exempt: Fr 2 PRIC	4. Generator TAMPL
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site TWM - 97-10
2. Management Facility Destination CLC Land Farm Inc.	6. Transporter Turner Trucking
3. Address of Facility Operator Zmi South Mongment Nm	8. State N.m.
7. Location of Material (Street Address or ULSTR) Sec 5. T 20 5. R 37	E Lea County
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.  All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consi	gned for transport.
PRIEF DESCRIPTION OF MATERIAL:	
Crude oil Affected Soil	SUL 24 1857 RECEIVE
Estimated Volume 4700 cy Known Volume (to be entered by the SIGNATURE: A Waste Management Facility Authorized Agent TYPE OR PRINT NAME: Jimme T. Cooper	
(This space for State Use)  APPROVED BY: TITLE: FAUL	n Ema DATE: 7/29/77

### **CERTIFICATE OF WASTE STATUS**

### NON-EXEMPT WASTE MATERIAL

Originating Location: TNM 5: to 71-10 DE4/NE4 5 3, T203, R3] E
Source: Crude oil BPPeline SPILL
Disposal Location: CAC Land Farm Inc. 2m: South Monument Nm
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 <u>IRAS-Nim</u> , Pipe Line Corconcur with the status of the waste from the subject site.
NAME John A. Savoie
TITLE/AGENCY Senior Tech
ADRESS P.D. Box 1030 Jal, Nim. 88252
ADRESS P.D. Box 1030 Jal, Nim. 88252  SIGNATURE 9. 24-91  DATE 7-24-91