

RELEASE REPORT

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to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
310 Old Santa Fe Trail, Room 206
Santa Fe, New Mexico 87503

WELL API NO.

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL WELL ☐ GAS WELL ☐ OTHER Pipeline

2. Name of Operator
Texas-New Mexico Pipeline Co.

3. Address of Operator
P.O. Box 60028 San Angelo TX.

4. Well Location
Unit Letter _____ : _____ Feet From The _____ Line and _____ Feet From The _____ Line

Section 36 Township 17 S Range 34 E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

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.

See Closure Attachment

TNM PLCO.

Buckeye Leak

TNM-95-54

JUL 08 1996

OLD HUBB
OFFICE

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE John A. Savoie TITLE Senior Tech DATE 7/8/96

TYPE OR PRINT NAME John A. Savoie TELEPHONE NO. _____

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



Safety & Environmental Solutions, Inc.

Remediation/Cleanup Final Report

**Texas-New Mexico Pipeline Co.
Buckeye Leak
TNM - 95 - 54**

**JUL 08 1998
OCC HOBBS
OFFICE**

Safety & Environmental Solutions, Inc.

May 22, 1996

Closure Report Texas-New Mexico Pipeline Company Buckeye Leak TNM - 95 - 54

The purpose of this report is to request closure of the crude oil spill remediation project know as the Buckeye Leak (TNM - 95 - 54) for Texas-New Mexico Pipeline Company.

Background

Crude oil leak was discovered in the SE1/4 SE1/4 Section 36 Township 17 S, Range 34 E, Lea County, New Mexico in March 1996. The leak was excavated and repaired at the time of discovery. The crude oil spread from an 8" transport line and covered an area approximately 150' X 90'. On April 16, 1996, Safety & Environmental Solutions, Inc. (SES) was engaged to remediate this leak site.

Site Characterization

The depth to ground water in this area is approximately 75-100 feet. (Source: Ground Water Conditions in Northern Lea County, New Mexico by Sidney R. Ash - **Hydrologic Investigations - Atlas HA-62 - U.S. Geological Survey**). See attached **Figure A**. The maximum depth of the excavation (bottom hole depth) was approximately 2 - 4 feet. Third party laboratory testing confirmed that soil below this depth was minimally affected. (See attached analysis **Figure E**). The nearest surface water is located greater than 5 miles away. There is no risk of affecting this surface water as a result of this leak.

The soil in this area is Kimbrough-Lea Complex on top of thick layer of caliche rock mix. The soil profile is KU in the USDA Soil Survey for Lea County, New Mexico. At 0-18 inches this is a dark brown clay loam. It is black when moist, sticky and plastic when wet; contains many fine roots. At 18-24 inches this soil is caliche loam. Below 24 inches is a layer of indurated caliche rock for several feet. (Source: **Soil Survey of Lea County, New Mexico - United States Dept. of Agriculture, Soil Conservation Service**) See attached **Figure B**.

In summary, the risk posed to domestic or private groundwater supplies, surface water, and the environment should be minimal following the previously outlined work plan. The remediation

Safety & Environmental Solutions, Inc.

of the affected soil to within New Mexico Oil Conservation Divisions guidelines for leaks, spills, and releases should insure that detrimental environmental effects were minimized.

Standard Operating Procedures for Spill Cleanup

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 pipeline. Containment was performed by utilizing a vacuum truck to recover all free liquids. The saturated soils present at the leak site were excavated.

Work Performed

The heavily affected soil was excavated and placed to the side on plastic on the south side of the excavation. . RCRA characteristic ignitability was run and the material excavated was found to be non-hazardous. See attached analysis **Figure D**.

April 16, 1996

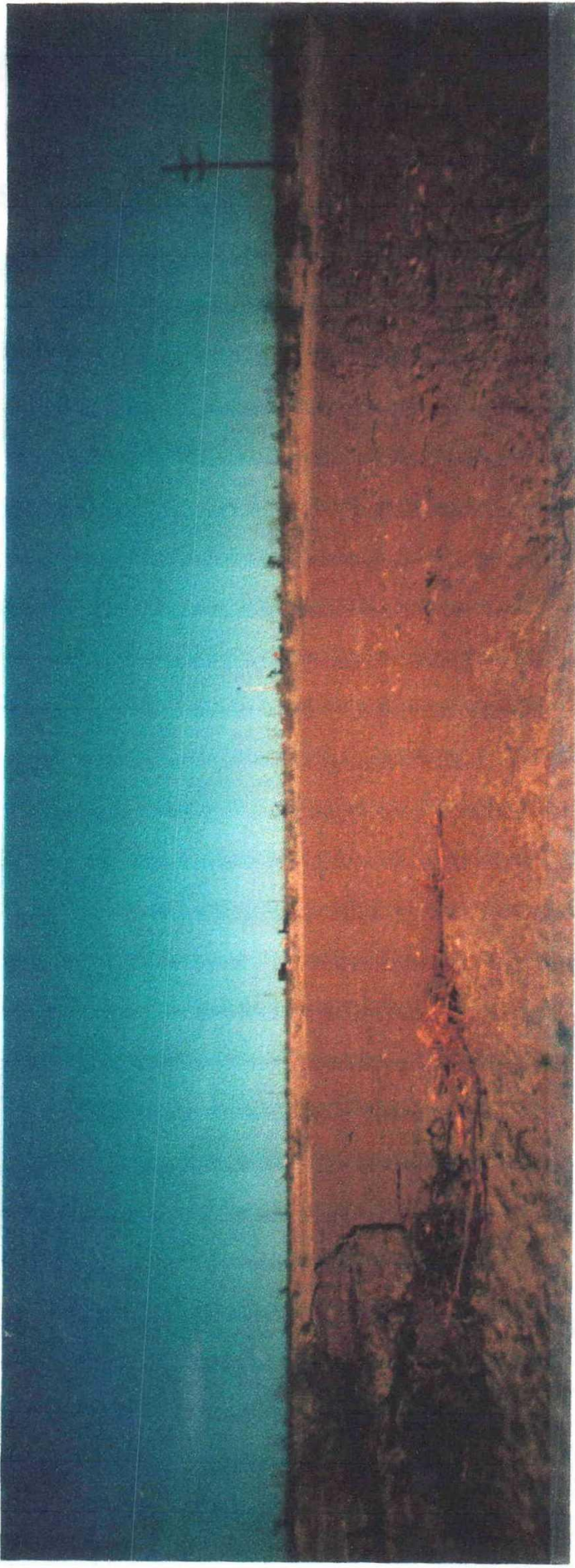
The remediation excavation was begun. The spoil piles were pushed out of the existing excavation to determine the extent of the affected soil. The spoils piles were blended with the adjacent clean soil to within New Mexico Oil Conservation guidelines (5000 ppm). (See attached Photos) Blending was initiated on the west side of the road.

April 17, 1996

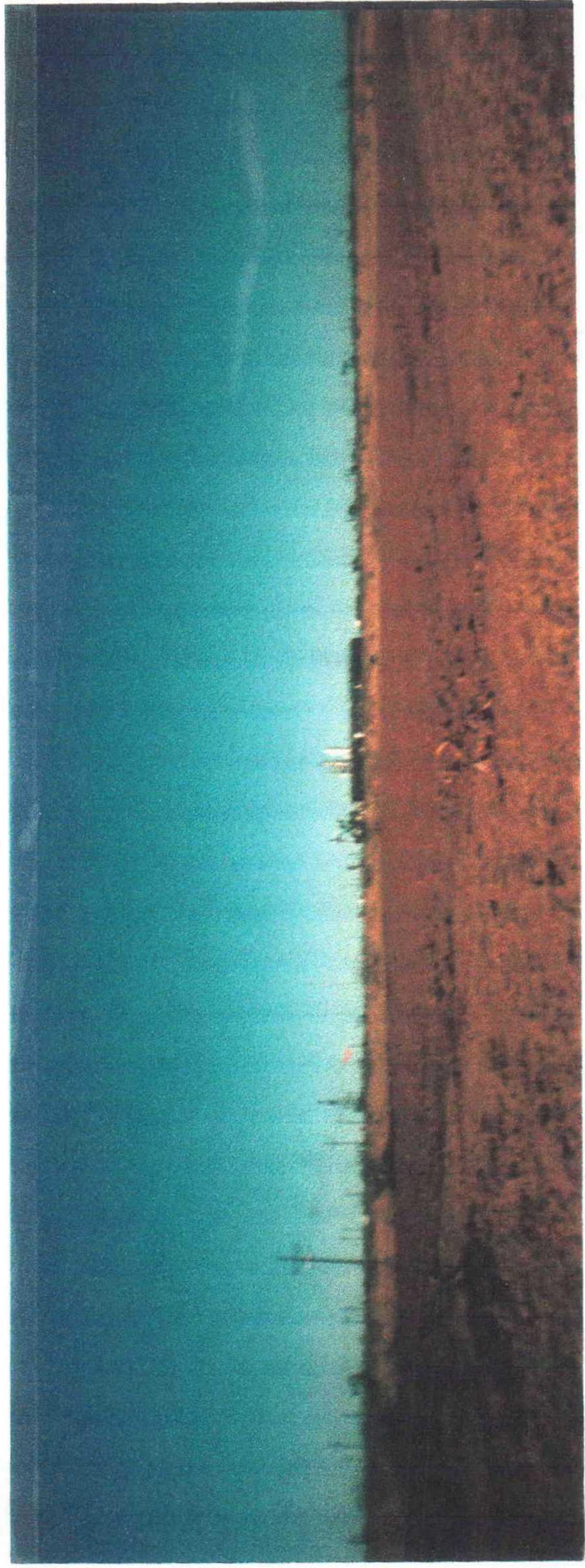
TPH test was performed on a composite sample from the bottom of excavation at a depth of 2-3' with results of 400 ppm. The TPH results of the blended soil batches were 1500 ppm, 1250 ppm, and 1500 ppm respectively. (See attached field notes).

April 18, 1996

A composite sample was taken from blend batch #3 , the TPH results were 1500 ppm. The excavation was backfilled on the same date and the site restored to its original grade. That same day a final composite sample was taken from site which yielded TPH results of 500 ppm. This was also confirmed by a third party laboratory. (See attached analysis report **Figure C**)



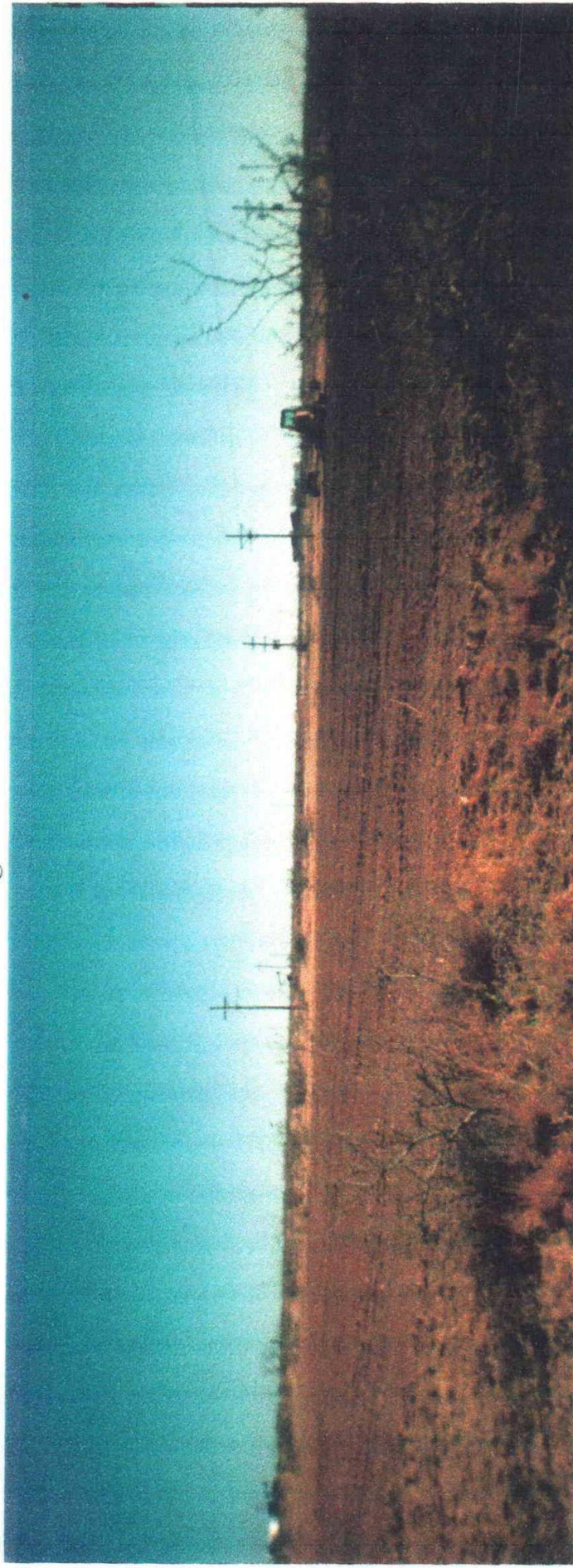
Entire Location Looking East to West - Finished Product



Entire Location Looking North to South - Finished Product



Entire Location Looking West to East - Finished Product



Entire Location Looking South to North - Finished Product

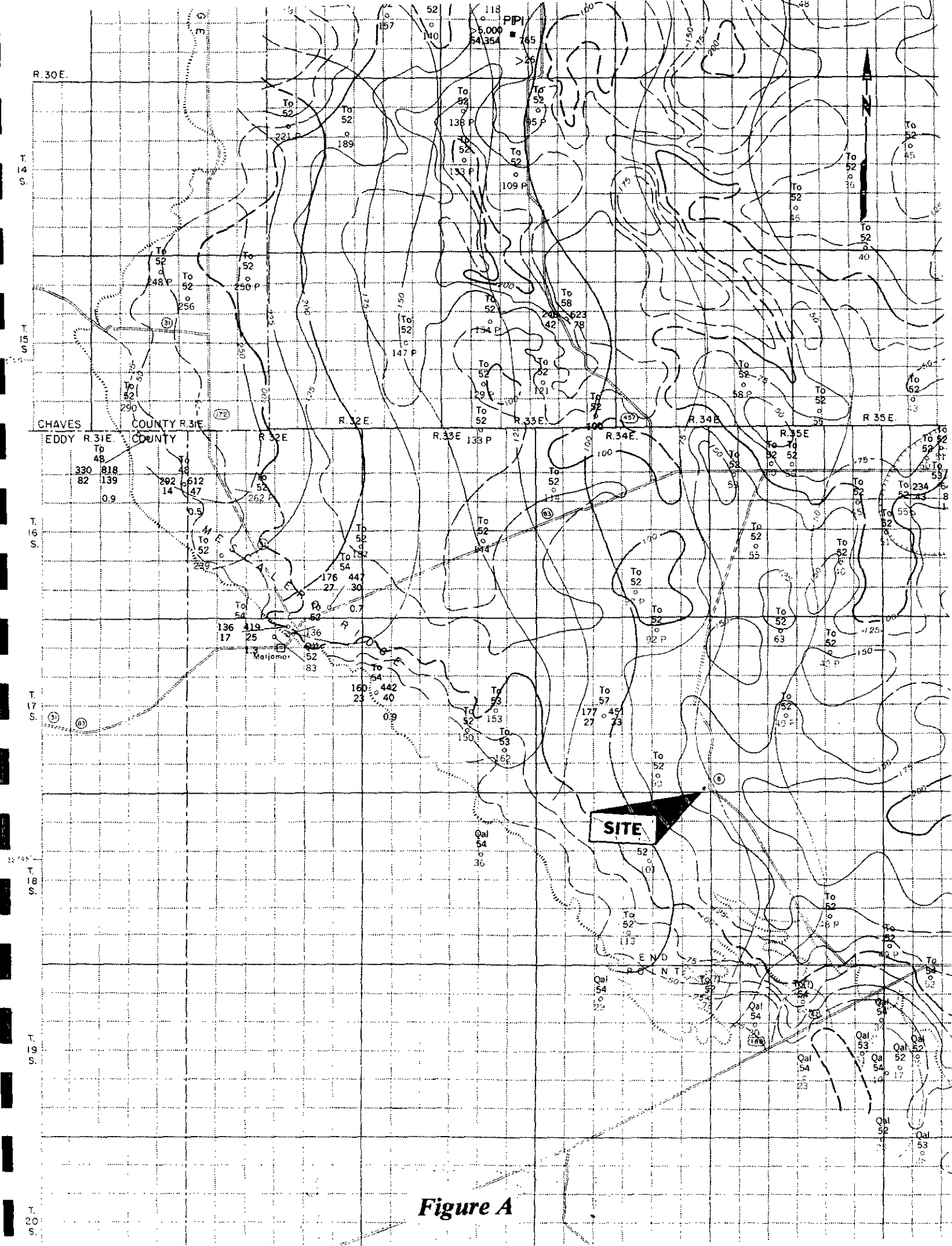
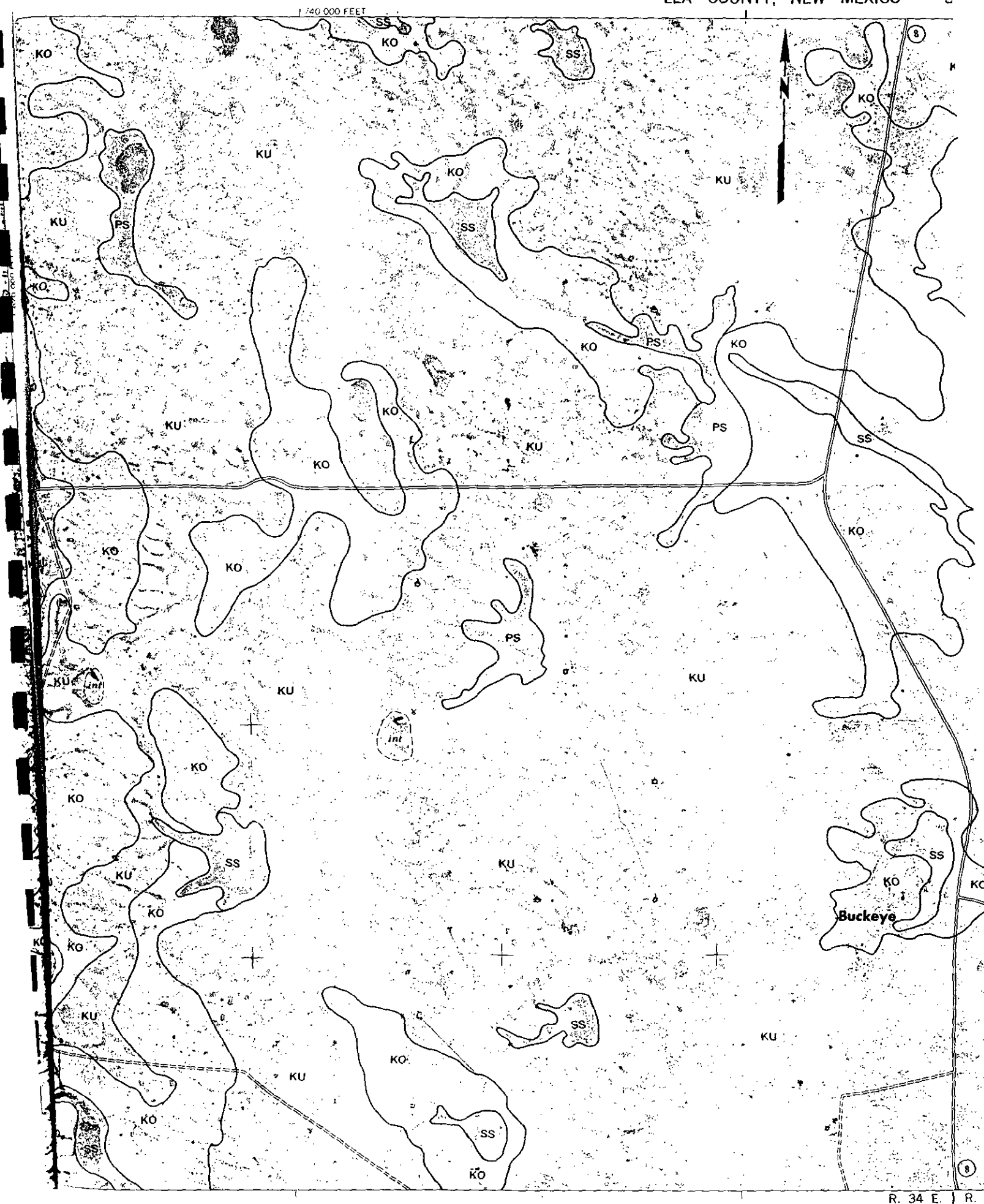


Figure A



6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
P. O. Box 1613
Hobbs, NM 88240

May 13, 1996
Receiving Date: 05/10/96
Sample Type: Soil
Project No: NA
Project Location: Buckeye
COC# 10


Extraction Date: 05/10/96
Analysis Date: 05/13/96
Sampling Date: 05/09/96
Sample Condition: Intact & Cool
Sample Received by: SH
Project Name: Buckeye

TA#	FIELD CODE	TRPHC (mg/kg)
T52140	Final Composite	2,880
QC	Quality Control	98

REPORTING LIMIT 10

RPD	1
% Extraction Accuracy	104
% Instrument Accuracy	98

METHODS: EPA SW 846-3550 High Level; EPA 418.1.
CHEMIST: AG
TRPHC SPIKE: 250 mg/kg TRPHC.
TRPHC SPIKE: 100 mg/L TRPHC.



Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonell

5-13-96

DATE

TRACE ANALYSIS, INC.

A Laboratory for Advanced Environmental Research and Analysis

Figure C

6701 Aberdeen Avenue Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: (505) 397-0510

FAX# (505) 343-4388

Project #:	Safely + Environmentally Sol.
Project Name:	703 E. Clinton Suite 103 Hobbs

Project Name:

Sampler Signature:

0-1576

[illegible]

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
Attention: Dyke Browning
703 E. Clinton, Suite 103
Hobbs, NM 88240


April 4, 1996
Receiving Date: 04/02/96
Sample Type: Soil
Project No: TNMPICo-Buckeye
Project Location: NA

Prep Date: 04/04/96
Analysis Date: 04/04/96
Sampling Date: 04/01/96
Sample Condition: Intact & Cool
Sample Received by: SH
Project Name: NA

TA#	FIELD CODE	IGNITABILITY
T50452	TNMPICo-Buckeye	Non-ignitable

RPD 0

METHODS: EPA SW 846-2.1.1.



Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonell

4-4-96

DATE


TRACE ANALYSIS, INC.

A Laboratory for Advanced Environmental Research and Analysis

Figure D

6701 Aberdeen Avenue Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #:

Dyke Browning

Company Name & Address:

FAX #:

ANALYSIS REQUEST

SPECIAL HANDLING

Project #:

Project Name :

Project Location:

Sampler Signature:

Company Name & Address:		Project #:		Project Name:	
		TNMPLC-Buckeye		FAX (515) 393-4388	
Project Location:		Sampler Signature:			
LAB # (LAB USE ONLY)		FIELD CODE		# CONTAINERS	
				Volume/Amount	
				WATER	
				SOIL	
				AIR	
				SLUDGE	
				HCL	
				HNO3	
				ICE	
				NONE	
				DATE	
				TIME	
				BTEX, MTBE	
				TPH	
				Total Metals Ag As Ba Cd Cr Pb Hg Se	
				TCLP Metals Ag As Ba Cd Cr Pb Hg Se	
				TCLP Volatiles	
				TCLP Semi Volatiles	
				RCI	
				8240 / 8260	
				8270	
				Turn around # of days	
				Fax ASAP	
				Hold	

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298


ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
Attention: Dee Whatley
703 E. Clinton, Suite 103
Hobbs, NM 88240

April 23, 1996
Receiving Date: 04/20/96
Sample Type: Soil
Project No: TNMP Buckeye
Project Location: Buckeye

Extraction Date: 04/20/96
Analysis Date: 04/22/96
Sampling Date: 04/19/96
Sample Condition: Intact & Cool
Sample Received by: BL
Project Name: Bottom

TA#	FIELD CODE	TRPHC (mg/kg)
T51453	Buckeye Bottom	2,160
QC	Quality Control	101
REPORTING LIMIT		10
RPD		2
% Extraction Accuracy		91
% Instrument Accuracy		101

METHODS: EPA SW 846-3550 High Level; EPA 418.1.
TRPHC SPIKE: 250 mg/kg TRPHC.
TRPHC SPIKE: 100 mg/L TRPHC.



Director, Dr. Blair Leftwich
Director, Dr. Bruce McDonell

4-23-96

DATE


TRACE ANALYSIS, INC.

A Laboratory for Advanced Environmental Research and Analysis

Figure E

TNMPC

Product
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Product
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4-16-96 Buckeye Location

7:00 AM Arrived on Location

Walton Arrived w/ Blade unloaded
Went Back To yard To pick
up Dozer

7:30 AM Started To cut away at
spoils pile so I could get a
good TPH Test • To estimate
how much ground I would need
To cut To Blend with.

8:00 AM TPH Test on Spoils pile
showed approximately 10,000 ppm

2-Test

9:30 AM Walton arrived on loc.
with Dozer + Live Finder

12:00 PM Shut Down Due
To H₂S blowing across
Location

4-17-96

7:00 AM arrived on Location

Dozer + Grader Blending
spoils pile Backhoe digging
out Contamination around lines.

10:00 AM Composite Sample Taken

From Blend Batch #1 Test results
were 1500 ppm TPH

10:30 AM Composite Sample Taken
From Blend Batch #2 Test

Results were 1250 ppm TPH

11:00 AM Composite Sample
Taken From Entire excavation
Sides & Bottom Test results
were 400 ppm TPH From 12"
To 24" in depth

11:30 AM Blending

3:00 PM Shut Down

4-18-96

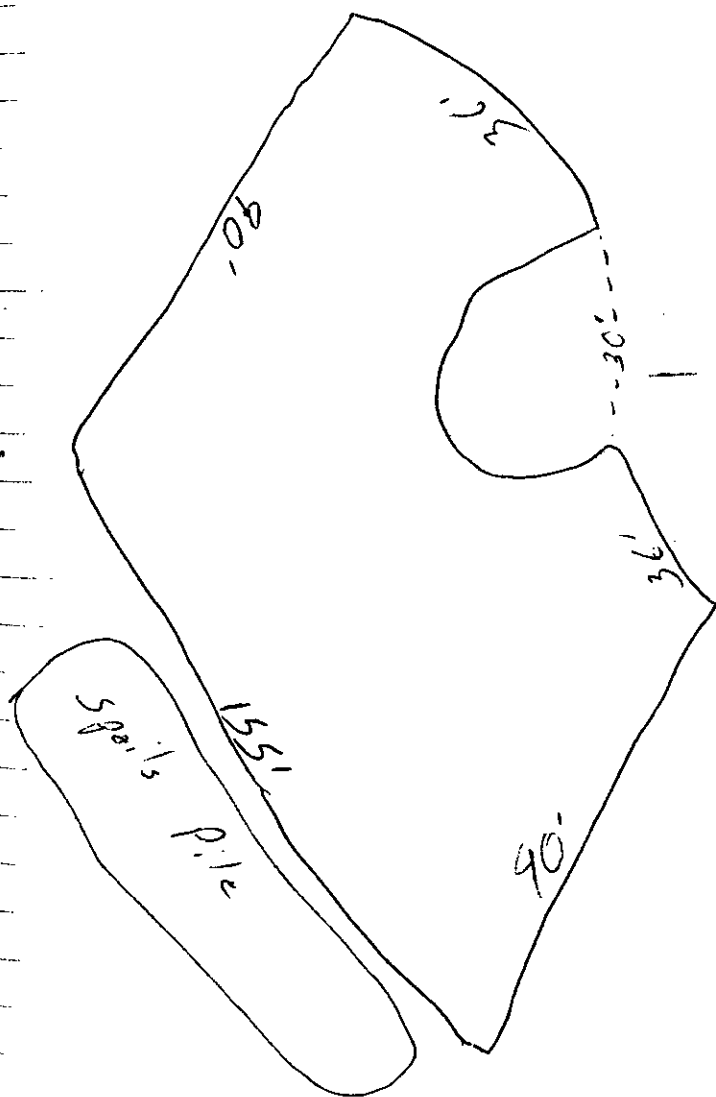
7:00 AM Arrived on Location
Composite Sample Taken From
Blend Batch #3 Test results
were 1500 ppm TPH 2-Test

8:00 AM Filling in excavation
w/ Blend Batch #3 & smoothing
up Location

10:00 AM Final Composite
Test Show 500 ppm TPH

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Original Site



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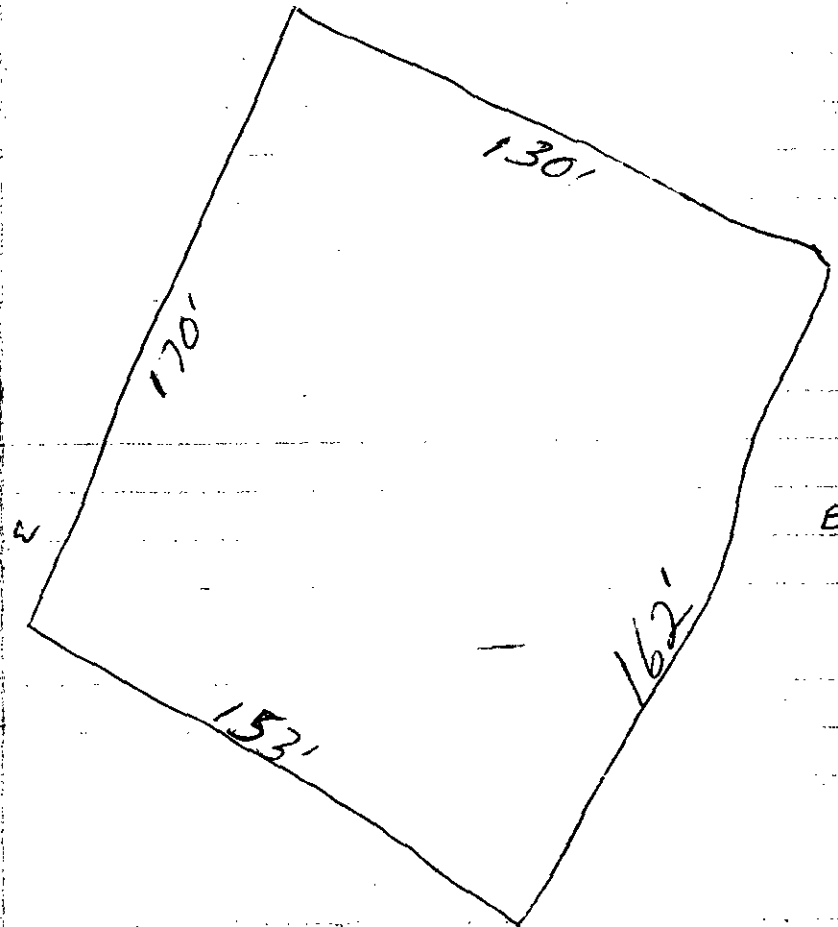
T

on

links

N

Finished
Product



S

Pic. #1 Entire Loc. Looking
E To W

Pic. #2 Entire Loc. Looking
N To S

Pic. #3 Entire Loc. Looking
W To E

Pic. #4 Entire Loc. Looking
S To N

E

3 - days
8 - Hanby TPH Test
2 - Trace Analysis Test
5 - 68 RT Mileages



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

August 27, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-269-269-198

Mr. John A. Savoie
Texas New Mexico Pipeline Company
P.O. Box 60028
San Angelo, Texas 76906

RE: BUCKEYE SPILL REMEDIATION (TNM-54-1995)
LEA COUNTY, NEW MEXICO

Dear Mr. Savoie:

The New Mexico Oil Conservation Division (OCD) has reviewed Texas-New Mexico Pipe Line Company's (TNMPLC) July 8, 1996 "REMEDIATION/CLEANUP REPORT, TEXAS - NEW MEXICO PIPELINE COMPANY, BUCKEYE LEAK, TNM-95-54". This document contains the results of TNMPLC's remediation of a crude oil pipeline spill in sec. 36, T17S, R34E, NMPM, Lea County, New Mexico.

The OCD has the following comments and requests for information regarding the above referenced document.

1. Please provide the Unit letter or 1/4, 1/4 section listing of the spill location.
2. Please provide the benzene, toluene, ethylbenzene and xylene (BTEX) soil contaminant concentrations from the bottom of the excavated area and the final BTEX soil concentrations for the landfarmed soils.
3. There are no laboratory analytical data sheets and associated quality assurance/quality control data for the total petroleum hydrocarbon (TPH) analyses referenced in the text. Please provide this information.
4. The TPH laboratory analyses listed in Figure C and Figure E are not discussed in the text or the field notes. Please clarify what these samples represent.

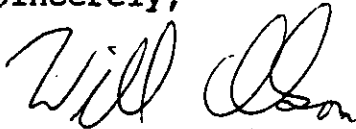
Mr. John A. Savoie
August 27, 1996
Page 2

5. For your information, the OCD's remediation level for onsite remediation of contaminated soils is not a blanket 5,000 mg/kg of TPH. The OCD's recommended remediation level for onsite remediation of contaminated soils is 10 mg/kg benzene, 50 mg/kg BTEX and a variable level of TPH based upon the OCD's ranking criteria for the site.

Submission of this information will allow the OCD to complete a review of the above referenced remediation report.

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

Sincerely,



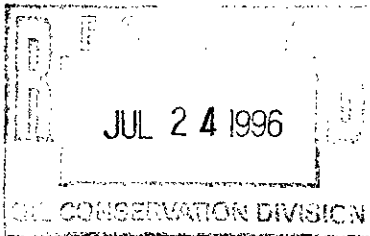
William C. Olson
Hydrogeologist
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor
Wayne Price, OCD Hobbs Office

PS Form 3800, April 1995	
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NEW MEXICO ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT

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



NMOCD INTER-OFFICE CORRESPONDENCE

TO: Bill Olson-NMOCD Hydrogeologist-Environmental
Bureau.

From: Wayne Price-Environmental Engineer *Wayne Price*

Date: July 22, 1996

Reference: Texas-New Mexico Pipeline Co.
Crude Oil Leak-TNM-95-54

Subject: C-103 Remediation/Cleanup Final Report

Comments:

Dear Bill,

Please find enclosed a Non-Exempt spill for approval.

cc: Jerry Sexton-NMOCD District I Supervisor
NM State Land Office-Hobbs office.

attachments-1