District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Risk defined extent of plune

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

THEMEDIAL	ION AND CLOSURE REPO	RT 61891077
Operator: Meridian  Address: 30-045		DEC 2002
Facility Or: Filan #1, Meter 70625 Well Name		Div. of
Location: Unit or Qtr/Qtr Sec_H_Sec	5T27R8Cou	inty_San Juan
Pit Type: Separator Dehydrator	Other <u>Drip</u>	
Land Type: BLM X, State, F	ee Other	
Pit Location: Pit dimensions: length 18' (Attach diagram) Reference: wellhead X Footage from reference: 108	other	<del></del>
Direction from reference.	Degrees X East No.	of
	W	est South
Depth To Ground Water		
Depth To Ground Water (Vertical distance from	Less than 50 feet 50 feet to 99 feet	(20 points)
<del>-</del>	Less than 50 feet	
(Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) ( 0 points) <u>0</u> Yes (20 points)

Date Remediation Started	l: <u>08/04/94</u>	Date completed:	08/04/94
Remediation Method: E	excavation X	Approx. cubic yards	50
	andfarmed		
name and location of offsite facility)	Onsite OffsiteEnvir		
	ed: No <u>X</u> Yes		
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample location Four wall  Sample depth 12'  Sample Date 08/04/94  Sample Results  Benzene(ppm) < 0.25  Total BTEX(ppm) 27  Field headspace(ppm)	Sample	
Ground Water Sample:	Yes NoX	_(If yes, attach sample resul	ts)
I hereby certify that the infinate //8/93 Signature	Ormation above is true and comp	lete to the best of my knowled Name  Scott T. /	



#### Filan #1 Meter/Line ID 70625

SITE DETAILS

Legals - Twn: 27N NMOCD Hazard Ranking: 0

Operator: Meridian

Rng:8

Sec:5

Unita

Land Type: State Pit Closure Date: 08/04/94

\*\*\*\*

#### RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

The pit was excavated to 12 feet (ft) below ground surface (bgs) to the practical extent of the equipment and a soil sample was collected for field headspace analysis and laboratory analysis for BTEX and TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 647 ppm; laboratory analyses indicated a TPH concentration of 4,120 mg/kg. The laboratory analyses for BTEX failed QA/QC criteria and are considered not representative. The TPH concentration was below the recommended remediation levels for the Hazard Ranking Score of 0.

Approximately 50 cubic yards of soil were excavated and hauled to Envirotech, a commercial landfarm, for treatment and disposal. The pit was backfilled with clean soil and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed with refusal at 30.5 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 30-30.5 ft bgs. A field headspace analysis was not conducted because of poor sample recovery. Laboratory analysis indicated a benzene concentration of <1.3 mg/kg, a total BTEX concentration of 48.1 mg/kg, and a TPH concentration of 782 mg/kg. All analyses concentrations were below recommended remediation levels for the Hazard Ranking Score of 0.

El Paso Field Services requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over eight years.
- The impacted soil was excavated to the practical extent of the equipment disposed of offsite.
- The excavation was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Backfilling the pit with clean soil eliminated the potential for direct contact with hazardous constituents by livestock or the public; i.e., direct contact exposure pathways are incomplete.
- Groundwater was not encountered in the soil boring to 30.5 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.



- TPH concentrations in the soil at 30 ft bgs were about 19% of the concentration at 12 ft bgs, and were below the recommended remediation levels for this site. This strong attenuation with depth indicates that residual hydrocarbons will degrade by natural attenuation with minimal risk to the environment.
- Bedrock was encountered at 30 feet bgs making further down-gradient migration unlikely.

#### **ATTACHMENTS**

Field Pit Assessment Form Revised Field Pit Assessment Form Field Pit Remediation/Closure Form Phase 2 Soil Boring Log Laboratory Analytical Results

# FIELD PIT SITE ASSESSMENT FORM

	Meter: 70625 Location: FILAN #1
RAI	Operator #: 2999 Operator Name: MERIDIANP/L District: BALLARD
GENERAL	Coordinates: Letter: 8 Section 5 Township: 27 Range: 8
GE	Or LatitudeLongitude
	Pit Type: Dehydrator Location Drip: X_ Line Drip: Other:
	Site Assessment Date: 6.9.94 Area: 07 Run: 32
	NMOCD Zone: Land Type: BLM 🛛 (1)
	(From NMOCD State □ (2)
	Maps) Inside $\boxtimes$ (1) Fee $\square$ (3)
	Outside (2) Indian
	Depth to Groundwater
	Less Than 50 Feet (20 points) 🔲 (1) 50 Ft to 99 Ft (10 points) 🔲 (2)
	Greater Than 100 Ft (0 points) (3)
	Wellhead Protection Area:
EN	Is it less than 1000 ft from wells, springs, or other sources of
SM	fresh water extraction?, or; Is it less than 200 ft from a private
ASSESSMENT	domestic water source? (1) YES (20 points) (2) NO (0 points)
AS	Horizontal Distance to Surface Water Body
SITE	Less Than 200 Ft (20 points) (1)
SI	200 Ft to 1000 Ft (10 points) 🔯 (2) Greater Than 1000 Ft (0 points) 🗌 (3)
	Name of Surface Water Body <u>Fresho CANYON</u>
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks,
	Irrigation Canals,Ditches,Lakes,Ponds)
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)
	$\square (2) > 100'$
	TOTAL HAZARD RANKING SCORE: 30 POINTS
REMARK	Remarks: ONLY PIT ON LOCATION, PIT IS DRY. LOCATION IS IN FRESHO
MAI	CANYON WEST OF LARGO WASH. REDUNE AND TOPO CONDRMED LOCATION
RE	IS INSIDE V.Z.

	ORIGINAL PIT LOC	CATION
	Original Pit : a) Degrees from North <u>96</u> b) Length : <u>18'</u> Width :	Footage from Wellhead 108'  14' Depth: RTZ /
ORIGINAL PIT LOCATION	WILLHEAD WASHING	108'
REMARKS	Remarks: Took Pictures AT 11:26 A.M. END Dump	
	Completed By:  Telest Charupson  Signature	<u>6.9-94</u> Date

# REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 70625 Location: Flaw #    Operator #: 2999 Operator Name: Meanum P/L District: Emiliate  Coordinates: Letter # Section 5 Township: 27 Range: 8  or Latitude ' Longitude  Pit Type: Dehydrator Location Drip: * Line Drip: Other:  Site Assessment Date: 4999 Area: 07 Run: 32  Revised Date: 9/25/02
	NMOCD Zone:  (from NMCOD Maps)  Intside (1)  Outside (2)  Indian
T	Depth to GroundwaterLess than 50 Feet (20 points)☐ (1)50 Feet to 99 Feet (10 Points)☐ (2)Greater than 100 Feet (0 Points)☑ (3)
ASSESSMENT	Well Protection Area  Is it less than 1000 feet from well, spring or other source of fresh water extraction? or; Is it less than 200 feet from a private domestic water source?  YES (20 Points)  NO (0 Points)
SITE A	Horizontal Distance to Surface Water Body Less than 200 Feet (20 points) (1) 200 Feet to 1000 Feet (10 Points) (2) Greater than 1000 Feet (0 Points) (3)
	Name of Surface Water Body Fasse Canyon  (Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)
	Distance to Nearest Ephemeral Stream (1) < 100 feet (Navajo Pits Only) (2) > 100 feet
	TOTAL HAZARD RANKING SCORE POINTS
REMARKS	Remarks: Levisian Based ON PE- ASSESSMENT OF DEPTH to GRUNDWAKK Using DE/DRIME SUffmant, DISTANCE TO NEMASST SURFACE MAKE MAS Also DE-EUNIMAKS.



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

# SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 185	945837
MTR CODE   SITE NAME:	70625	N/A
SAMPLE DATE   TIME (Hrs):	8-4-92	1030
SAMPLED BY:	N/A	1
DATE OF TPH EXT.   ANAL.:	8 9 104	8/9/94
DATE OF BTEX EXT.   ANAL.:	81/1/94	8/11/94
TYPE   DESCRIPTION:	VC	Brown Sand

REMARKS:			
REIVIANKS.	 		

## RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
PARAMETEN			DF	Q	M(g)	V(ml)
BENZENE	L0.25	MG/KG	10			
TOLUENE	40.25	MG/KG	10			
ETHYL BENZENE	40.25	MG/KG	10			
TOTAL XYLENES	270	MG/KG	10			
TOTAL BTEX	271	MG/KG				
TPH (418.1)	4120	MG/KG			2.19	28
HEADSPACE PID	647	PPM				
PERCENT SOLIDS	93,3	%				

The Surrogate Recovery was at 425 % for this sample All QA/QC was acceptable.

The Surrogate Recovery was at 425 % for this sample All QA/QC was acceptable.

The Surrogate recovery was at 425 white the sample All QA/QC was acceptable.

The Surrogate recovery was at 425 white the sample All QA/QC was acceptable.

The Surrogate recovery was at 425 white the sample All QA/QC was acceptable.

The Surrogate recovery was at 425 white the sample All QA/QC was acceptable.

The Surrogate recovery was at 425 white the sample All QA/QC was acceptable.

Date: 9/2/94

# GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 408339

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

			····			
SAMPLE ID. # CLIENT I.D.		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01 945835		NON-AQ	08/04/94	08/11/94	08/11/94	10
02 945836		NON-AQ	08/04/94	08/11/94	08/11/94	10
03 945837		NON-AQ	08/04/94	08/11/94	08/11/94	10
PARAMETER	<del></del>		UNITS	01	02	03
BENZENE			MG/KG	0.38	<0.25	<0.25
LUENE	,		MG/KG	26	<0.25	<0.25
ETHYLBENZENE			MG/KG	<0.25	1.2	<0.25
TOTAL XYLENES			MG/KG	4.7	31	270
					•	
SURROGATE:						
BROMOFLUOROBENZENE	(			71	112	425*

<sup>\*</sup>OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 70625 Location: Filan #1  Coordinates: Letter: H Section 5 Township: 27 Range: 8  Or Latitude Longitude Date Started: 8/4/94 Run: 07 32
FIELD OBSERVATIONS	Sample Number(s): KD 185  Sample Depth: 12' Feet  Final PID Reading 647 ppm PID Reading Depth 12' Feet  Yes No  Groundwater Encountered
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Name:  Pit Closure Date: 8/4/44  Pit Closed By:
REMARKS	Remarks: Excavated pit to 12', Took PiD Sample, Closed pit.  Signature of Specialist: My Dan



# CHAIN OF CUSTODY RECORD

		-				CONTRACT LABORATORY P. O. NUMBER	
PROJECT NUMBER PROJECT NAME  PIT Closure	PHOLEGINAME Pit Closure Project # 24324			REQUESTED ANALYSIS			
SAMPLERS: (Signature) //	DATE: 8/4/94	BUNATIVOS SONTAINS BUNAS BAYT	Hc 1.814	8050 EX			
LABID DATE TIME MATRIX	IX SAMPLE NUMBER			78 Αq3		REMARKS	
5837 84/44 1030 Soil	KD 185	1 VC	X	×	167		
5838 8/4/84 1215 Soil	KD 186	7/2	×	×	89/		
814/44 1415	KD 187	1	$\times$	$\searrow$	691	Sample very wet	
_	188 XX 188	1 1/9	X	X	021		
			'	-			
				· /			
<							<del>/</del>
RELINGLYSHIPD BY: (Signafur)	1650 84/94   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	lature)	iesk	RELINGHISHED BY: (Sgranus)	mature) C	DATECTIME 26 RECEIVED BY: (Signature)	
REENQUISHEPBY: (Signature)	DATE/TIME RECEIVED BY: (Signature)	nature)		RELINQUISHED BY: (Signarura)	malurer	DATE/TIME RECEIVED OF LABORATORY BY: (Signeture)	Signeture)
						1 / m / /	
REQUESTED TURNAROUND TIME:  CROUTINE CARRIER CO.	SAMPLE RECEIPT REMARKS	1EMARKS			RESULTS & INVOICES TO:	FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPA	NV.
BILL NO.:	CHARGE CODE				505-599-2144	P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261	499

# RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

Fermington, New Mexico 87401 (605) 326-2262 FAX (606) 326-2388

Elevation	
Borehole Location	QH-55-727-R8
GWL Depth	
Logged By	CM CHANCE
Drilled By	K Padilla
Date/Time Started	7/24/95-1245
Date/Time Comple	sted 7/24/95 -1415

Borehole #	BH-1	<u></u>
Well #		
Page	of /	

Project Name
Project Number
Project Location

Well Logged By
Personnel On-Site
Contractors On-Site

Project Number

14509
Phase
6000
77

7063.5

CM Chance

K Padilla, F. Ayeca, D. Goya

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

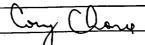
Client Personnel On-Site

Г				Sample		uscs	Depth Lithology	Air	Monitor	ing	Dritting Conditions	
Depth (Feet)		Sample Number	Sample Interval	Type & Recovery (inches)	Sample Description Classification System: USCS		Change (feet)	Units: PPM <u>S</u> BZ BH HS		-	& Blow Counts	
<b>H</b>				(inches)	Backfill to 12'							
	_ 5				•							
	_ ·											
	10											
	15	1	15-17	۱۶,.	Gry silty SAND, VF-Fsand, loose, moist, offer		·	0	80	<u>581</u> 585	1259	
	20	٦	الم-مد	, Au	Αħ			0	89	364 370	- 1700 - hard	
	25	٠ د	72-9 <b>6</b>	a <sup>u</sup>	АA			a	28	120	-13/1	
	30	ц	20-200	<b>.</b> ''	Aa Br Sandstone, med-coarse sand.			D	٥٥	88 NA	-hard drilling	
	E				AA Br Sandstone, med-coarse sand, well comented TOB 30.5'	1				NA	-Insuff For HS -Cofusa	
	35										Sampled to	
	_											
	40											

Comments:

CMC 72 (30-30 s) sens to lab (BTEX, TPH). Insufficient volume for headspace.
BH growted to surface

Geologist Signature



EI Paso Natural Gas Company

Phase His

# CHAIN OF CUSTODY RECORD

Page\_

RECEIVED OF LABORATORY BY: (Signal Jrd) H-16-27-8 EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261 71033 70625 FIELD SERVICES LABORATORY IN CHINE IN IN Company 35-34 D-5 Line Day REMARKS Schultz # 30-305 Filan# CONTRACT LABORATORY P. O. NUMBER J. J. HWII . 1141 <u>S</u> 30-33 RESULTS & INVOICES TO: 89 1 # SEGNENCE 99 233 MA PPM ~ LINGUISHED BY: (Signature) REQUESTED ANALYSIS WERPHERIFFORM (Superdence) **GIA 8AJ** X3T8 678 8020 1.814 A93 HGT 76 9/ SAMPLE TYPE SAMPLE RECEIPT REMARKS 1/2/18/1520/ Keller Th ell TOTAL NUMBER SPENIATHOD PC RECEIVED BY: (Signature) on the property of the property of CHARGE CODE CMC 7D 78/195 FIELD ID CMC7 CMC72 Jy OPATE/TIME PROJECT NAME
PIT CLOSURE Project MATRIX Soil 7/44/85 0856 Das TIME 9 DATE SQUESTED TURNAROUND TIME: O RUSH LINOUISHED BY: (S/p HERS: (Signature) JECT NUMBER 24324 82014 6701h. 47067 AB(<del>0</del> ARRIER CO. ROUTINE ILL NO.:



Phase II Drilling
Filan#1

# FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

# SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	CMC 72	947069		
MTR CODE   SITE NAME:	70625	N/A		
SAMPLE DATE   TIME (Hrs):	01-24-95	13:25		
SAMPLED BY:	N/A			
DATE OF TPH EXT.   ANAL.:	7-25-99-95	7-25-95		
DATE OF BTEX EXT.   ANAL.:	7-27-95	7-27-15		
TYPE   DESCRIPTION:	VG	Light grey sand + clay		

REMARKS:

## **RESULTS**

PARAMETER	RESULT	UNITS	in some	QUALIFIE	RS	
	energy of the engine to		DF	• Q	⊚M(g)	V(ml)
BENZENE	11.3	MG/KG	50			
TOLUENE	41.3	MG/KG	50			
ETHYL BENZENE	4.1	MG/KG	50			
TOTAL XYLENES	44	MG/KG	50			
TOTAL BTEX	48.1	MG/KG				
TPH (418.1)	782	MG/KG		vili essenti	2.06	28
HEADSPACE PID	NA	PPM				
PERCENT SOLIDS	90.0	%				

	- TPH is by EPA Meth	od 418.1 and BTEX is by EPA	Method 8020
The Surrogate Recovery was at	91	% for this sample	All QA/QC was acceptable
Narrative: ATI Results	BTEX	and modifie	18015 attached



## GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 507411

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/PHASE II DRILLING

11/001	<b>-</b>					
SAMPL		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947067	NON-AQ	07/24/95	07/27/95	07/27/95	1
02	947068	NON-AQ	07/24/95	07/27/95	07/27/95	50
03	947069	NON-AQ	07/24/95	07/27/95	07/27/95	50
PARAM	ETER		UNITS	01	02	03
BENZE			MG/KG	<0.025	<1.3	<1.3
TOLUE			MG/KG	<0.025	2.8	<1.3
	BENZENE		MG/KG	<0.025	4.1	4.1
	XYLENES		MG/KG	<0.025	37	44
SURRO	GATE:					
BROMO	FLUOROBENZENE (%)			103	113	91



## GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 507411

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/PHASE II DRILLING

I WOODCI WHILE . I I I					
SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
02 947068	NON-AQ	07/24/95	07/27/95	07/27/95	1
03 947069	NON-AQ	07/24/95	07/27/95	07/28/95	10
08 947077	QA-NON	07/25/95	07/27/95	07/27/95	1
PARAMETER	<del> </del>	UNITS	02	03	08
FUEL HYDROCARBONS		MG/KG	730	1200	67
HYDROCARBON RANGE		•	C6-C12	C7-C12	C9-C18
HYDROCARBONS QUANTITATE	D USING		GASOLINE	GASOLINE	DIESEL
FUEL HYDROCARBONS		MG/KG	460	<u>-</u>	-
HYDROCARBON RANGE		MG/KG	C12-C36	-	-
HYDROCARBONS QUANTITATE	D USING	MG/KG	DIESEL	-	-
SURROGATE:					• • • • • • • • • • • • • • • • • • •
O-TERPHENYL (%)			95	109	108