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

#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Risk
Exceeds
Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office
Plume (Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

		DEC 2002
Operator: Meridian 30 05824	Telephone:	PECHANIA 5
Address:		31L 0 3
Facility Or: Ballard No.9, Meter 70791 Well Name	,	Carried St. St. St. Berker
Location: Unit or Qtr/Qtr Sec_O Sec_	.15 T <u>26</u> R <u>9</u> Count	ty_San Juan
Pit Type: Separator Dehydrator	Other <u>Drip</u>	-
Land Type: BLM X, State, F	See Other	· · · · · · · · · · · · · · · · · · ·
Pit Location: Pit dimensions: length 17' (Attach diagram)  Reference: wellhead X,	_, width <u>16'</u> , depth <u>2'</u> , other	·
Footage from reference: 44'		
Direction from reference: 34	Degrees Y Fast North	
Direction from reference: 34	Degrees X East North of	
Direction from reference: 34	of	South
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	of	
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points)
Depth To Ground Water (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 Greater than 100 feet	(20 points) (10 points) ( 0 points)  Yes (20 points)

Date Remediation Started: _	08/15/94	Dat	e completed: _	08/15/94
Remediation Method: Exc (Check all appropriate				50
	dfarmed			
Oth	er			· · ·
Remediation Location: Ons (i.e. landfarmed onsite, name and location of offsite facility)	site Offsite			
General Description of Remo	edial Action: Excavate	ed pit to 12'; took PID	Sample; closed	l pit.
-				
Ground Water Encountered:	No <u>X</u>	Yes I	Depth	- A
inal Pit: Closure Sampling: (if multiple samples,		our walls and center o		
attach sample results and diagram of sample				
locations and depths)	Sample Date08/	15/94	Sample	e time11:15
	Sample Results			
	Benzene(ppm)	<0.025		
	Total BTEX(pp	om) <u>&lt;0.10</u>		
	Field headspace	e(ppm) <u>9</u>		
	TPH <u>524</u>			
Ground Water Sample:	Yes No	X (If yes, attack	ch sample resul	ts)
I hereby certify that the inform	nation above is true as	nd complete to the bes	st of my knowle	dge and belief
ate 1/8/93		Printed Name Sand Title Seni	_	
Signature From To	1	and Title Seni	or ENV.	scientist



#### Ballard No. 9 Meter/Line ID 70791

SITE DETAILS

Rng:9

Legals - Twn: 26N

NMOCD Hazard Ranking: 20 Operator: Meridian

Sec:15

Unit: Ö

Land Type: BLM

Pit Closure Date: 08/15/94

#### 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) 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 9 ppm; laboratory analysis indicated a benzene concentration of <0.025 mg/kg, a total BTEX concentration of <0.10 mg/kg, and a TPH concentration of 524 mg/kg. The benzene and total BTEX concentrations were below the recommended remediation level for the Hazard Ranking Score. The TPH concentration exceeded its recommended remediation level for the Hazard Ranking Score of 20.

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 to 20 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 20 ft bgs. Headspace analysis indicated an organic vapor content of 0 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of 720 mg/kg. Benzene and BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score. The TPH concentration exceeded its recommended remediation level for the Hazard Ranking Score of 20.

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 seven years.
- The impacted soil was disposed of offsite.
- The test pit 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 20 ft bgs.



• There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.

#### **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

<u>S_</u>	
GENERAL	Meter: 70791 Location: Ballard No. 9  Operator #: 2999 Operator Name: Meridian P/L District: Ballard  Coordinates: Letter: O Section 15 Township: Z6 Range: 9  Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 6-20-94 Area: 11 Run: 91
S SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  (I)  Fee  (3)  Outside  Indian  Depth to Groundwater  Less Than 50 Feet (20 points)  Greater Than 100 Ft (0 points)  Wellhead Protection Area:  Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; Is it less than 200 ft from a private domestic water source?  (1) YES (20 points)  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  (2)  Greater Than 1000 Ft (0 points)  (3)  Name of Surface Water Body  Recolamyon Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  Distance to Nearest Ephemeral Stream  (1) < 100'(Navajo Pits Only  (2) > 100'  TOTAL HAZARD RANKING SCORE:  30  POINTS
REMARKS	Remarks: One piton location. Dry  Inside V.Z. on Redline & Topo  Datelor

Z	ORIGINAL PIT LOCATION  Original Pit : a) Degrees from North 34 Footage from Wellhead 44  b) Length : _/7 Width : _/6 Depth : _2
ORIGINAL PIT LOCATION	Wellhead
REMARKS	Remarks:  Photos - 1300 hrs
	Completed By:  4-20-94  Signature  Date



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	100111111111111111111111111111111111111				
	Field	IID		Lab ID	·	
SAMPLE NUMBER:	KD213		9459	35		
MTR CODE   SITE NAME:	7079	l		N/A		
SAMPLE DATE   TIME (Hrs):	8-15-9		1115	·		
SAMPLED BY:		N	/A	<del></del>		
DATE OF TPH EXT.   ANAL.:	8-16.			16-94		
DATE OF BTEX EXT.   ANAL.:	8/	17194	8/20	194		•
TYPE   DESCRIPTION:	٧٢		Fine Para	un sand	chay	
					•	
REMARKS:			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
		RESULTS	<u> </u>			
PARAMETER	RESULT	UNITS		QUALIFIE	-RS	
PARAMETER			DF	Q	M(g)	V(ml)
BENZENE	60.025	MG/KG				
	1000		1 1		1	
TOLUENE	20.025	MG/KG				
TOLUENE ETHYL BENZENE	40.025	MG/KG MG/KG				,
ETHYL BENZENE	40.025	MG/KG				
ETHYL BENZENE TOTAL XYLENES	L0.025	MG/KG MG/KG			2.30	28
ETHYL BENZENE  TOTAL XYLENES  TOTAL BTEX	L0.025 L0.025 L0.10	MG/KG MG/KG MG/KG			2.30	28
ETHYL BENZENE  TOTAL XYLENES  TOTAL BTEX  TPH (418.1)	L0.025 L0.025 L0.10 524	MG/KG MG/KG MG/KG			2.30	
ETHYL BENZENE  TOTAL XYLENES  TOTAL BTEX  TPH (418.1)  HEADSPACE PID  PERCENT SOLIDS	40.025 40.025 40.10 524 9 90.4	MG/KG MG/KG MG/KG MG/KG PPM %	PA Method 8020		The second secon	
ETHYL BENZENE  TOTAL XYLENES  TOTAL BTEX  TPH (418.1)  HEADSPACE PID	40.025 40.025 40.10 524 9 90.4	MG/KG MG/KG MG/KG MG/KG PPM %	PA Method 8020		The second secon	



#### GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 408364

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

PROJ.	ECT NAME	. FII Chose	1/14		·	•	
SAMPI	LE # CLIENT	I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
22	945934		NON-AQ	08/15/94	08/17/94	08/20/94	50
23	945935		NON-AQ	08/15/94	08/17/94	08/20/94	1
24	94593 <b>6</b>		NON-AQ	08/15/94	08/17/94	08/20/94	1
PARA	METER			UNITS	22	23	24
BENZ	ENE			MG/KG	<1.3	<0.025	<0.025
TOLU	ENE			MG/KG	<1.3	<0.025	<0.025
ETHY	LBENZENE			MG/KG	3.9	<0.025	<0.025
TA	L XYLENES			MG/KG	96	<0.025	<0.025
SURR	OGATE:					· · · · · · · · · · · · · · · · · · ·	
5561		7 PMP (%)			Nλ+	85	85

BROMOFLUOROBENZENE (%)

<sup>\*</sup>SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

# FIELD PIT REMEDIATION/CLOST E FORM

3	ENER	Meter: 7079/ Location: Ballard #9  Coordinates: Letter: O Section 15 Township: 26 Range: 9  Or Latitude Longitude  Date Started: 8.15.94 Run: 11 91
	FIELD OBSERVATIONS	Sample Number(s): KD 2/3  Sample Depth: 12' Feet  Final PID Reading 19 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: 2:5.94  Pit Closed By: 3ET
	REMARKS	Remarks: Excavatch pit to 12', Took pio Sample, Closed pit  Signature of Specialist: Many Deaver
		Signature of Specialist: Kung Deaw (SP3181)





Page		of	

	11 11 11 11 11 11 11 11 11 11 11 11 11	DBO IECT A	AME		****									CONT"ACT LABORATORY P. O. NUMBER		
PROJECT NUMBER PROJECT NAME PIL Closure Project # 24324		24 58				UESTED	ANALYS	SIS								
AMPLERS:	: (Signature)	//		DATE:		TOTAL NUMBER OF CONTAINERS	7.E	7.1	8				A			
	4	him	11	gover E	3/15/94	SON	SAMPLE TYPE	PH 418	<b>E</b> 8	1	Ì	50	a			
LABID	DATE	TIME	MATRIX	SAMPLE N	UMBER	5.9		TPH EPA 418.1	BTEX EPA 8020			5		REMARKS		
·arc	8/15/av	1115	50,1	KD Z13		1	VC	X	X			19	13			
:9 36	9/15/94	1235	Soil	KD 214		1	VG	X	X			19	14			
59.37	8/15/9	1610	soi/	KD 215		1	VC	X	X			19	'5 <sup>-</sup>			
131								,					<u> </u>			
											·					
										/						
													_			
· .										-						
RELINQUIS	SHED BY: (SI		'u-	8/15/Gy 1745	RECEIVED BY: \Sig	nature)	lie	36	RELINO	YSHED B	Y: (Signati	ure) ) (1 Al /	h	DATE/TIME 30° RECEIVED BY: (Signature)		
RELINQUIS	SPED BY: (S			DATE/TIME	RECEIVED BY: (SA	gnature)			HELING	DISHED 8	Y: (Signat	ure)		DATE/TIME RECEIVED OF LABORATORY BY: (Signature)		
_					5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				DEC: 70 4 1			BESULTS	A IN	INVOICES TO:		
REQUESTED TURNAROUND TIME:  O ROUTINE O RUSH			SAMPLE RECEIPT	HEMAHK						1,1200213		FIELD SERVICES LABORATORY				
CARRIER					1									EL PASO NATURAL GAS COMPANY		
. *						٠,								P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499		
BILL NO.:					CHARGE CODE				*			505-599-	214			

# CORD OF SUBSURFACE EXPLORATION

MILIP ENVIRONMENTAL

4000 Monroe Road Farmington, New Mexico 87401 (605) 326-2262 FAX (505) 326-2388

Elevation

Borehole Location T26, R9, \$15, Ø

GWL Depth
Logged By
Drilled By
Date/Time Started 08/17/95 10/12

Date/Time Completed 08/17/95 10/15

Borehole #	BH-1	
Well #		
Page	of [	

	EPNG Pits			
Project Name	14509	Phase	6000.77	
Project Number		109	70791	
Project Location	(30 1 1044 A	/6:		

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

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

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USC <b>S</b> Symbol	Depth Lithology Change (feet)	Monitori Inits: PPI BH		Drilling Conditions & Blow Counts
0				Buck Fill material to					
5									
10 									
15 								%	(025
20	1	( <del>8-</del> )	770	Clayey Sind (25% clay) brown, rudium dense, moist Boring terminated at 20					
25	5					·			
30									
31	5								
E 4	o								

Comments:

Sample collected at 20'

Surface orally

colling Kandley





		t									3	CONT'ACT LABORATORY P. O. NUMBER
PR ~	PROJECT NUMBER		PROJECT NAME PIT CLOSE	AME SSURE F	Project Name Pit Closure Project # 24324	583 EB1		REQUES	REQUESTED ANALYSIS	SIS	Н	
- 18 °	SAMPLERS: (Signature)	┪	=		DATE: 1.1 1085	L NUME MIATINI BIGMA BIGMA					- F.Q.	
5		PATE F	<u>u</u>	MATRIX	SAMPLE NUMBE		19T 493	9T8 8 A93		£#€	└── #	.
870	1	<del>-   -   -   -   -   -   -   -   -   -  </del>	\$150	Lis	JWK 19	-	Ve /	2	2	-	17	
47210	09	2501 Pelmlan	250	1,:5	טב אויינ	<i>&gt;</i>	V ن ک	>		P	00	18-40 20 18-191
1 2	100	270 18 11 18 07 24	רמנ	51	1	1 76	/ 9	>		0	5	Kuch Explorution Green # 1 11201
147	27/10	14727/ Delining 1341	1341	7.05		i B	>	>		0		Sign Blank
1 7	272	147272 Rel cilian 65 EX H	1451	- ک	JWK 23	>	V6 V	>		7	श्ल	38 to 40
2 2	73	W2273 021121995 1341	1341	1:3	אב אנטנ	0 1	)	>		ū		
7 7	27	77274 metalge 1500	30,	1 %	25 Xinc.	>	16 1	>		~	7	13/4/5 43/4/5
:	1	2 50										
1												
							-					
_1_												
122	LINGUISHE	RELINQUISHED BY: (Signatu	(elnter		DATE/TIME RECEIVED BY: (Signalure)	ignature)		RELINOUIS	RELINQUISHED BY: (Signature)	(ture)		Dia patertime 20 RECEIVED BY: (Signature)
	=	7	=		Eshins 1715 KODA	1 Awal	3	Kely	\	- Made	7	97 10:50
/  =	整整	350	Carrier (Surger		RECEIVED BK:	ignature)		RELINGUIS	RELINQUISHED BY: (Signature)	ılure)		DATE/TIME RECEIVED OF LABORATORY BY: (Signatura)
	1		<b>}</b>						)			Jan
J∉ U	REQUESTED	REQUESTED TURNAROUND TIME:	UND TIME		SAMPLE RECEIPT REMARKS	T REMARKS				RESUL	IS & INVC	RESULTS & INVOICES TO: FIELD SERVICES LABORATORY FIELD SO NATION GAS COMPANY
Ιο	CARRIER CO	G			CHARGE CODE							P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499
Φ.	BILL NO.:				AL PROPERTY OF THE PROPERTY OF					100-00 100 1	505-599-2144	



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

## SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK20	947269
MTR CODE   SITE NAME:	70791	Ballard No. 9
SAMPLE DATE   TIME (Hrs):	08-17-95	
PROJECT:	Phase # Drilling	
	6/21/05	8-21-95
DATE OF TPH EXT.   ANAL.:	8/21/05	8/21/05
DATE OF BTEX EXT.   ANAL.:	V6	Late brown fine sand.
TYPE   DESCRIPTION:	70	TEMEL DIESELY INC. JAME

Field Remarks:		<u>.</u>
rielo nellialks.		

### RESULTS

	PARAMETER		PE	SULT	UNITS		C	UALIFIE	RS	
	PARAMETER				aller of the second sec	DF	100000	Q	M(g)	V(ml)
	BENZENE		4	.5	MG/KG			F		
	TOLUENE		<	. 5	MG/KG					
E	THYL BENZENE		<	. 5	MG/KG					
TO	TAL XYLENES	S	<	1.5	MG/KG					
	TOTAL BTEX		<	3	MG/KG					
	TPH (418.1)		72	LO .	MG/KG				2.07	28
В	EADSPACE PID	).	0		PPM					
PI	ERCENT SOLIDS	S	9	9.5	%					

PERCENT SOLIDS	99.5	%		
The Surrogate Recovery was at	TPH is by EPA N	Method 418.1 and BTEX is by E for this sampl	PA Method 8020 e All QA/QC was	s acceptable.
Narrative: Benzene TAken	from	FID.		

# BTEX SOIL SAMPLE WORKSHEET

File Soil Mas Extraction vo Shot Volum	s (g): i. (mL):	947269 4.97 20 100	Date Printed : Multiplier (L/g) : DF (Analytical) : DF (Report) :	8/24/95 0.00101 200 0.20121	
Shot volum	o (ar).		•		· · · · · · · · · · · · · · · · · · ·
					Det. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.000	0.503
Toluene	(ug/L) :	0.00	Toluene (mg/Kg):	0.000	0.503
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.000	0.503
p & m-xylene	(ug/L) :	0.00	p & m-xylene (mg/Kg):	0.000	1.006
o-xylene	(ug/L) :	0.00	o-xylene (mg/Kg):	0.000	0.503
J NJ.	, 5 –7		Total xylenes (mg/Kg):	0.000	1.509
			Total BTEX (mg/Kg):	0.000	