1625 N. French Dr., Hobbs, NM 88240 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**

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

Risk did not

defined

Submit 1 copy to appropriate
District Office
and 1 copy to the Santa Fe Office
TPH 184

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

	<u> </u>	7//3
Operator: Meridian Oil	Telephone:	10
Address: 30-	-039-05999 E OLCOMO	5 6 7
Facility Or: Canyon Largo Unit #36; Meter Well Name	r 71351	
Location: Unit or Qtr/Qtr SecPSec	13 T 25 R 6 County Rio	Arriba
Pit Type: Separator Dehydrator	Other <u>Drip</u>	
Land Type: BLM X, State,	FeeOther	
(Attach diagram)	', width10', depth2', other	
Footage from reference: 100		
	70 Degrees X East North	
	of West South	
Depth To Ground Water		
(Vertical distance from contaminants to seasonal high water elevation of ground water.)	50 feet to 99 feet (1	0 points) 0 points) 0 points) 20
(Vertical distance from contaminants to seasonal high water elevation of	50 feet to 99 feet (1 Greater than 100 feet (1 Yes (2	0 points) 0 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	50 feet to 99 feet Greater than 100 feet Yes (2 No (Less than 200 feet 200 feet to 1000 feet (1000 feet)	0 points) 0 points) 0 points) 20 0 points)

Date Remediation Started	2 10/26/94 Date completed:10/27/94
Remediation Method: Ex	xcavation X Approx. cubic yards 40
(Check all appropriate sections.)	andfarmed Insitu Bioremediation
0	ther
(i.e. landfarmed onsite, name and location of	Onsite OffsiteEnvirotech
offsite facility)	
General Description of Re	medial Action: Excavated pit to 12'; took PID sample; closed pit
-	
Ground Water Encountere	d: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location Four walls and center of pit composite
attach sample results and diagram of sample locations and depths)	Sample depth 12'
rocations and deptils)	Sample Date Sample time
	Sample Results
	Benzene(ppm) <0.5
	Total BTEX(ppm) 76.4
	Field headspace(ppm)
	TPH <u>2490</u>
Ground Water Sample:	Yes NoX (If yes, attach sample results)
I hereby certify that the inf	formation above is true and complete to the best of my knowledge and belief.
Date 1/8/03)	Printed Name Scott T. Pope and Title Fenior Env. Scientist
Signature June	1. I'm and Title Genior Env. Scientist



Canyon Largo Unit #36 Meter/Line ID 71351

SITE DETAILS

Legals - Twn: 25N

Rng: 6

Sec:13

Unit: P

NMOCD Hazard Ranking: 20

Operator: Meridian

Land Type: BLM

Pit Closure Date: 10/26/94

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 397 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 76.4 mg/kg, and a TPH concentration of 2,490 mg/kg. The benzene concentration was below its recommended remediation level for the Hazard Ranking Score. The total BTEX and TPH measurements exceeded recommended remediation levels for the Hazard Ranking Score of 20.

Approximately 40 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 refusal at 17 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 15-17 ft bgs. Headspace analysis indicated an organic vapor content of 247 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 107 mg/kg, and a TPH concentration of 184 mg/kg. The benzene concentration was below its recommended level for the Hazard Ranking Score; total BTEX and TPH concentrations exceeded recommended remediation levels for the Hazard Ranking Score.

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 excavated to the practical extent of the equipment and 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 17 ft bgs.



PIT CLOSURE REQUEST

- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Bedrock was encountered in the soil boring at 17 ft bgs, making excavation below this depth impractical.
- TPH concentrations in the soil at 17 feet bgs are approximately 7 percent of the concentrations at 12 feet bgs. This strong attenuation with depth indicates that residual hydrocarbons will degrade by natural attenuation with minimal risk to the environment.

ATTACHMENTS

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

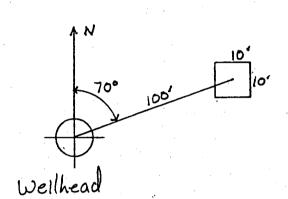
FIELD PIT SITE ASSESSMENT FORM

12	
GENERAL	Meter: 71351 Location:Canyou Largo Unit #36 Operator #: Z999 Operator Name: Mermina P/L District:Oito Coordinates: Letter: P_ Section 13 Township: 25 Range: 6W Or Latitude Longitude Pit Type: Dehydrator Location Drip: X_ Line Drip: Other: Site Assessment Date: 7-19-94 Area: 66 Run: 62
	NMOCD Zone: Land Type: BLM ⋈ (1) (From NMOCD State (2) Maps) Inside ⋈ (1) Fee (3) Outside (2) Indian Indian
	Depth to Groundwater Less Than 50 Feet (20 points)
ASSESSMENT	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) ☒ (2) NO (0 points)
SITE ASS	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body Gouzales Canyon
	(Surface Water Body : Perennial Rivers,Major Wash,Streams,Creeks, Irrigation Canals,Ditches,Lakes,Ponds) Distance to Nearest Ephemeral Stream ☐ (1) < 100'(Navajo Pits Only) ☑ (2) > 100'
	TOTAL HAZARD RANKING SCORE: 40 POINTS
REMARKS	Remarks: Realine V.z inside Topo VZ-inside
MA	one Dut-Neu
RE	

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 70 Footage from Wellhead 100

b) Length: 10 Width: 10 Depth: _____



Remarks:

Photo-17-20 Poll #5

REMARKS

Completed By

Signature

7-19-94

Date

REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 71351 Location: Canyon Largo Unit #36 Operator #: 2999 Operator Name: Meridian P/L District: Ojito Coordinates: Letter P Section 13 Township: 25 Range: 6W or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 7-19-94 Area: 06 Run: 62 Revised Date:									
	NMOCD Zone: (from NMCOD Maps) Land Type: BLM									
L	Depth to GroundwaterLess than 50 Feet (20 points)									
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) 200 Feet to 1000 Feet (10 Points) Greater than 1000 Feet (0 Points) (2) (3)									
	Name of Surface Water Body Gonzales 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: Revision Bases on Distance to NegassT									

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 71351 Location: Canyon Largo Unit #36 Coordinates: Letter: P Section 13 Township: 25 Range: 6w Or Latitude Longitude Date Started: 10/26/94 Run: 06 62
FIELD OBSERVATIONS	Sample Number(s): <u>KD 354</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>397 ppm</u> PID Reading Depth <u>12'</u> Feet Yes No Groundwater Encountered \(\Delta \) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 10/27/94 Pit Closed By: BET
REMARKS	Remarks: Excavated pit on To 12', Took pid Sample, Closed Pit. Signature of Specialist: NWY DOWN

Page

PHOLOGONIA PROJECT # 24324 PHOLOGONIA PRO											l	
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505-599-2144			<u>8</u>	AGE CODE								P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499
	BILL NO.:									202	399-2144	FAX: 505-599-2261

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0565A (Rev. 03-94)



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 354	946460
MTR CODE SITE NAME:	71351	N/A
SAMPLE DATE TIME (Hrs):	10-27-94	0930
SAMPLED BY:		I/A
DATE OF TPH EXT. ANAL.:	10 - 28 - 94	10-28-94
DATE OF BTEX EXT. ANAL.:	11-1-94	11-2-94
TYPE DESCRIPTION:	VL.	DANK Brown sond + clay

REMARKS:		

RESULTS

	RESULT	UNITS		·· QUALIFIE	RS	
PARAMETER	NESOLI (DF	Q		∛ V(ml)
BENZENE	د ی.5	MG/KG	20			
TOLUENE	< 0.5	MG/KG	20			
ETHYL BENZENE	4.4	MG/KG	20			· .
TOTAL XYLENES	7]	MG/KG	20			
TOTAL BTEX	76.4	MG/KG				
TPH (418.1)	2490	MG/KG		- CASSERGE	1.97	28
HEADSPACE PID	39 7	PPM				
PERCENT SOLIDS	89.4	%				

- 1	TPH is by EPA Met	thod 418.1 and BTEX is by EPA	Method 8020
Surrogate Recovery was at	106	% for this sample	All QA/QC was acceptable.
National Secults without	.2		
ATI Results Attack	CO		

11/17/94



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 411303

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. # CLIENT I.D	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13 946460	NON-AC	10/27/94	11/01/94	11/02/94	20
14 946461	NON-AQ	10/27/94	11/01/94	11/03/94	50
15 946462	NON-AÇ	10/27/94	11/01/94	11/02/94	20
PARAMETER		UNITS	13	14	15
BENZENE		MG/KG	<0.5	<1.3	<0.5
TOLUENE	•	MG/KG	<0.5	<1.3	19
ETHYLBENZENE		MG/KG	4.4	13	5.3
TOTAL XYLENES		MG/KG	71	150	77
			• •		
SURROGATE:	•			•	
BROMOFLUOROBENZEN	IE (%)		106	160*	61*

^{*}OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

Borehole # **BH-1** RECORD OF SUBSURFACE EXPLORATION Well # Page PHILIP ENVIRONMENTAL 4000 Monroe Road EPNG PITS Project Name Fermington, New Mexico 87401 6000 / 77 14509 Phase Project Number (505) 326-2262 FAX (505) 326-2388 Project Location CM Chance Well Looged By Elevation Personnel On-Site **Borehole Location** Contractors On-Site GWL Depth

CM CHANCE

THE DONOHUE K. P. J.

Logged By

Drilled By

Client Personnel On-Site

Air Monitoring Method

Drilling Method

4 1/4" ID HSA

PID, CGI

Date/Time Started 6/5/95 - 1400
Date/Time Completed 6/5/95 - 1440 Depth Sample Drilling Conditions uscs Lithology Air Monitoring Sample Description Sample Type & Depth Sample Units: PPM & Blow Counts S Classification System: USCS Symbol Change Recovery Interval (Feet) Number ΒZ BH HS (feet) (inches) Backfill +012' 10 10 92 - 1405 har RoFusal @ 17' Br siltyCLAY, tr vf sand, soft, med Plastic, sl maist It ary Sandstone, sl crystalling, v. hard 0 4" 15-17 J 15 TOB 17' 20 25 30 35

15-17' sample (CMCJ7) sent to lab (BTEX, TPH). Unable to drive And splitspoon (very hard ss). Grout BH to sufface Comments: Geologist Signature



CHAIN OF CUSTODY RECORD

Page

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CONTRACT LABORATORY P. O. NUMBER		HEMARKS	12-135 Canyonlargo Unit 94	20-21 Canyon Lacyo Unit 142	Baysed + Tool 15-17 Canger Large Vale #36										DATE/TIME 33 RECEIVED BY: (Synatum)	0/6/15/55	DATE/TIME RECEIVED OF LABORALONY BY: Copyrights of the copyrights		FESULTS & INVOICES TO: FIELD SERVICES LABORATORY	P. O. BOX 4990	
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בנונים שניבל א ישהי חליםיו



Phase II Commen Lange Unit # 36

FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 37	9410871
MTR CODE SITE NAME:	71351	N/A
SAMPLE DATE TIME (Hrs):	6-5-95	1405
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	6-7-95	6-7-95
DATE OF BTEX EXT. ANAL.:	6.13-95	6-14-95
TYPE DESCRIPTION:	٧G	Darle Brown clay

REMARKS:	
HEIMING.	

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
PANAIVIETEN			DF	Q	M(g)	V(ml)
BENZENE	ره.۶	MG/KG	20			
TOLUENE	47	MG/KG	20			
ETHYL BENZENE	۹. ب	MG/KG	20			
TOTAL XYLENES	53	MG/KG	25			
TOTAL BTEX	107	MG/KG				
TPH (418.1)	184	MG/KG		·	2.02	28
HEADSPACE PID	247	PPM				
PERCENT SOLIDS	83.7	%		1 d d d d d d d d d d d d d d d d d d d		

PERCENT SULIDS	965,-1	/0	1
	TPH is by EPA Meth	nod 418.1 and BTEX is by EPA Method 8020	
The Surrogate Recovery was at	103	% for this sample All QA/QC was acceptable.	
tive:	attached 6	2108 mod: Fred 8015	
TIT I I			_
DF = Dilution Factor Used			

Annroved By:



Date: 6/28/95



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO.

ATI I.D.: 506339

PROJECT #

: 24324

PROJECT NAME

: PIT CLOSURE

PLED EXTRACTED ANALYZED FACTOR 05/95 06/13/95 06/14/95 20 01
01
)
<0.5
47
6.8
53

SURROGATE:

BROMOFLUOROBENZENE (%)

103



GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 506339

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. # CLIENT I.D. P	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. # CHILINI I.D.	ON-AQ	06/05/95	06/12/95	06/12/95	1
PARAMETER		UNITS	01	·	
FUEL HYDROCARBONS		MG/KG	1000		
HYDROCARBON RANGE			C6-C14		
	ING		GASOLINE		

SURROGATE:

O-TERPHENYL (%)

90