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 defined Extent o

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 es defined extent of plume. 1485 feet grondwater estimated a ress than sofeet

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

(Revised 3/9/94)

#### PIT REMEDIATION AND CLOSURE REPORT

	o'ili il	
Operator: Meridian Oil Inc.	_ Telephone:	
Address: 30-645-6	5944	202 = 3 = 3
Facility Or: Huerfanito #66, Meter 92991 Well Name	EE 8212 97 92	
Location: Unit or Qtr/Qtr Sec H Sec 12	T 26 R 9 County San	Juan
Pit Type: Separator Dehydrator	Other Drip	
Land Type: BLM, State, Fee	X Other	
Pit Location: Pit dimensions: length 14', wid (Attach diagram)  Reference: wellhead X, other		
Footage from reference: 123'		
Direction from reference: <u>136</u> D	egrees X East North	
	of	<del> </del>
	Wast C	auth
	West S	outh
Depth To Ground Water	Less than 50 feet	(20 points)
(Vertical distance from	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)
(Vertical distance from contaminants to seasonal	Less than 50 feet	(20 points)
(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	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.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points) _20_
(Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points)20_
(Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points) _20_
(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)20_
(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 1000 feet from all other water sources.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points)20_  (es (20 points) No ( 0 points)0
(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 1000 feet from all other water sources.)  Distance To Surface Water:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Y 1	(20 points) (10 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 1000 feet from all other water sources.)  Distance To Surface Water: (Horizontal distance to perennial	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Y  Less than 200 feet 200 feet to 1000 feet	(20 points) (10 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 1000 feet from all other water sources.)  Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Y 1	(20 points) (10 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 1000 feet from all other water sources.)  Distance To Surface Water: (Horizontal distance to perennial	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Y  Less than 200 feet 200 feet to 1000 feet	(20 points) (10 points) ( 0 points)

Date Remediation Started:	09/29/94 Date completed: 09/29/94
	cavation Approx. cubic yards
(Check all appropriate	Insitu Bioremediation
	her Backfill pit without excavation
Remediation Location: Or (i.e. landfarmed onsite, name and location of offsite facility)	nsite N/A Offsite N/A
General Description of Ren	nedial Action: 10 yds.
Ground Water Encountered	l: No <u>X</u> 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'
locations and depuis)	Sample Date Sample time14:45
	Sample Results
	Benzene(ppm) Not reported
	Total BTEX(ppm) Not reported  Field headspace(ppm) 215
	TPH 947
Ground Water Sample:	Yes NoX (If yes, attach sample results)
I hereby certify that the info	rmation above is true and complete to the best of my knowledge and belief.
Date 1/8/03 Signature	Printed Name Scott T. Pope and Title Service ENV. Scientist



#### Huerfanito #66 Meter/Line ID 92991

SITE DETAILS

Legals - Twn: 26N NMOCD Hazard Ranking: 20

Operator: Meridian Oil Inc.

Rng: 9W

Sec: 12

Land Type: Fee

Pit Closure Date: 9/29/94

Unit: H

NOV 2002

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.

A test pit was excavated to 12 feet (ft) below ground surface (bgs) where a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 215 ppm; laboratory analysis indicated a TPH concentration of 947 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 20.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms as well as 20 cubic yards of imported clean fill, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to refusal at 48.5 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 48-48.5 ft bgs. Headspace analysis indicated an organic vapor content of 142 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 <20 mg/kg. The benzene, BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

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 test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring to 48 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 48 ft bgs were non-detect.



Residual hydrocarbons in the soil will likely 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 II Soil Boring Log Laboratory Analytical Results

## **REVISED**FIELD PIT SITE ASSESSMENT FORM

GENER	Meter: 9291 Location: Huerfal Operator #: Operator Name Coordinates: Letter: H Section 1  Or Latitude Location I  Pit Type: Dehydrator Location I  Site Assessment Date: 4/13/98	P/N  Township: 26  ngitude  Drip: Line I	L District:  Range: 9_  Drip: Other:
	NMOCD Zone: (From NMOCD Maps) Inside Outside  Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points)	Land Type:  ☐ (1) ※ (2)  ※ (1) — (2) — (3)	BLM (1) State (2) Fee (3) Indian
SITE ASSESSME	Wellhead Protection Area  Is it less than 1000 ft from wells, springs extraction?, or; Is it less than 200 ft from	or other sources of a private domestic version (20 points)  Body  (1) (2)  × (3)	fresh water water source?  X (2) NO (0 points)
	(Surface Water Body: Perennial Rivers, St Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream	treams, Creeks, Irrig	100' (Navajo Pits Only)
RE. KKS	Remarks: Site has been re-assessed, as a Surface Water Body. Site is Slance Canyon.	due to initial assess $4.50'$ vert	cal From Center of

### FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 9299 Location: Huerfavito No. 66  Operator #: 2999 Operator Name: Meridian P/L District: Ballard  Coordinates: Letter: H Section 26 Township: 26 Range: 9W  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: 6-22-94 Area: 1 Run: 91
	NMOCD Zone: Land Type: $\frac{\cancel{6}\omega}{\cancel{8}} \frac{6 \cdot \cancel{2} \cdot \cancel{4} \cdot \cancel{4}}{\cancel{1}}$
	(From NMOCD State (2)
	Maps) Inside $\square$ (1) Fee $\boxtimes$ (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)
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)
ASS	Horizontal Distance to Surface Water Body
	Less Than 200 Ft (20 points) (1)
SITE	200 Ft to 1000 Ft (10 points) 🗵 (2)
01	Greater Than 1000 Ft (0 points) [ (3)
	Name of Surface Water Body Blanco Canyon Wash
	(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: ZO POINTS
Y	Remarks: Two pits. Dip pit next to Meter. Dry
REMARK	
EM	Outside V.Z. on Topo
K	Justice V.Z. on RedIne



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	1w 361	946271
MTR CODE   SITE NAME:	92991	N/A
SAMPLE DATE   TIME (Hrs):	9-29-94	1445
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	10-3-94	
DATE OF BTEX EXT.   ANAL.:	414	~/ ~
TYPE   DESCRIPTION:	v G	from Sand & Clay
_		1
REMARKS:		

#### RESULTS

PARAMETER	RESULT	UNITS		QUALIFIE	RS
			DF	Q	M(g) V(ml)
TPH (418.1)	947	MG/KG			2.06 28
HEADSPACE PID	215	PPM			
PERCENT SOLIDS	85,9	%			

-- TPH is by EPA Method 418.1 --

	•	•		
Varrative:				
)F = Dilution Factor Used				<del></del>

Approved By:	J.	·	Date:	146/44	
	<i>-</i>	· ·		<i>U</i> (	

## FIELD PIT REMEDIATION/CLOSURE FORM

RA	Meter: 92991 Location: Huestanto #66
GENER/	Coordinates: Letter: # Section 12 Township: 26 Range: 9
ទ	Or LatitudeLongitude Date Started : <u>9-29-90</u> Run: <u>IL</u> <u>91</u>
NS	Sample Number(s): <u>Vw361</u>
ATIC	Sample Depth: Feet
OBSERVATIONS	Final PID Reading Feet
OBS	Yes No
FIELD	Groundwater Encountered 🔲 🖾 Approximate DepthFeet
FI	
	Remediation Method :
	Excavation Approx. Cubic Yards
	Onsite Bioremediation
SURE	Backfill Pit Without Excavation 🗵
CLOS	Soil Disposition:
	Envirotech L Tierra  Other Facility Name:
<u> </u>	Pit Closure Date: 9-29-94 Pit Closed By: BEZ
S	Remarks:
REMARKS	
REA	
	Signature of Specialist: Vale Wilses
	Signature of Specialist: Very (VIII)



CHAIN OF CUSTODY RECORD

						-					I CONTRACT I ABORATORY P. O. NUMBER
¥	PROJECT NUMBER	Project	NAME OSUTE 1	PROJECT NAME PIT Closure Project # 24324	74	A3 2A3		REO	REQUESTED ANALYSIS	SIS	
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#### RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

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

Borehole :	#	ВН-	1
Well#			/外
Page	1	of	a

Project Number	19643	Phase	1001.77	
Project Name	<b>EPFS PITS</b>	>10		_

Project Location Huer Fan 1749

Elevation	
Borehole Location	LTR: H S: 12 T: 26 R: 9
GWL Depth	NA .
Drilled By	K. PADILLA
Well Logged By	C. CHANCE
Date Started	6/16/98
Date Completed	b/11/98

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

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Depth	Sample	Sample	Type &	Sample Description	uscs	Lithology	l a	ir Monito	orina	Drilling Conditions
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Comments:

**Geologist Signature** 

#### RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road

armington, New Mexico 87401 5) 326-2262 FAX (505) 326-2388

Boreho	le#	BH- /
Well#	_	NA
Page	a	of 2

Project Number

19643 Phase 1001.77

Project Name EPFS PITS >10

Project Location Huer Fanito Unit #66

Elevation Borehole Location LTR: H S: 12 T:26 R:9 **GWL** Depth Drilled By K. PADILLA Well Logged By C. CHANCE **Date Started Date Completed** 

Drilling Method 4 1/4 ID HSA

Air Monitoring Method PID

			Sample			Depth	l			
Depth	Sample	Sample	Туре &	Sample Description	USCS	Lithology	Ai	r Monito	oring	Drilling Conditions
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CHAIN OF COMPANY PLASE # 501/ BOLINGS CHAIN OF CUEDY RECORD

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CARRIER CO.	38° F		3			-		EL PASO NATURAL GAS COMPANY
	CHARGE CODE					1		FARMINGTON, NEW MEXICO 87499
BILL NO.:						505-599-2144	-2144	FAX: 505-599-2261



#### FIELD SERVICES LABORATORY **ANALYTICAL REPORT** PIT CLOSURE PROJECT

#### **SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	CMC397	980491
MTR CODE   SITE NAME:	92991	Huerfanito Unit #66
SAMPLE DATE   TIME (Hrs):	6/16/98	1455
PROJECT:	Phase	e II Drilling
DATE OF TPH EXT.   ANAL.:	6/29/98	7/1/98
DATE OF BTEX EXT.   ANAL.:	6/18/98	6/18/98
TYPE   DESCRIPTION:	VG	SOIL

Field Remarks: 48-48.5

#### **RESULTS**

PARAMETER	RESULT	UNITS	DF	OUAU[F]. O	ES M(g)	
BENZENE	< 0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				·
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	<20	MG/KG				
HEADSPACE PID	142	PPM				
PERCENT SOLIDS	90.0	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at	95.3	% for this sample	All QA/QC was acceptable.
Narrative:		<del>-</del>	

_	_	<b>—</b>				
	-	4 3114	ITIMA	Factor		200
_	. –	$\boldsymbol{\nu}$	JUUIT	IOCIUI	u	36U

John Litch

#### GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

**CLIENT** 

: EL PASO FIELD SERVICES

AEN I.D.: 806384

PROJECT#

: (none)

PROJECT NAME

· PHASE II

PROJEC	INAME	: PHASE II					
SAMPLE			•	DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.		MATRIX	SAMPLED	<b>EXTRACTED</b>	ANALYZED	FACTOR
01	980490		NON-AQ	6/16/98	6/29/98	6/30/98	1
02	980491		NON-AQ	6/16/98	6/29/98	7/1/98	1
PARAME	TER	DET. LIMIT	UI	NITS	01	02	
FUEL HY	DROCARBONS, C6-C10	10	MC	S/KG	< 10	< 10	
<b>FUEL HY</b>	DROCARBONS, C10-C22	5.0	MC	S/KG	< 5.0	< 5.0	
FUEL HY	DROCARBONS, C22-C36	5.0	. МС	S/KG	< 5.0	< 5.0	
CALCULA	TED SUM:				•		•

90

89

ROGATE: 0-TERPHENYL (%) SURROGATE LIMITS

(66 - 151)

CHEMIST NOTES:

**N/A** 

#### GAS CHROMOTOGRAPHY RESULTS

#### **REAGENT BLANK**

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

**BLANK I.D.** 

: 062998

AEN I.D.

: 806384

**CLIENT** PROJECT# : EL PASO FIELD SERVICES

DATE EXTRACTED

: 6/29/98

: (none)

**DATE ANALYZED** 

: 6/29/98

**PROJECT NAME** 

: PHASE II

**SAMPLE MATRIX** 

: NON-AQ

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0

**PURROGATE**:

ERPHENYL (%)

103

**ORROGATE LIMITS** 

(80 - 151)

**CHEMIST NOTES:** 

N/A

Environmental Network (NM), Inc.

Ameri

PROJECT MANAGER:

COMPANY:

ADDRESS:

PHONE:

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ZS/92 PAGE: LOF L

Printed Name: Company Signature General Chemistry: Polynuclear Aromatics (610/8310) Base/Neutral/Acid Compounds GC/MS (625/8270) Herbicides (615/8151) Marlon Hoppex Pesticides /PCB (608/8081) Company. EPFS 8260 (Landfill) Volatile Organics A STATE OF THE 8560 (CUST) Volatile Organics 8260 (Full) Volatile Organics 8260 (TCL) Volatile Organics EDB () DBCb 1.409 REQUIRECTEOR RUSH PROJECTS NORMAL) X (TSUS) 1508 (HALO) (EDX) 1208 8021 (TCL) []OTHER 8021 (BTEX) | MTBE | TMB | PCE 8021 (BTEX)/8015 (Gasoline) (M8015) Gas/Purge & Trap []SDWA (MOD.8015) Diesel/Direct Inject Petroleum Hydrocarbons (418.1) TRPH CERTIFICATION REQUIRED: [] INM 172hr ૭ METHANOL PRESERVATION [] 87 HB ひたくない (RUSH) | 124hr | 348hr So LAmbdin 1455 1030 PRIOR AU NAVASE -2144 Arminoton, NM 16/16/8 1/14/18 PASO Field A bove HINEORMATION 980490 164086 Phose II PE0001

COMPANY:

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BILL TO:

ADDRESS:

SESTIMATE OF STREET

(LIEL BOOTEM) S-ST vd aleteM AROA

Target Analyte List Metals (23) Priority Pollutant Metals (13)

Metals:

(8) sisteM AROR

JS/98 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413

DISTRIBUTI**ON: White - ACM, C**anary - Origina

Time:

Signature:

COMMENTS: FIXED FEE

×

SHIPPED VIA:

ROTINAME

PLEASE FILL THIS FORM IN COMPLETELY.

POT TO

PROJECT

Oate:

Printed Name:

Company:

#### **BTEX SOIL SAMPLE WORKSHEET**

File	:	980490	Date Printed : 6/22/98
Soil Mass	(g) ::	5.00	Multiplier (L/g) : 0.00100
Extraction vol.	(mL) :	10	CAL FACTOR (Analytical): 200
Shot Volume	(uL) :	50	CAL FACTOR (Report): 0.20000

		DILUTION I	DILUTION FACTOR:		Det. Limit
Benzene	( <b>ug/L) : &lt;</b> 0.5	Benzene	(mg/Kg):	<b>#VALUE!</b>	0.500
Toluene	(ug/L) : <0.5	Toluene	(mg/Kg):	<b>#VALUE!</b>	0.500
<b>Ethylbenzene</b>	(ug/L) : <0.5	Ethylbenzene	(mg/Kg):	<b>#VALUE!</b>	0.500
p & m-xylene	( <b>ug/L)</b> : <1.0	p & m-xylene	(mg/Kg):	<b>#VALUE!</b>	1.000
o-xylene	( <b>ug/L</b> ) : <0.5	o-xylene	(mg/Kg):	<b>#VALUE!</b>	0.500
•		Total xylenes	(mg/Kg):	<b>#VALUE!</b>	1.500
		Total BTEX	(mg/Kg):	<b>#VALUE!</b>	