District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District II
1000 Rio Brazos Road, Aztec, NM 87410
Pistrict IV
220 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 Right

bedvock

bedvock

defined extent

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

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Meridian Oil Inc.	_ Telephone	8 TY 12 13 14 75 74
Address: 30 -039-28	15	DEC 2002
Facility Or: San Juan 28-5 Unit #75, Meter 7 Well Name	P	RECRIVED LCOHS.DIV.
Location: Unit or Qtr/Qtr Sec_G_Sec_17	7 T 28 R 5 County Ri	ô Arriba
Pit Type: Separator Dehydrator	X Other	
Land Type: BLM X, State , F	Cee Other	
Pit Location: Pit dimensions: length 28' (Attach diagram) Reference: wellhead X	, width <u>24'</u> , depth <u>4'</u>	
Footage from reference: 6	9'	
Direction from reference:150	Degrees <u>X</u> East North or West	
Depth To Ground Water	West Less than 50 feet	f South(20 points)
	o:West	f South
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet	South(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	f South

Date Remediation Starte	d: <u>07/05/94</u> Date completed: <u>07/05/94</u>
	Excavation Approx. cubic yards
Check all appropriate sections.)	Landfarmed Insitu Bioremediation
	Other Backfill pit without excavation
Remediation Location: (i.e. landfarmed onsite, name and location of	Onsite N/A Offsite N/A
offsite facility)	
General Description of R	Remedial Action: EPNG lines marked, Soil black, slight odor. Hit sandstone 5'.
Ground Water Encounter	red: No X Yes Depth
Final Pit: Closure Sampling:	Sample location _ Four walls and center of pit composite
(if multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth5'
100000000000000000000000000000000000000	Sample Date07/05/94 Sample time16:38
	Sample Results
	Benzene(ppm) Not reported.
	Total BTEX(ppm) Not reported.
	Field headspace(ppm) _203
	TPH <u>6610</u>
Ground Water Sample:	Yes No X (If yes, attach sample results)
I hereby certify that the in	nformation above is true and complete to the best of my knowledge and belief.
ate 1/8/03)	Printed Name Scott T. Pope and Title Senior Env. Scientist
Signature Just	T. / and Title Senior Env. Scientist



San Juan 28-5 Unit #75 Meter/Line ID 75901

SITE DETAILS

Legals - Twn: 28N Rng: 5W

NMOCD Hazard Ranking: 10 Operator: Meridian Oil Inc.

Sec: 17

Land Type: BLM

Pit Closure Date: 7/05/94



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.

A test pit was excavated to 5 feet (ft) below ground surface (bgs) where sandstone was encountered and 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 203 ppm; laboratory analysis indicated a TPH concentration of 6,610 mg/kg. The headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

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

A Phase II boring was completed to 21 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 20-21 ft bgs. Headspace analysis indicated an organic vapor content of 47 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 166 mg/kg. The benzene, TPH, and BTEX 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.
- Bedrock was encountered at 5 feet bgs making further excavation impractical.
- 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 21 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Benzene and BTEX were non-detect at the base of the Phase II soil boring.



PIT CLOSURE REQUEST

- TPH concentrations in the soil at 20 ft bgs were about 3% of the concentration at 5 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.
- Residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to human health and 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

REVISEDFIELD PIT SITE ASSESSMENT FORM

	Meter: 75901 Location: SAN JUAN 28-5 UNIT #75	
2		
GENER	Coordinates: Letter: G Section 17 Township: 28 Range: 5	
E	Or Latitude Longitude	
	Pit Type: Dehydrator × Location Drip: Line Drip: O	ther:
	Site Assessment Date: 4.29.98 Area: 10 Run: 71	
	NMOCD Zone: Land Type: BLM	(1)
	(From NMOCD State	☐ (2)
	Maps) Inside (1) Fee	☐ (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	
	Is it less than 1000 ft from wells, springs or other sources of fresh water	
SM	extraction?, or; Is it less than 200 ft from a private domestic water source?	
SITE ASSESSM	$\square (1) \text{ YES (20 points)} \qquad \square (2) \text{ NO}$	
SS	Horizontal Distance to Surface Water Body	(o points)
EA	Less Than 200 Ft (20 points) (1)	
	200 Ft to 1000 Ft (10 points) (2)	
S	Greater Than 1000 Ft (0 points) (3)	
	Name of Surface Water Body	
	(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals,	
Ì	Ditches, Lakes, Ponds)	
	Distance to Nearest Ephemeral Stream (1) < 100' (Navaj	o Pits Only)
	$\square (2) > 100'$	
S	TOTAL HAZARD RANKING SCORE: POINTS	
RKS	Remarks: Site has been re-assessed, due to initial assessment including	
	as a Surface Water Body. LOCATION IS IN A REMOTE AREA SOUTH OF (BERNADOR
H	UP ON A HILL.	
<u> </u>	4	

REVISEDFIELD PIT SITE ASSESSMENT FORM

GENERA	Meter: 7590 Location: San Juan 28 Operator #: Operator Name: Coordinates: Letter: Section To Or	P/L District: ownship: <u>△ १</u> Range: <u>5</u> de	
	NMOCD Zone: (From NMOCD		1) 2)
	Maps) Inside		3)
		(2) Indian	
	Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points)] (1)] (2) ~~ 4/8/97] (3)	
	Wellhead Protection Area		
ASSESSME	Is it less than 1000 ft from wells, springs or otl extraction?, or; Is it less than 200 ft from a private that the structure of the structure		
ES	$\square (1) YES (2)$	20 points) (2) NO (0 points)	nts)
YSS	Horizontal Distance to Surface Water Body		
E /	Less Than 200 Ft (20 points)	(1)	
SITE	200 Ft to 1000 Ft (10 points)	(2)	
	Greater Than 1000 Ft (0 points)	(3)	
	Name of Surface Water Body		
	(Surface Water Body: Perennial Rivers, Streams Ditches, Lakes, Ponds)	s, Creeks, Irrigation Canals,	
	Distance to Nearest Ephemeral Stream	\Box (1) < 100' (Navajo Pits	Only)
	TOTAL HAZARD RANKING SCORE:	POINTS	·
RKS	Remarks: Site has been re-assessed, due to	o initial assessment including was	hes
×	as a Surface Water Body. No well site is		
面	Need site visit to determine dept		· :
E.			

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 7590/ Location: San Juan 28-5-#75 Operator #: 2999 Operator Name: Mendion P/L District: Rloomfield Coordinates: Letter: G Section 17 Township: Z8 Range: 5 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 6-3-94 Area: _/O Run: _7/_
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM State (2) Fee (3) Indian Indian
	Depth to GroundwaterLess 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)
SITE ASS	1 Loop Them 200 Ft (20 m 1 t) [7]
	(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: POINTS
RKS	Remarks: One pit on location Pit is dry Location outside VZ.
REMARKS	on Recline map & Topo map. location just west of Gobernador Canyon near southwest terminus
1 14	

FIEL PIT REMEDIATION/CLOSUS FORM

	÷	
		Meter: 75901 Location: SAN Juan 28-5 # 75
GENERAL		Coordinates: Letter: <u>&</u> Section <u>/7</u> Township: <u>28</u> Range: <u>\$</u>
SEN SE		Or Latitude Longitude
		Date Started : 7-5-94 Area: 10 Run: 71
-	+	
SNS		Sample Number(s): MK 85
\A\T\(774	Sample Depth: Feet
OBSERVATIONS		Final PID Reading <u>2°3</u> PID Reading Depth <u>5'</u> Feet
) ac		Yes No
1	- 1	Groundwater Encountered (1) (2) Approximate Depth Feet
	115	
	_	
1		Remediation Method :
		Excavation (1) Approx. Cubic Yards
		Onsite Bioremediation \square (2)
100	UKE	Backfill Pit Without Excavation 🗵 (3)
5	SO	Soil Disposition:
[CL	Envirotech (1) (3) Tierra
		Other Facility (2) Name:
		Pit Closure Date: 7-5-94 Pit Closed By: BE I
	KS	Remarks: EPNG linus marked Soil Black Slight
	REMARKS	odok Mit sand stone 5'
17	6 3	
	<u>a</u>	
	[R]	Signature of Specialist: <u>Mwgan Xileion</u>



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FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	m K 85	945587
MTR CODE SITE NAME:	15 PM 99601 75901	N/A
SAMPLE DATE TIME (Hrs):	7.5-94	1638
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	7/7/94	7/7/94
DATE OF BTEX EXT. ANAL.:	NIA	N/Q
TYPE DESCRIPTION:	V G-	BIK/DK Braun mottled Clay

RESULTS

REMARKS:

PARAMETER	RESULT	UNITS		QUALIFIERS						
			DF	Q	M(g)	V(ml)				
BENZENE		MG/KG								
TOLUENE	·	MG/KG								
ETHYL BENZENE		MG/KG	ļ ·							
TOTAL XYLENES		MG/KG				·				
TOTAL BTEX		MG/KG								
TPH (418.1)	6610	MG/KG			1.07	28				
HEADSPACE PID	203	PPM				·				
PERCENT SOLIDS	83.7	%								

PERCENT SULIDS	02.7				
	-)	418.1 and BTEX is by EPA M			
rogate Recovery was at	10/17	% for this sample	All QA/QC	was acceptable.	
Jarrative:					
)F = Dilution Factor Used ()			7//	

				_		1		,		CONT. ACT LABORATORY P. C. NUMBER
Pit Cl	Pit Closure Project # 24324	# 24324				REQU	REQUESTED ANALYSI	IALYSIS		
9		DATE:	IUME TAIN!	PLE PE		20	_		95	
Marga Killio		7-5-84		SAM		802			ba	
TIME	MATRIX SAI	SAMPLE NUMBER			EPA	BT EPA			p.	REMARKS
8580 754 Pin	50:1 MK	× 78		46	メ				69	Soil from NO KUNGALAN
S & 7-5-84 10121	50% M	MK 79	-	<i>UG</i> .	+				70	51:54
7-5-94 11:32		MX 80	/	1/6	\times				7/	Soil Gray Strong Moracerdon
5583 75-84 12:42	1:05	18 Nu	/	1 PG	\times			·	72	Soil Grex Strong Hyprocerdon odor
02:81 hs-5-1 h855	50:1 m/	MK 82	1	VG	ኦ				73	د
75-84 41.12	50.1 MX 83	83	_	19	7	_			74	Soil Grafish Brown Slight Myoro sorban do.
757/5-35	1.8 /W 1.8	84	_	16	+				75	Soil Grayish Black Strong Hyprocarbal oba
55 87 7-5-8116:38	Sail BK 85	85	_	116	*				76	50:186ck 51.5ht
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										7
REQUESTED TURNAROUND TIME:		SAMPLE RECEIPT REMARKS	REMARKS					Re	RESULTS & INVOICES TO:	FIELD SERVICES LABORATORY
CARRIER CO.										EL PASO NATURAL GAS COMPANY P. O. BOX 4990
BILL NO:		CHARGE CODE		į		!			505-599-2144	FARMINGTON, NE

atory Canary - EPNG Lab Pink - Field Sampler

1-08-0565A (Rev. 03-94)

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

1000 Menroe Road Fall New Mexico 87401 1501 262 FAX (505) 326-2388

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10

Project Location SAN JUAN 28-5 #75 7590

Elevation

Borehole Location LTR: G S: 17 T: 28 R: 5

GWL Depth
Drilled By
Well Logged By
Date Started
Date Completed

LTR: G S: 17 T: 28 R: 5

NA

K. PADILLA

H. BRADBURY

10 / 21 / 98

Drilling Method 4 1/4 ID HSA

Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		Monitor nits: PP BH	-	Drilling Conditions & Blow Counts
5		Ë		EXCAVATION SAMPLE COLLECTED AT 5'						BZ=Breathing Zone BH≖Borehole S/HS≖Sample/Headspace
10	1	10-11			1		0	0	223 131	1133 hRS
15	2	15-16	1	LT GR.BR SANDSTONE, FINE SAND, 1010 CEMONTATION, dry			0	12	216	1147 hes
20	3	20-21	6	LT BR SANDS TONE, FINE SAND, low CEMENTATION, dry			0	17	167	1201 hrs
25				TOB 21						
30										
35				*						

nents:

HAB 47 20-21' SENT to lab for TPH BTEX, GW NOT ENCOUNTERED BH ABOUTED TO SUFFACE

Geologist Signature

H. Bradling

..nerica Environmental Network (NM), Inc.

SHADED AREAS ARE FOR LAB USE ONLY.

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1588 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413

PLEASE FILL THIS FORM IN COMPLETELY.

DISTRIBUTION: White - AEN, Canary - Originator

*8(087.1.1mm AEN(NM) Accession #:

BTEX SOIL SAMPLE WORKSHEET

File		:	980751	Date Printed :	10/27/98
Soil Mass	(g)	:	5.05	Multiplier (L/g) :	0.00099
Extraction vol.	(mL)	:	10	CAL FACTOR (Analytical):	200
Shot Volume	(uL)	:	50	CAL FACTOR (Report):	0.19802

		DILUTION	FACTOR:	7	Det. Limit
Benzene	(ug/L) : <0.5	Benzene	(mg/Kg):	#VALUE!	0.495
Toluene	(ug/L) : <0.5	Toluene	(mg/Kg):	#VALUE!	0.495
Ethylbenzene	(ug/L) : <0.5	Ethylbenzene	(mg/Kg):	#VALUE!	0.495
p & m-xylene	(ug/L) : <1.0	p & m-xylene	(mg/Kg):	#VALUE!	0.990
o-xylene	(ug/L) : <0.5	o-xylene	(mg/Kg):	#VALUE!	0.495
		Total xylenes	(mg/Kg):	#VALUE!	1.485

Total BTEX (mg/Kg): #VALUE!

Phase II Drilling CHAIN OF CUSTODY RECORD 13.3.88 Chain

						-						161	
# 24324	PitC	Pit Closure Project	Projec		893 893		-	REQUES	REQUESTED ANALYSIS	LYSIS		CONTRACT EMBORATORY F. C. NO.	, moen
SAMPLERS: (Signature)	ely	ly Braching	my	D/21/98	AL NUME	BAYT BAYT	418.1 EX 8020	0208 GI9		01			
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HELINOUISHED BY: (Signature)	nature)	٠ د	DATE	DATE/TIME RECEIVED BY: (Signatura)	nature)		RELI	NOUISHE	RELINQUISHED BY: (Signature)	ature)		DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
							H			$ \ $		10/25/48 10805	Jan Fall
GROUTINE GRUSH	UND TIME:			COOL + TATAC	TYTAC	F	36	3406		PESU	LTS & INVC	FIELD SERVICA	FIELD SERVICES LABORATORY
										. [P. O. BOX 4990	EL PASO NATUHAL GAS COMPANY P. O. BOX 4990
BILL NO.:				CHARGE CODE					•	505-5	505-599-2144	rariming i On,	NEW
1	•												



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB47	980751
MTR CODE SITE NAME:	75901	San Juan 28-5 #75
SAMPLE DATE TIME (Hrs):	10/21/98	1201
PROJECT:	Phase	e II Drilling
DATE OF TPH EXT. ANAL.:	10/30/98	10/30/98
DATE OF BTEX EXT. ANAL.:	10/26/98	10/26/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 20-21'

RESULTS

PARAMETER	RESULT	UNITS	Ď,r	OVALIFII O	:::S M(g)	V(ml)
BENZENE	<0.5	MG/KG				<u> </u>
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)	166	MG/KG	·			
HEADSPACE PID	47	PPM				
PERCENT SOLIDS	95.9	%				

TPH is by RPA Method 418 1 and RTHY is by RP - secthod 8020 -

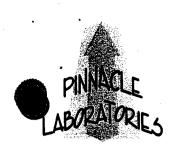
	IPH B by EPA Method 418.1 and BIEX is by Pro-	
The Surrogate Recovery was at	107.5 70 for this sample	All QA/QC was acceptable.
auve.		

DF = Dilution Factor Used

Approved By: _______

Date: _____///17/48





GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 810097

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

	PROJECTI	NAIVIE	. PHASE II DNI	LLING					
•	SAMPLE		-		DATE	DATE	DATE	DIL.	
	ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
	01	980754		NON-AQ	10/22/98	10/30/98	10/30/98	1	
	02	980753		NON-AQ	10/22/98	10/30/98	10/30/98	1	
	03	980751		NON-AQ	10/21/98	10/30/98	10/30/98	11	
•	PARAMETE	R	DET. LIMIT	UN	IITS	01	02	03	
	FUEL HYD	ROCARBONS, C6-C10	10	MG	/KG	< 10	< 10	16	
	FUEL HYD	ROCARBONS, C10-C22	5.0	MG	KG	< 5.0	< 5.0	150	
	FUEL HYDE	ROCARBONS, C22-C36	5.0	MG	6/KG	< 5.0	< 5.0	< 5.0	
	ALCULAT	ED SUM:						166.0	
	SURROGATO-TERPHE	NYL (%)	(66 - 151)			126	129	91	

CHEMIST NOTES:

N/A





GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 810097

PROJECT#

: (none)

· DHASE II DRII LING

PROJECT	NAME	: PHASE II DRI	LLING				
SAMPLE				DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980752		NON-AQ	10/22/98	10/30/98	10/30/98	1
PARAMET	ER	DET. LIMIT	UI	VITS	04		
FUEL HYD	ROCARBONS, C6-C10	10	MC	3/KG	< 10		
FUEL HYD	ROCARBONS, C10-C22	5.0	MC	3/KG	< 5.0		
FUEL HYD	ROCARBONS, C22-C36	5.0	MC	3/KG	< 5.0		
CALCULA	TED SUM:					•	

SURROGATE:

TERPHENYL (%)

URROGATE LIMITS (66 - 151) 114

CHEMIST NOTES:

N/A