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

Rishock bedrock defined extense of plane

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

PIT REMEDIATION AND CLOSURE REPORT

		11/1/20
Operator: Meridian Oil, Inc.	Telephone:	STATE OF THE PARTY
Address: 30-0	39-05442 m 01	2002 E
Facility Or: Tonkin Federal #4, Meter 74692 Well Name		<u> </u>
Location: Unit or Qtr/Qtr Sec_ISec_18_	T 24 R 3 County	2332 Priba
Pit Type: Separator Dehydrator		
Land Type: BLM, State, Fee _		
Pit Location: Pit dimensions: length 18', v (Attach diagram)	width <u>17'</u> , depth <u>4'</u>	-
Reference: wellhead X, of	ther	-
Footage from reference:72	· · · · · · · · · · · · · · · · · · ·	
Direction from reference: 125		of
		South
Depth To Ground Water (Vertical distance from	Less than 50 feet	(20 points)
contaminants to seasonal high water elevation of	50 feet to 99 feet Greater than 100 feet	(10 points) (0 points) <u>20</u>
ground water.)		
Wellhead Protection Area:		Yes (20 points)
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)		No (0 points) <u>0</u>
Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	(10 points)
lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Greater than 1000 feet	(0 points) <u>0</u>

Date Remediation Started: _	10/04/94 Date completed:10/04/94
Remediation Method: Exc	avation Approx. cubic yards
	er Backfill pit without excavation
Remediation Location: One (i.e. landfarmed onsite, name and location of offsite facility)	site N/A Offsite N/A
General Description of Rem	edial Action:10' sandstone. 20 yds. Fill
	· · · · · · · · · · · · · · · · · · ·
Ground Water Encountered:	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	Sample depth10'
locations and depths)	Sample Date Sample time 16:10
	Sample Results
	Benzene(ppm) Not reported
	Total BTEX(ppm) Not reported
	Field headspace(ppm) _264
	TPH <u>2740</u>
Ground Water Sample:	Yes NoX (If yes, attach sample results)
I hereby certify that the information	mation above is true and complete to the best of my knowledge and belief.
Date 1/8/03()	
Signature Scare	Printed Name Scott T. Pipe and Title Sonia ENV. Scientist



Tonkin Federal #4 Meter/Line ID 74692

SITE DETAILS

Legals - Twn: 24N

Rng: 3W

Sec: 18

NMOCD Hazard Ranking: 20 Operator: Meridian Oil Inc.

Land Type: Fee

Pit Closure Date: 10/04/94



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.

A test pit was excavated to 10 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 264 ppm; laboratory analysis indicated a TPH concentration of 2,740 mg/kg. The field headspace analysis and 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 19.5 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 19-19.5 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 13.8 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.
- 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 in combination with the imported clean fill 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 19 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Benzene and total BTEX concentrations were non-detect at the base of the Phase II boring.



PIT CLOSURE REQUEST

• TPH concentrations in the soil at 19 ft bgs were less than 1% 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.

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: 74962 Location: Tonkin	Federal #	4
\ \ \	Operator #: Operator Name:_	•	•
GENERA	Coordinates: Letter: Section Section Long	_ Township: <u> </u>	
	Pit Type: Dehydrator Location Dr		
	Site Assessment Date: 4/14/98	Area:	Run:
	NMOCD Zone:	Land Type:	BLM \square (1)
	(From NMOCD		State (2)
	Maps) Inside		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		
ASSESSMEN	Is it less than 1000 ft from wells, springs of extraction?, or; Is it less than 200 ft from a		
SES	(1) YE	ES (20 points)	(2) NO (0 points)
YSS	Horizontal Distance to Surface Water B	Body	
E	Less Than 200 Ft (20 points)	(1)	·
SITE	200 Ft to 1000 Ft (10 points)	(2)	
	Greater Than 1000 Ft (0 points)	X (3)	
	Name of Surface Water Body		
	(Surface Water Body: Perennial Rivers, Str Ditches, Lakes, Ponds)	eams, Creeks, Irrig	gation Canals,
	Distance to Nearest Ephemeral Stream	(1) <	100' (Navajo Pits Only)
	-	(2)	
	TOTAL HAZADD DANKDIG COOPE.	2D	
S	TOTAL HAZARD RANKING SCORE:		POINTS
KS	Remarks: Site has been re-assessed, or		
	as a Surface Water Body. Site is	<50 vertic	al from center
REM	of Medio Canyon		<u></u>
[K			

12/16/97

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 749bà Location: Jonkin Federal No. 4 Operator #: 2999 Operator Name: MDT P/L District: DJ ITD Coordinates: Letter: Section 18 Township: 24 Range: 3 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 8/3/94 Area: 08 Run: 83
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM (1) (From NMOCD State (2) (2) (2) (2) (2) (3) (2) (2) (3) (2) (2) (3) (2) (2) (3) (2) (2) (3) (2) (3) (2) (3) (2) (3) (3) (3) (3) (4) (3) (4) (3) (4) (3) (4) (
R.	Remarks: Realine Book-Inside VI 113 - 0
REMAR	pit. Will close Liquid in pit
 =	PUSH-IN



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW 374	946328
MTR CODE SITE NAME:	74962	N/A
SAMPLE DATE TIME (Hrs):	10-4-94	1610
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	10-6-94	
DATE OF BTEX EXT. ANAL.:	N 14	NIR
TYPE DESCRIPTION:	V 6	Brown sand & clay

REMARKS:	

RESULTS

	PARAMETER	RESULT	UNITS		QUALIFII	ERS	
				DF	Q	M(g)	V(ml)
	TPH (418.1)	2740	MG/KG			2.04	28
Н	EADSPACE PID	264	PPM				
PI	ERCENT SOLIDS	95.0	%				13 N

-- TPH is by EPA Method 418.1 --

Narrative:		•
		 <u> </u>
DE Diving France Head		

DF = Dilution Factor Used

Approved By:	D	Date:	16-13-94	
Approved By:	- (3)	 20,0.		

FIELD PIT REMEDIATION/CLOSURE FORM

CENEDAL	Meter: 74962 Location: Tonkin Federal #4 Coordinates: Letter: £ Section 18 Township: 24 Range: 3 Or Latitude Longitude Date Started: 10-4-94 Run: 08 83
FIELD OBSERVATIONS	
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: 10'59ulstone 20 xls Fill
	Signature of Specialist: Vale Wulsey

(SP3181) 03/16/84



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٩	PROJECT NUMBER	Г	IECT NA			-	-	L				CON	CONTRACT LABORATORY P. O. NUMBER
			S	sure P	Pit Closure Project # 24324	H36				REQUESTED ANALYSIS	YSIS	4.1	
100	SAMPLERS: (Signatura	<u> </u>	100	Low	DATE:	MUN JA	MUN JA MIATNO: MIATNO: MINES BANTE	Hc 1.814	8050 EX			<u> </u>	
	LABID D/	DATE TIN	TIME		SAMPLE NUMBER							605	REMARKS
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				I				$\ $			BESI	PESI II TS & INVOICES TO	
	REQUESTED TURNAROUND TIME:	D RUSH	IIME		TLWK6								FIELD SERVICES LABORATORY FI PASO NATIRAL GAS COMPANY
	CARRIER CO.				СНАЯ	CHARGE CODE					 	505-599-2144	F.O. BOX 4990 FARMINGTON, NEW MEXICO 87499
	White - Testing Laboratory	Laboratory	1	Canary - EPNG Lab	Lab Pink - Field Sempler			\$6.00 m	e i Torre della seementa in	, 3			FM-08-0565A (Rev. 03-94)

RECEIVED OF LABORATORY BY: (Signature) FIELD SERVICES/LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 Tookin Fell#4 14962 RECEIVED BY: (Signature) CONTRACT LABORATORY P. O. NUMBER Ships Gas 8/10/98 1855 DATE/TIME 9-3.98 Mus RESULTS & INVOICES # SEGNENCE 0 61015 P1D 0 REQUESTED ANALYSIS Company () 1050 II () 11/14) CHAIN OF CUSTODY RECORD **CAB PID** 81EX 6208 A93 H9T 7.814 A93 = Kng 46° COL + In tre [CHANGE CODE SAMPLE TYPE SAMPLE RECEIPT REMARKS TOTAL NUMBER OF CONTAINERS SOK JWS FIELD ID 8/9/8 1800 7,05 PROJECT NAME
PIT Closure Project MATRIX TIME 8/6/38 1150

5-16-61

REMARKS

DATE

LABID(

680829

SANIPLERS: (Signatu

#24324

REQUESTED TURNAROUND TIME: O RUSH

CARRIER CO. C ROUTINE

BILL NO:

FM-08-0565 A (Rev. 05-94)

FAX: 505-599-2261



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID	
SAMPLE NUMBER:	CMC408	980559	
MTR CODE SITE NAME:	74962	Tonkin Fed #4	
•	8/6/98	1150	
PROJECT:	Phase	II Drilling	
DATE OF TPH EXT. ANAL.:	8/13/98	8/14/98	
	8/10/98	8/11/98	
	VG	SOIL	
SAMPLE DATE TIME (Hrs):	8/6/98 Phase 8/13/98 8/10/98	1150 II Drilling 8/14/98 8/11/98	

Field Remarks: 19-19.5

RESULTS

PARAMETER	RESULT	UNITS		OUALIFIE	A STATE OF THE STA	
			DF		M(s)	Y(mi)
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)	13.8	MG/KG				
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	93.5	%				

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

The Surrogate Recovery was a	at <u>86.9</u>	_% for this sample	All QA/QC was acceptable.					
herative:	· :							
				·				
DF = Dilution Factor Used	D			:				
Annual Bu	In D		Date: 8/25	-40				

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

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

Borehol	e #	BH-	
Well#		NF	
Page	1	of	1

Project Number	19643	Phase	1001.7	77
Project Name	EPFS PITS	>10		
Project Location	T V:	2 4 4	#U	74017

Elevation	
Borehole Location	LTR: I S: 18T: 24 R:3
GWL Depth	₩
Drilled By	K. PADILLA C. LOVATU
Well Logged By	C. CHANCE
Date Started	8/6/98
Date Completed	011/00

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

	Drilling Conditions
(Feet) Number Interval Recovery (inches) Classification System: USCS Symbol Change (feet) BZ BH S/HS	Drilling Conditions
(inches) (feet) BZ BH S/HS BZ= BZ=	0 Dia O
0 82-81-81-8	& Blow Counts
0 BZ=	•
	Z=Breathing Zone
	l=Borehole
	HS=Sample/Headspace
	no-campierneauspace
 -	•
Excavation sample	
Collectel Q 10'	
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med Br Sandy CLAY, mod Fsand of stiff, med plastic, dry stiff, med plastic, dry lab silay-stand, dense	1
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	llathr lefusal@19/ llsbhr and spool
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20 2 (1795)	US hr
TOB 19.5	11504- 944 2600
30	
T 35	
<u></u>	

comments: Tank on pit. Will drill on assumed deungradient edge if pix. Will drill to at least and BBS to ensure accurate sample is obtained. CMC 40x (19-19: Sent to lab for BTEX, TPH. Returnal (219' warners

Geologist Signature



GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 808033

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

PRUJE		. FIIAGE II DIN	LLI140				
SAMPLE	E			DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980539		NON-AQ	8/3/98	8/13/98	8/14/98	1
02	980540		NON-AQ	8/3/98	8/13/98	8/14/98	1
03	980559	• ,	NON-AQ	8/6/98	8/13/98	8/14/98	1
PARAM	ETER	DET. LIMIT	UN	NITS	01	02	03
	YDROCARBONS, C6-C10	10	MG	S/KG	< 10	< 10	< 10
FUEL H	YDROCARBONS, C10-C22	5.0	MG	S/KG	22	< 5.0	5.4
EHEL H	YDROCARBONS, C22-C36	5.0	MG	i/KG	15	< 5.0	8.4
	LATED SUM:			÷	37		13.8
SURRO	=: ::	•					
O-TERP	PHENYL (%)				107	95	104
SURRO	GATE LIMITS	(66 - 151)					÷

CHEMIST NOTES:

N/A



GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 808033

PROJECT #

: (none)

PROJECT NAME

: PHASE II DRILLING

PROJECT NAME		DIVILLIA		·			
SAMPLE			DATE	DATE	DATE	DIL.	
ID. # CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
04 980560		NON-AQ	8/6/98	8/13/98	8/14/98	1 '	
05 980561		NON-AQ	8/7/98	8/13/98	8/14/98	1	
PARAMETER	DET. LIN	AIT U	NITS	04	05		
FUEL HYDROCARBONS, CO	6-C10 10	M	G/KG		< 10		
FUEL HYDROCARBONS, C	10-C22 5.0	M	G/KG	< 5.0	< 5.0		
FUEL HYDROCARBONS, C	22-C36 5.0	M	G/KG	< 5.0	< 5.0		
CALCULATED SUM:							
O-TERPHENYL (%) SURROGATE LIMITS	(66 - 15	1)		91	91		

CHEMIST NOTES:

N/A

America Environmental Network (NM), Inc.

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§	※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※ ※	980539	980540	980559	980860	98056						5E-18		리						
5	COMPANY: ADDRESS: PHONE: FAX: COMPANY: ADDRESS:			7	7	9						MELANTHOLIN LORINGIA	اۃ	PROJ. NAME: Phase		SHIPPED VIA:			Verlage.	60
PROJECT MANAGER: John	COMPAN ADDRES PHONE: FAX: BILL TO: COMPAN ADDRES												PROJ. NO.	z	P.O. NO.:	PEC			Action (A)	(S)
E													F.	Ĕ	0	툸				

PLEASE FILL THIS FORM IN COMPLETELY.

1/5/98 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413

BTEX SOIL SAMPLE WORKSHEET

File		: 98	30559	Date i	Printed:	8/12/98	
Soil Mass	(g)	:	5.12	Multiplier	(L/g) :	0.00098	
Extraction vol.	(mL)	:	10	CAL FACTOR (A	nalytical):	200	·
Shot Volume	(uL)	:	50	CAL FACTOR	(Report):	0.19531	
				DILUTION	FACTOR:	1	Det. Limit
Benzene (ug/L)	: <0.5		Benzene	(mg/Kg):	#VALUE!	0.488
Toluene (ug/L)	: <0.5		Toluen e	(mg/Kg):	#VALUE!	0.488

 Ethylbenzene
 (ug/L): <0.5</th>
 Ethylbenzene
 (mg/Kg): #VALUE!
 0.488

 p & m-xylene
 (ug/L): <1.0</th>
 p & m-xylene
 (mg/Kg): #VALUE!
 0.977

 o-xylene
 (ug/L): <0.5</th>
 o-xylene
 (mg/Kg): #VALUE!
 0.488

Total xylenes (mg/Kg): #VALUE! 1.465

Total BTEX (mg/Kg): #VALUE!