District I 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

1220 South St. Francis Dr. Santa Fe, NM 87505

State of New Mexico bedvock
Energy Minerals and Natural Resources defined
Oil Conservation Division
1220 South St. Francis Dr.

Plune

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		
Address: 3	17-679-127711		
Facility Or: San Juan 28-6 #71A, Meter Well Name	93179		
Location: Unit or Qtr/Qtr Sec_NO Sec_	13 T 28 R 6 County	Rio Arr	iba
Pit Type: Separator Dehydrator_	X Other	1001	0*11*128
Land Type: BLM, State,	Fee X Other	891	FO : 50 20
Pit Location: Pit dimensions: length 26' (Attach diagram) Reference: wellhead X		ON CX DIS	EC 2002 DENVED DIVS. DIV.
Footage from reference:	69'	E 82 1	292524266
Direction from reference:	358 Degrees X East North	ı	
	•	of t Sout	
Depth To Ground Water	Less than 50 feet	··	(20 points)
(Vertical distance from	50 feet to 99 feet		(10 points)
contaminants to seasonal high water elevation of ground water.)	Greater than 100 feet		(0 points) <u>10</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)			(20 points) (0 points) <u>20</u>
Distance To Surface Water:	Less than 200 feet		(20 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	200 feet to 1000 feet Greater than 1000 feet		(10 points) (0 points) <u>10</u>
	RANKING SCORE (TOTAL POI	NTS):	40

Date Remediation Started:	03/27/95 Date completed:03/27/95
Remediation Method: Exc	cavation Approx. cubic yards
	Insitu Bioremediation Der 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	nedial Action: Some line markers. Dug a test hole to 3', took sample. Soil looked gray
with H.C. odor. Hit sandstor	ne at 3°. Closed pit.
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 locations and depths)	Sample depth3'
locations and dopins,	Sample Date03/27/95 Sample time15:10
	Sample Results
	Benzene(ppm) Not reported
	Total BTEX(ppm) Not reported
	Field headspace(ppm) _384
	TPH <u>2690</u>
Ground Water Sample:	Yes NoX (If yes, attach sample results)
I hereby certify that the infor	rmation above is true and complete to the best of my knowledge and belief.
Date 1/8/03()	\bigcap $C_{i+} + \bigcap$
Signature	Printed Name Scott T. Pope and Title Senier Face Scientist



San Juan 28-6 #71A Meter/Line ID 93179

SITE DETAILS

Legals - Twn: 28N

NMOCD Hazard Ranking: 40 Operator: Meridian Oil Inc.

Rng: 6W Sec: 13

Land Type: Fee

Pit Closure Date: 3/27/9

Unit: 1

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 3 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 384 ppm; laboratory analysis indicated a TPH concentration of 2,690 mg/kg. The headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 40.

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. The site is approximately 950 feet from an unnamed well.

A Phase II boring was completed to refusal at 12 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 10-11 ft bgs. Headspace analysis indicated an organic vapor content of 65 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, TPH, and BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

El Paso Field Serivces 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 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 12 ft bgs.
- While there is a well 950 ft from the pit, Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 12 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.
- Bedrock refusal was encountered at 3 feet bgs making further excavation impractical.



• Residual hydrocarbons, if any, in the soil 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

REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 93179 Location: SAN JUAN 28-6 UNIT #71A Operator #: Operator Name: Butungton Res. P/L District: Coordinates: Letter: O Section 13 Township: 28 Range: 6 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 4.30.98 Area: 10 Run: 91			
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM State (2) Fee (3) 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				
SITE ASSESSME	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)			
	(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100' (Navajo Pits Only) (2) > 100'			
70	TOTAL HAZARD RANKING SCORE: 40 POINTS			
REM	Remarks: Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Location 15 At the BASE of A BLUFF ON A SMALL RISE ABOVE FOURMILE CANYON, THELE IS A WELL APPROXIMATELY 950' AWAY.			
<u>~</u>	(accepts) 12/16/97			



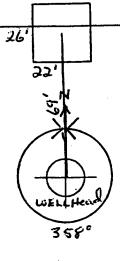
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 93179 Location: Sandwar 28-6 # 71 A Operator #: Operator NameMERIDIAN P/L District: Block Site Assessment Date: Location Drip: Line Drip: Other: Site Assessment Date: Area: Run: PL Meter: 93179 Location: 28-6 # 71 A Description: 28-6 # 71 A Operator #: Operator NameMERIDIAN P/L District: Block Site Assessment Date: 28-6 # 71 A Operator #: Operator NameMERIDIAN P/L District: Block Site Assessment Date: 28-6 # 71 A Operator #: Operator NameMERIDIAN P/L District: Block Site Assessment Date: 28-6 # 71 A Operator #: Operator NameMERIDIAN P/L District: Block Site Assessment Date: Area: 28-6 # 71 A Operator #: Operator NameMERIDIAN P/L District: Block Site Assessment Date: Area: Area: Observed Site Assessment Date: Area: Area: Observed Site Assessment Date: Area: Area: Operator NameMERIDIAN P/L District: Block Site Assessment Date: Area: Area: Observed Site Assessment Date: Area: Area: Observed Site Assessment Date: Area: Area: Area:			
·	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) 50 Ft to 99 Ft (10 points) 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	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 Four Mile Canyon Was h			
	(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			
IARK	Remarks: Redhine shows outside Topo shows outside VZ 2 pits on Loc. One has Deby in service with Liner, Old			

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 358° Footage from Wellhead 69'

b) Length : 26' Width : 22' Depth : 3'



Remarks	:

Photos: 1040

.

Completed By:

Signature

3/8/95 Date



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 469	946763
MTR CODE SITE NAME:	93179	N/A
SAMPLE DATE TIME (Hrs):	3-27-95	15ID
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	3 28 95	3/28/95
DATE OF BTEX EXT. ANAL.:	NIA	N /A
TYPE DESCRIPTION:	V G-	Light brown sand & clay

RESULTS

PARAMETER 2	RESULT	UNITS		QUALIFIE	10.00
			DF_	Average Q	M(g) V(ml)
TPH (418.1)	2690 2695	रम्य भेक विट MG/KG			2.04 28
HEADSPACE PID	384	PPM			
PERCENT SOLIDS	89.0	%			

- TPH is by EPA Method 418.1 -

Narrative:	
	-
	_

DF = Dilution Factor Used

	\ O	
A red By:	181 -	

Date: 4/6/85

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93179 Location: SAN JUAN 28-6 # 71A Coordinates: Letter: N. Section 13 Township: 28 Range: 06 Or Latitude Longitude Date Started: 3-27-95 Run: 10 91
FIELD OBSERVATIONS	Sample Number(s): KP 469 Sample Depth: 3' Feet Final PID Reading 184 PID Reading Depth 3' Feet Yes No Groundwater Encountered X Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
TREMARKS	Remarks: Some Like markers. dug a test hale to 3/12/ took Sample. Soil Looked gray. with the older. Hit same stone closed Pit. Hit sand Stone At 3'
	Signature of Specialist: Kelly Padella

	핉
0	
Ä	ŭ
	2
	2
Ш	Ž
0	1

CHAIN OF CUSTODY RECORD

Page.

422 At 12' Soil dork gray with A H.c aRdOR. 424 At 12' soil dark gray with a HIC ORGUT HECEIVED OF LABORATORY BY: (Signature) EL PASO NATURĂL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261 FIELD SERVICES L'ABORATORY RECEIVED BY: (Signature) At 12' soil dack gipy with 43 Hit SANG STONE AS 3' REMARKS Al 10' Hit SAND STONE CONTRACT LABORATORY P. O. NUMBER 100/ RESULTS & INVOICES TO: 12 3 505-599-2144 # ZEONENCE REQUESTED ANALYSIS HELINQUISHED DY: (Shpudard) RELINISHED BY: (Signatur ぞえろ **CAB PID** X3T8 EPA 8020 R_S EPA 418.1 HqT. 2 3 <u> </u> \$ SAMPLE 8 SAMPLE RECEIPT REMARKS TOTAL NUMBER SRBNIATNOD 90 NECEIVED BY: (Symatima) DATE/TIME 3/0 RECEIVED BY: (Signature) CHARGE CODE FIELD 10 3-27-95 1KP 468 464 KP 465 KP 469 KP 462 KP 466 KP 470 1800 Pit Closure Project MATRIX 3-27-95 32795 0945 50:1 Seil 20 ! Soil 1:05 12.25 1425 Soil So./ 3-2745 0950 TIME 3-27-95 1510 3-27-8 1630 3-27-95 10945 32795 1145 DATE REQUESTED TURNAROUND TIME: O RUSH 946760 94 67 b 3 946759 94 67 64 946762 RELINQUISHED BY: SAMPLERS: (Signatu 94 L758 PROJECT NUMBER # 24324 946761 LABID C ROUTINE CARRIER CO. BILL NO.:

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

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

LECORD OF SUBSURFACE EXPLORATION

HILIP_SERVICES CORP. w Mexico 87401 52 FAX (505) 326-2388 Borehole # Well #

Project Number 19643 Ph Project Name EPFS PITS >10

Phase 1001.77

Project Location SAN JUAN

levation orehole Location LTR: N S: 13 T: 28 R: 6 WL Depth K. PADILLA rilled By **Jell Logged By** H. BRADBURY ate Started ate Completed

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)	ľ	Monitor nits: PP 8H	~	Drilling Conditions & Blow Counts
				EXCAVATION SAMPLE COLLECTED AT 3' LTBR SILTSTONE. IOW CEMENTATION, LRY					1.2	BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5	•	5-6	(2	IOW CEMENTATION, LRY			0	0.	765	1048 hRS
10	Z	10-11	12	LT BR SILTSTONE. low-mod cementation, ly			D	3.	122	1048 hRS
15				TOB 12'						
20							-	·		
25									·	
- - - - 35										
- - -										·
40		HAB	73	(10-11') SENT to lab	1	, ,	OH	R	TE	X GW NOT

Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB73	980822
MTR CODE SITE NAME:	93179	San Juan 28-6 #71A
SAMPLE DATE TIME (Hrs):	11/17/98	1102
PROJECT:		e II Drilling
DATE OF TPH EXT. ANAL.:	11/23/98	11/27/98
DATE OF BTEX EXT. ANAL.:	11/19/98	11/20/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 10-11'

RESULTS

Tail Carl Decree of The	i			et/Aufall	
PARAMETER	RESULT	UNITS	DF.	0	Y(m))-
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	65	PPM			
PERCENT SOLIDS	95.4	%			

-- TPH is by EPA Method 8015 and BTEX is by EPA Method 8020 --

	TPH is by EPA Method	1 8012 and BIEX is by EPA Men	100 8020	
Surrogate Recovery was at ative:	99.1	% for this sample	All QA/QC was acceptable.	
DF = Dilution Factor Used	. 8 0			
A	and cally a		Date: 12/21/98	





GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 811074

PROJECT #

: (none)
: PHASE II DRILLING

PROJECT	NAME	: PHASE II DRI	LLING				5.11
	IVANE			DATE	DATE	DATE	DIL.
SAMPLE		•	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
ID. #	CLIENT I.D.			11/16/98	11/23/98	11/26/98	1 .
01	980817	•	NON-AQ		11/23/98	11/26/98	1
02	980818		NON-AQ	11/16/98		11/26/98	1
03	980819		NON-AQ	11/16/98	11/23/98		
PARAMET		DET. LIMIT	UN	IITS	01	02	03
FARAMET	ROCARBONS, C6-C10	10	MG	KG	45	< 10	12
FUELHYD	ROCARBONS, CO C.10	5.0	MG	/KG	400	< 5.0	52
FUEL HYD	ROCARBONS, C10-C22			s/KG	150	< 5.0	14
L HYD	ROCARBONS, C22-C36	5.0	1410	S/ICO	595		78
CULA"	TED SUM:				232		, ,
SURROGA	ATE:						0.4
					118	86	84
O-TERPHE		(66 - 151)					
SURROGA	ATE LIMITS	(00-101)					

CHEMIST NOTES:

N/A



PINNACLE I.D.: 811074



GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT) : EL PASO FIELD SERVICES

CLIENT

PROJECT#

: (none)

ISOT MANE	: PHASE II DRI	HING					_
PROJECT NAME	. THACE IT DIKE		DATE	DATE	DATE	DIL.	
SAMPLE		MATDIV	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
ID. # CLIENT I.D.	,	MATRIX		11/23/98	11/26/98	1	_
04 980820		NON-AQ	11/16/98				
05 980821		NON-AQ	11/16/98	11/23/98	11/26/98		
06 980822		NON-AQ	11/17/98	11/23/98	11/27/98	1	_
PARAMETER	DET. LIMIT	UN	IITS	04	05	06	_
FUEL HYDROCARBONS, C6-C10	10	MG	/KG	240	15	< 10	
FUEL HTDROCARBONS, CO-CTO	5.0	MG	s/KG	130	< 5.0	< 5.0	
FUEL HYDROCARBONS, C10-C22		•	/KG		< 5.0	< 5.0	•
EL HYDROCARBONS, C22-C36	5.0	IVIC	n NG	• •			
LCULATED SUM:	•			410	15.0		
SURROGATE: O-TERPHENYL (%) SURROGATE LIMITS	(66 - 151)			87	90	84	

CHEMIST NOTES:

N/A

BTEX SOIL SAMPLE WORKSHEET

File Soil Mass Extraction vol. Shot Volume	(mL) :	980822 5.06 10 50	Multiplier (L/g) : 0.00 CAL FACTOR (Analytical): CAL FACTOR (Report): 0.19	0099 200 9763
Benzene (t	ug/L) : <	0.5	DILUTION FACTOR: 1 Benzene (mg/Kg): #VAL Toluene (mg/Kg): #VAL	UEI 0.494
Toluene (t	ug/L) : <	0.5		UEI 0.494

 Toluene
 (ug/L): <0.5</th>
 Ethylbenzene
 (mg/Kg): #VALUE!
 0.494

 Ethylbenzene
 (mg/Kg): #VALUE!
 0.494

 p & m-xylene
 (mg/Kg): #VALUE!
 0.494

 o-xylene
 (mg/Kg): #VALUE!
 0.494

 Total xylenes
 (mg/Kg): #VALUE!
 1.482

Total BTEX (mg/Kg): #VALUE!

11/23/98

BEILES Phase II Driffing
Natural Gas Company

CHAIN OF CUSTODY RECORD

12.12.28.50 Arel. 12.39.90 Blow.

				100	L			<u> </u>						 —г				
CONTRACT LABORATORY P. O. NUMBER			REMARKS	SAN JUAN 28-6#71A 93179141/1/2											DATE/TIME RECEIVED BY: (Signature)	11/18/98 1048 DEMONATORY BY: (Signatura)	RESULTS & INVOICES TO: FIELD SERVICES LABORATORY FIELD SERVICES LABORATORY	P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499
		#)ENCE		133						٠.	/_				N		SULTS & IN	505-599-2144
	SIS	or:	19	53					8	<u> </u>					alura)	[euniar	<u> </u>	8
	D ANAL	SIG	38	>										 		OR SAN	4	
	REQUESTED ANALYSIS	ala t						///				<u> </u>		 	RELINQUISHER BY: (Signature)	RELINDUISHED BY	Jets.	
	Be	8020 EX		7											REUN		1	
		Hc 1.814	IT A93	. ~			7	Ø	/_						M.		B	
		SAMPLE		V 6			7	5/									HKS /	
	A36 283	AL NUME	TOT 0 =0	_				/							Signature)	(Signature)	PT REMA	
		11/17/18	FIELD ID	AB13											RECEIVED BY (Signatura)	RECEIVED BY: (9	SAMPLE RECEIPT REMARKS COOL # 1,	CHARGE CODE
		A PATE		HA					·				;		DATE/TIME	DATE/TIME		
	roject	4- Brockwar	MATRIX	Seil						ļ					MWY WITH 1628	DAT		
	Pit Closure Project	8	TIME	! 		/										*		
PROJECT NAME	Clos	147	DATE T	11/1/18 1/02		1			-						-) TIME:	
LORG I	E		ă	2 11		/					-	-	-		D BY: (Signature)	Y: (Signatu	INAROUND O RUSH	
PROJECT NUMBER	# 24324	SAMPLERS: (Signature)	LABID	Strate											RE NOUSHED BY	RELINQUISHEOBY: (Signature	12	CARRIER CO. BILL NO.: