Pistriet I.
1625 N. French Dr., Hobbs, NM 88240
District III
1301 W. Grand Avenue, Artesia, NM 88210
District IIII
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 bedrock defoned 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: Amoco	Telephone:	5670	<b>3</b> 10 // <b>2</b>
Address:30 -045	11655 m	DE(	2002
Facility Or: Florance B#1, Meter 75829 Well Name		Dia Con	NG. DIV. 3
Location: Unit or Qtr/Qtr Sec_E_Sec_	22 T 30 R 9 County	San Ju	2 12 Comment
Pit Type: Separator Dehydrator	Other <u>Drip</u>		<del></del>
Land Type: BLM X, State	, Fee Other		
Pit Location: Pit dimensions: length <u>29</u> (Attach diagram)  Reference: wellhead X	, other		
Footage from reference:			
Direction from reference: _	274 Degrees X East North		
Direction from reference: _		$\mathbf{f}$	
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	C	South	. <del>-</del>
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet	South Yes	(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	South Yes No	(20 points) (10 points) ( 0 points)10

Date Remediation Started:	05/17/94 Date completed: <u>05/17/94</u>
Remediation Method: Excav	ration Approx. cubic yards
<u> </u>	Insitu Bioremediation  Backfill Pit Without Excavation
(i.e. landfarmed onsite, name and location of offsite facility)	te N/A Offsite N/A  dial Action: No line markers, sandstone at 4'.
Ground Water Encountered:	NoX 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 depth 4'
	• • •
locations and depths)	Sample Date Sample time
locations and depths)	
locations and depths)	Sample Date05/17/94 Sample time16:50
locations and depths)	Sample Date Sample time Sample Results
locations and depths)	Sample Date Sample time
	Sample Date
Ground Water Sample:	Sample Date05/17/94 Sample time16:50  Sample Results  Benzene(ppm)Not reported  Total BTEX(ppm)Not reported  Field headspace(ppm)166
Ground Water Sample:	Sample Date
Ground Water Sample:	Sample Date



#### Florance B#1 Meter/Line ID 75829

SITE DETAILS

Rng: 9

Legals - Twn: 30N

**NMOCD Hazard Ranking: 10** 

Operator: Amoco

Sec:22 Unit: E

Land Type: BLM

Pit Closure Date: 05/17/

#### 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 4 feet (ft) below ground surface (bgs) where bedrock 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 166 ppm; laboratory analysis indicated a TPH concentration of 24,800 mg/kg. The field 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 with refusal at 6 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 5-6 ft bgs. Headspace analysis indicated an organic vapor content of 56 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 960 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.
- Residual hydrocarbons in the soil will degrade by natural attenuation with minimal risk to the environment.
- 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 that reached 6 ft bgs; geologic features in the area indicate the depth to groundwater is at least 50 feet bgs.



#### PIT CLOSURE REQUEST

- 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 2 soil boring were below their respective OCD Hazard Ranking criteria.
- TPH concentrations at 6 ft bgs are less than 10% of what they are at 4 ft bgs, indicating that significant downward migration is not occurring.
- Bedrock encountered at 4 ft bgs makes further excavation impractical.

#### **ATTACHMENTS**

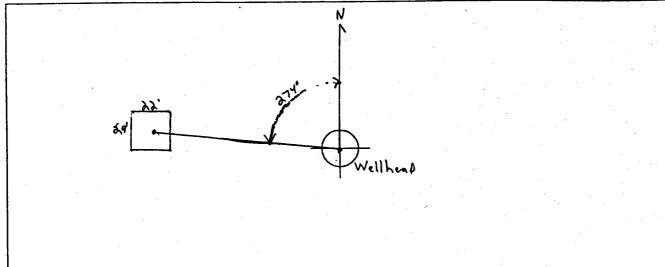
Field Pit Assessment Form Revised Field Pit Assessment Form Field Pit Remediation/Closure Form Phase 2 Soil Boring Log Laboratory Analytical Results

## FIELD PIT SITE ASSESSMENT FORM

	GENERAL	Meter: 75829 Location: Florence B #/ Operator #: <u>D20)</u> Operator Name: <u>Anoco</u> P/L District: <u>Bloom Fiell</u> Coordinates: Letter: <u>F</u> Section 22 Township: <u>J0</u> Range: 9_ Or Latitude Longitude Pit Type: Dehydrator Location Drip: X_ Line Drip: Other: Site Assessment Date: 4/25/94 Area: <u>JD</u> Run: <u>JD</u>
		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)
	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
		(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: 10 POINTS
1	SkS	Remarks: Redline shows inside V-A Topo shows outside Vulnerable Aray
	REMARKS	Only pit on location. Dry pit
	RE	(P.,,LT.

#### ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 274° Footage from Wellhead 103



Remarks:		
Pictures taken at 10:54 a.m.		•

Fictures taken at 10:54 a.m.

End Dump

Completed By:

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

GENERAL	Meter: 75829 Location: Florance R#/ Operator #: Operator Name: P/L District:  Coordinates: Letter: E
	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Land Type:  BLM  State  (2)  Fee  (3)  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)  (3)
SITE ASSESSMEN	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 AS	Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)   200 Ft to 1000 Ft (10 points)   Greater Than 1000 Ft (0 points)   Name of Surface Water Body
	(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  Distance to Nearest Ephemeral Stream  (1) < 100' (Navajo Pits Only)  (2) > 100'  TOTAL HAZARD RANKING SCORE: POINTS
REM, KKS	Remarks: Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is < 100' vertical From Center of Caballo Canyon  (85885) 12/16/97



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

## SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	VW 99	945216		
MTR CODE   SITE NAME:	75829	N/A		
SAMPLE DATE   TIME (Hrs):	5-17-4-/	1615		
SAMPLED BY:		J/A		
DATE OF TPH EXT.   ANAL.:	5-18-94	5/18/94		
DATE OF BTEX EXT.   ANAL.:	NA	NIA		
TYPE   DESCRIPTION:	V6	Course black oily sand		

REMARKS:		

#### RESULTS

	RESULT	UNITS		QUALIFIE	Major y Massesser	
PARAMETER			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	24800	MG/KG			.26	28
HEADSPACE PID	166	PPM				11.5
PERCENT SOLIDS	92.8	%				

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

I'm is by er	Wathod 410.1 and DIEX is by Elix		
The Surrogate Recovery was at	% for this sample	All QA/QC was acceptable.	
rtive:			
DF = Dilution Factor Used		Date: 5/21/44	

GEI T	Meter: 75824 Location: Florence B#/  Coordinates: Letter: E Section 22 Township: 30 Range: 9  Or Latitude Longitude  Date Started: 5-17-94 Area: 10 Run: 33
FIELD OBSERVATIONS	Sample Number(s): \( \psi \psi \psi \psi \psi \psi \psi \psi
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: NO Line Markers. Sandstone 4
,	Signature of Specialist: Lale Wilsen





~		~	
Page 2	o	_	

		PROJECT N	AME		<del></del>				<del></del>		· · · · · ·			CONT'ACT LABORATORY P. O. NUMBER
PROJECT N	IUMBEH	Pit Cle	osure l	Project # 24324		ERS				DUESTE	ANALY	SIS		
SAMPLERS	(Signature)	^		DATE:		PAIN	SAMPLE TYPE	8.1	20					
(	lale	NJA	N	5-17-	4	TOTAL NUMBER OF CONTAINERS	SA. T	PH 41	XE 8		l		#	
LABID	DATE		MATRIX	SAMPLE NUM	BER	5 P		ТРН ЕРА 418.1	BTEX EPA 8020				\ 2,92,	REMARKS
52,4	5-17-44	1450	Soil	VW97		1	Viz	X					86	
5215	5.17.94	1515 V <del>1615</del>	50.1	VW98		1	16	X					87	
5216	5-1790	1		1W99		1	V67	X					88	
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Vale	SHED BY: (S	) Acs)		DATE/TIME 35 PR	CEIVED BY: (Signa Standard ECEIVED BY: (Signa	4	Ru	la		DUISHED E	la	Li.	el l	32 DATE/TIME RECEIVED BY: (Signature)  5/8/4/0953  DATE/TIME RECEIVED OF LABORATORY BY: (Signature)
RELINGUI	SHED BY: (5	ignature;		DATETIME	EGEITED DT. (SIGN		-							+ Kink
ROUTI		OUND TIME:		S.	AMPLE RECEIPT R	EMARK	s					RESUL	TS & IN	FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY
CARRIER	CO.					٠.					· .			P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499
BILL NO.:			•	C	HARGE CODE							505-5	99-214	CAV FOE 500 0001

## RECORD OF SUBSURFACE EXPLORATION

HILIP SERVICES CORP.

Road

Arm New Mexico 87401

SOS) 326-2262 FAX (505) 326-2388

Borehol	e#	вн-	
Weil#			
Page	1	of	
Page		_ 0 .	

Proje	ct Number	19643	Phase	100	1.77	
	ct Name	EPFS PITS				
Proje	ct Location	FIORA	NCE B	#/_	75829	

Elevation				
3orehole Location	LTR:	C	S: 22 T:	30 R:9
3WL Depth				
Orilled By	K. PA	DIL	LA	
Nell Logged By	H. BR	ΑD	BURY	
Date Started	1	0/2	28/98	
Date Completed				

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

epth Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		Monitor nits: PF BH	•	Drilling Conditions & Blow Counts
_ 0		:		EXCAUATION SAMPLE COLLECTED AT 4'			U	ŏ	345 <b>56</b>	BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace hARd 1247 hRs dRilling
10	2			SAND, MOD CEMENTED, LAY					56	POOR SAMPLE SAMPLE NEST VERY DOWN ?
15	3									down ; got Anuth hRS 1257,
25										
30										
35										
- - - - 40					·					

to

Geologist Signature Holly Bushin



## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

## SAMPLE IDENTIFICATION

	Field ID	Lab ID				
O AND S AN IMPER.	HAB54	980761				
SAMPLE NUMBER:	75829	Florance B #1				
· · · · · · · · · · · · · · · · · · ·	10/28/98	1257				
MTR CODE   SITE NAME:  SAMPLE DATE   TIME (Hrs):  PROJECT:	Phase !! Drilling					
DATE OF TPH EXT.   ANAL.:	11/9/98	11/9/98				
DATE OF BTEX EXT.   ANAL.:	11/3/98	11/6/98				
TYPE   DESCRIPTION:	VG	SOIL				

Field Remarks: 5-6'

## **RESULTS**

	RESULT	UNITS	QUALIFIERS						
PARAMÈTER	NESULI,	UNITO.	DF	· · · Q	M(g)	V(ml)			
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)	960	MG/KG							
HEADSPACE PID	56	PPM							
PERCENT SOLIDS	93.7	%	374						

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

te Surrogate Recovery was at	100.0	% for this sample	All QA/QC was acceptable.	
DF = Dilution Factor Used	7			
Approved By:	aldr		Date: 12/3/48	





## GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 811012

PROJECT#

: (none)

•			I I INI/2				
PROJECT	NAME	: PHASE II DRI	LLIIVG	DATE	DATE	DATE	DIL.
SAMPLE		•	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
ID. #	CLIENT I.D.		NON-AQ	10/28/98	11/9/98	11/9/98	1
01	980760		NON-AQ	10/28/98	11/9/98	11/9/98	1
02	980761		NON-AQ	10/28/98	11/9/98	11/10/98	1
03	980762	DET. LIMIT		IITS	01	02	03
PARAMET	ER C6 C10	10		/KG	< 10	20	< 10
FUEL HYD	ROCARBONS, C6-C10	5.0		s/KG	5.1	480	5. <b>5</b>
EUEL HYD	ROCARBONS, C10-C22	5.0		KG	< 5.0	460	< 5.0
	ROCARBONS, C22-C36	5.0		,,,,,	5.1	960	5. <b>5</b>
C.LCULA	TED SUM:			•			
			•				
SURROGA					131	156 **	125
O-TERPHE		(66 - 151)				•	
SURROGA	TE LIMITS	(55 151)					to a contract of the contract

CHEMIST NOTES:

<sup>\*\*=</sup> HIGH SURROGATE RECOVERY DUE TO MATRIX INTERFERENCE.



**PINNACLE I.D.: 811012** 



## GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

: (none)

PROJECT #

	NAME	: PHASE II DRI	LLING				
PROJECT	NAME			DATE	DATE	DATE	DIL.
SAMPLE	·		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
ID. #	CLIENT I.D.		NON-AQ	10/29/98	11/9/98	11/10/98	1
04	980763			10/29/98	11/9/98	11/10/98	1
05	980764		NON-AQ	10/29/98	11/9/98	11/10/98	1
06	980765		NON-AQ		04	05	06
PARAMET	ER	DET. LIMIT		NTS		< 10	< 10
FUEL HYD	ROCARBONS, C6-C10	10	MG	s/KG	00		
BAICI UVE	ROCARBONS, C10-C22	5.0	MG	s/KG		< 5.0	< 5.0
EL HIL	ROCARBONS, C22-C36	5.0	MG	s/KG	40	< 5.0	< 5.0
	TED SUM:	0.0			184		
		4.5					•
SURROGA			-		129	124	126
O-TERPHI	ENYL (%) ATF I IMITS	(66 - 151)				•	

CHEMIST NOTES:

N/A



2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

#### GAS CHROMOTOGRAPHY RESULTS

REAGENT BLANK

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

BLANK I.D.

: 110998

PINNACLE I.D.

: 811012

: EL PASO FIELD SERVICES

DATE EXTRACTED

: 11/9/98

CLIENT PROJECT#

: (none)

DATE ANALYZED

: 11/9/98

PROJECT NAME

: PHASE II DRILLING

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	

RROGATE:

GafERPHENYL (%) SURROGATE LIMITS

(80 - 151)

99

**CHEMIST NOTES:** 

N/A

## BTEX SOIL SAMPLE WORKSHEET

File		: 98	0761	Date Pi	rinted :	11/15/98	
Soil Mass		_	5.13	Multiplier	(L/g) :	0.00097	
Extraction vol.	,		10	CAL FACTOR (Ar	nalytical):	200	
Shot Volume	•		50	CAL FACTOR		0.19493	
				DILUTION	FACTOR:	1	Det. Limit
Benzene	(ug/L)	: <0.5		Benzene	(mg/Kg):	<b>#VALUE!</b>	0.487
		: <0.5				<b>#VALUE!</b>	0.487
		: <0.5		Ethylbenzene			0.487
	(ug/L)		4.69	p & m-xylene			0.975
		· : <0.5		o-xvlene	(mg/Kg):	#VALUE!	0.487
0-Xylene	(ug/L)	0.0					1 /62

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

1.462

SEIPESO MASCIL Drilling

CHAIN OF CUSTODY RECORD

13-28-80 And? 13.38.98 Chear.

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O TOTAL STATE OF THE PERSON OF	CONTRACT EXBORATION 1 T. C. NORDEN		REMARKS	FIORANCE 8#175829 5-6'												10/30/98 1345 RECEIVED BY: (Signature)	D-30-98 13 K	RESULTS & INVOICES TO: FIELD SERVICES LABORATORY	P. O. BOX 4990 F. O. BOX 4990 FARMINGTON, NEW MEXICO 87499	
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	PROJECT NAME PIT CLOSI	B	DATE .	10/28/18 1257		/-					<del> </del>					125		TIME:		
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