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
120 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 Kisk Jefinal Plume

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: Texaco by EPFS T	Celephone	4257R2			
Address:	DE DE	C 2002			
Facility Or: Garrett B#1, Meter 90315	E ON GO	Vig SD	<u> </u>		
Well Name			J.		
Location: Unit or Qtr/Qtr SecJ Sec12_	T 29 R 11 County 10.5	San Juan	<u></u>		
Pit Type: Separator Dehydrator	Other <u>Drip</u>	·			
Land Type: BLM, State, Fee	X Other				
Pit Location: Pit dimensions: length 22', (Attach diagram)					
Reference: wellhead X	_, other				
Footage from reference: 64'					
Direction from reference: 9 Degrees X East North of					
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:		Yes	(20 points)		
(Less than 200 feet from a private			(20 points) (0 points) <u>0</u>		
domestic water source, or; less than					
1000 feet from all other water sources.)					
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>		
	RANKING SCORE (TOTAL POI	- Tem (1)	10		

Date Remediation Started:	07/15/94 Date completed:09/17/94					
	vation Approx. cubic yards					
Check all appropriate ections.) Land	Driate Landfarmed Insitu Bioremediation					
Other	Backfill pit without excavation					
	te <u>N/A</u> Offsite <u>N/A</u>					
(i.e. landfarmed onsite, name and location of	· · · · · · · · · · · · · · · · · · ·					
offsite facility)						
General Description of Reme	dial Action: EPNG lines marked. Soil gray, strong hydrocarbon odor.					
Ground Water Encountered:	NoX					
Final Pit:	Sample location _ Four walls and center of pit composite					
Closure Sampling: (if multiple samples,						
attach sample results and diagram of sample	Sample depth 12'					
locations and depths)	Sample Date09/17/94 Sample time13:55					
	Sample Results					
	Benzene(ppm) Not reported.					
	Total BTEX(ppm) _ Not reported					
	Field headspace(ppm) _491					
	TPH1400					
Ground Water Sample:	Yes NoX (If yes, attach sample results)					
I hereby certify that the information above is true and complete to the best of my knowledge and belief.						
Date $1/g/o3$						
Signature Sort T.	Printed Name Scott T. Pope and Title Senior ENV. Scientist					



Garrett B #1 Meter/Line ID 90315

SITE DETAILS

Legals - Twn: 29N

Rng: 11W

Sec: 12

Unit: J

NMOCD Hazard Ranking: 10 Operator: Texaco E&P Inc Land Type: FEE

Pit Closure Date: 7/15/94

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 12 feet (ft) below ground surface (bgs) and a soil sample was collected for field headspace and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 491 ppm; laboratory analysis indicated a TPH concentration of 1,400 mg/kg. The 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 bedrock refusal at 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 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 <20 mg/kg. The benzene, total BTEX, and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III excavation was done.

El Paso Field Services requests closure of the above mentioned pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over eight years.
- Bedrock sandstone was encountered at 21 feet bgs making further contaminant migration unlikely.
- 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.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Groundwater was not encountered in the soil boring at 21 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.



PIT CLOSURE REQUEST

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 21 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.
- Residual hydrocarbons, if any, 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

REVISEDFIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 90315 Location:				
	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) (1) (2) (3)				
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 ASSE	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 [1) YES (20 points) [2] (3)				
	(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				
REMAKS	Remarks: Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site has been re-assessed, due to initial assessment including washes as a Surface Water Body.				

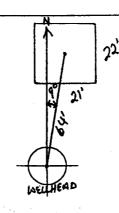
(assess) 12/16/97

REMARKS

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Original Pit : a) Degrees from North 9° Footage from Wellhead 64'

b) Length: <u>22'</u> Width: <u>21'</u> Depth: <u>2'</u>



Remarks	:
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TOOK PICTURES AT 2:52 P.M.

END DUMP

Completed By:

Signature

5.18.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

	T	
CENERAI.	מהואותג	Meter: 90315 Location: 5ARRETT B#1 Coordinates: Letter: Section_12 Township: Range:/_ Or Latitude Longitude Date Started: Run: 93
l	AIL	Sample Number(s): MK/4L Sample Depth: 12 Feet Final PID Reading 491 PID Reading Depth 12 Feet Yes No Groundwater Encountered X Approximate Depth Feet
1;	CLOSURE	Remediation Method: Excavation
	REMARKS	Remarks: EPNG links Marked Soil Gray Strong Hyprocarbon odor
		Signature of Specialist: Murgan Xillion



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK H2	945692
MTR CODE SITE NAME:	90315	N/A
SAMPLE DATE TIME (Hrs):	7.15-94	1355
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	7/19/94	7/19/94
DATE OF BTEX EXT. ANAL.:	NIA	NIA
TYPE DESCRIPTION:	V G -	Brown Grey Med. Sand

REMARKS:		
····	DEG. 11 TO	
	RESULTS	•.

PARAMETER	RESULT	RESULT UNITS	QUALI: IERS			
PANAMETEN			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)	1400	MG/KG			1.99	28
HEADSPACE PID	491	PPM				
PERCENT SOLIDS	88.18	7 8 c/42 %				

	$\overline{}$				
7			- TPH is by EPA Method	418.1 and STEX is by EPA Me	the: 3020 —
Th	ne -	Urrogate Recovery was at	ALG	% for this sample	All QA/QC was acceptable
Na	erra	ative:			+

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4020 Monroe Road on, New Mexico 87401 (505-25-2262 FAX (505) 326-2388

Borehole #	BH-
Well#	NA
Page 1	of

Project	Number	19643

Phase 1001.77

Project Name EPFS PITS >10

Project Location GaRRETT R#1190315

Elevation
Borehole Location LTR: J S: 12 T: Z4 R: II

GWL Depth
Drilled By
Well Logged By
Date Started
Date Completed

K. PADILLA
H. BRADBURY

7/10/98

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)	Air Monitoring Units: PPM BZ BH S/HS		М			
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace		
10				Excavation sample Collected at 12'								
15	1	LS-17	12	LT BR SILTS TONE, mod cemented. dry			0	0	1	1331 1231 hes hard drilling		
20	2	20-21	12	LTBR SANDSTONE. FINE SAND, HARD CEMENTATION DRY	-		0	D	00	1348 hes.		
25				100 21		·						
30												
35												
40												

ments:

NOT ENCOUNTERED BH GROVIED TO SURFACE

Geologist Signature

Holly Brodling



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab 1D			
SAMPLE NUMBER:	HAB31	980640			
MTR CODE SITE NAME:	90315	Garrett B #1			
SAMPLE DATE TIME (Hrs):	9/10/98	1348			
PROJECT:	Phase II Drilling				
DATE OF TPH EXT. ANAL.:	9/15/98	9/17/98			
DATE OF BTEX EXT. ANAL.:	9/14/98	9/14/98			
TYPE DESCRIPTION:	VG	SOIL			
I THE DESCRIPTION.					

Field Remarks: 20-21'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				
			DF	0	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)	<20	MG/KG					
HEADSPACE PID	0	PPM					
PERCENT SOLIDS	87.8	%					

TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020										
The Surrogate Recovery was at	101.5	% for this sample	All QA/QC was acceptable.							
DF = Dilution Factor Used										
Approved By: John Toub	On:		Date: 10/1 /98							





GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 809038

PROJECT #

: (none)

DDO JECT NAME

PHASE II DRILLING

PROJECT NAME	: PHASE II DRI	LLING				<u> </u>
			DATE	DATE	DATE	DIL.
SAMPLE		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
ID. # CLIENT I.D.			9/10/98	9/15/98	9/17/98	1
16 980639		NON-AQ			9/17/98	1
17 980640		NON-AQ	9/10/98	9/15/98		
PARAMETER	DET. LIMIT	UN	IITS	16		
FUEL HYDROCARBONS, C6-C10	10	MG	KG	< 10	< 10	
FUEL HYDROCARBONS, CO-C 10	5.0		S/KG	< 5.0	< 5.0	
FUEL HYDROCARBONS, C10-C22				< 5.0	< 5.0	
FUEL HYDROCARBONS, C22-C36	5.0	MG	S/KG	< 5.0	1 0.0	
CALCULATED SUM:						
SAROGATE:				88	87	
O-TERPHENYL (%)					- .	
SURROGATE LIMITS	(66 - 151)					

CHEMIST NOTES:

N/A





GAS CHROMOTOGRAPHY RESULTS

REAGENT BLANK

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

BLANK I.D.

: 091598

: EL PASO FIELD SERVICES

PINNACLE I.D.

: 809038

CLIENT

DATE EXTRACTED

: 9/15/98

PROJECT#

: (none)

DATE ANALYZED

: 9/16/98

PROJECT NAME

: PHASE II DRILLING

SAMPLE MATRIX

: NON-AQ

PARAMETER FUEL HYDROCARBONS, C6-C10 FUEL HYDROCARBONS, C10-C22 FUEL HYDROCARBONS, C22-C36	UNITS MG/KG MG/KG MG/KG	< 10 < 5.0 < 5.0	
RROGATE:		95	

SURROGATE LIMITS

(80 - 151)

CHEMIST NOTES:

N/A