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
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 Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office depth of plum (Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco by EPFS	Telephone	N 23 24 25	2677
	los los	DEC	N TOO
Address:		Pico 20	<u>102 [3]</u>
	71.00	0/0/18	
Facility Or: Abrams Gas Com C#1, Meter Well Name	/169/	-107 · C	
wen name		1 =	
Location: Unit or Qtr/Qtr Sec_F_Sec_2	25 T 29 R 10 County	San Ju	110
Pit Type: Separator Dehydrator	Other Drip		
Land Type: BLM, State, F	ee X Other		
Pit Location: Pit dimensions: length _18'	, width17', depth3', other		
Footage from reference:14	2'		
	Degrees X East North		
Direction from referenceo		of	-
	·	t Soutl	ı
Depth To Ground Water	Less than 50 feet		(20 points)
(Vertical distance from contaminants to seasonal	50 feet to 99 feet Greater than 100 feet		(10 points) (0 points) <u>20</u>
high water elevation of	Greater than 100 leet		(0 points) <u>20</u>
ground water.)			·
ground water.)			
ground water.) Wellhead Protection Area:			(20 points)
ground water.) Wellhead Protection Area: (Less than 200 feet from a private			(20 points) (0 points)0
ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than			· • ·
ground water.) Wellhead Protection Area: (Less than 200 feet from a private			· • ·
ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than	Less than 200 feet		· • ·
ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.) Distance To Surface Water: (Horizontal distance to perennial	200 feet to 1000 feet		(0 points)
ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.) Distance To Surface Water:			(0 points)0

Date Remediation Started:	09/27/94 Date completed:09/27/94
	vation X Approx. cubic yards 100
Check all appropriate ections.) Land	Ifarmed Insitu Bioremediation
Othe	r
Remediation Location: Onsi (i.e. landfarmed onsite, name and location of offsite facility)	ite Offsite Envirotech
General Description of Reme	dial Action: No line markers. Started remediating to 12'. Soil turned dark gray with a
Smell. At 12' soil light gray	with a smell. 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 depth 12'
rocations and deptilis)	Sample Date09/27/94 Sample time11:35
	Sample Results
	Benzene(ppm)0.50
	Total BTEX(ppm) _ 11.0
	Field headspace(ppm) _165_
	TPH
Ground Water Sample:	Yes NoX (If yes, attach sample results)
I hereby certify that the infor	mation above is true and complete to the best of my knowledge and belief.
Date 1/8/03	\cap \rightarrow \rightarrow \rightarrow \rightarrow
Signature Scott T.	Printed Name Scott T. Pope and Title Senier ENV. Scientist



Abrams Gas Com C#1 Meter/Line ID 71697

SITE DETAILS

Legals - Twn: 29N

Rng: 10W

Sec: 25

Unit: F

NMOCD Hazard Ranking: 20

Operator: Crosstimbers

Land Type: FEE

Pit Closure Date: 9/27/94

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 and BTEX. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 165 ppm; laboratory analysis indicated a benzene concentration of 0.5 mg/kg, a total BTEX concentration of 11 mg/kg, and a TPH concentration of 177 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 20.

Approximately 100 cubic yards of soil were excavated and hauled to Envirotech, a commercial landfarm, for treatment and disposal. The pit was backfilled with clean soil and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 17 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 15-17 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 117 mg/kg. The benzene and total BTEX 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.
- Impacted soils were excavated to the practical extent of the equipment and subsurface conditions. All excavated soil was disposed of at an off-site location.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Backfilling the pit with clean soil eliminated the potential for direct contact with hazardous constituents by livestock or the public; i.e., direct contact exposure pathways are incomplete.
- 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 to 17 ft bgs.



PIT CLOSURE REQUEST

- Benzene and total BTEX concentrations at the base of the test pit and Phase II boring were below recommended remediation levels for the Hazard Ranking Score.
- The TPH concentration of 117 mg/kg at the base of the Phase II soil boring was only slightly above the recommended remediation level of 100 mg/kg.
- TPH concentrations in the soil at 17 ft bgs were about 66% of the concentration at 12 ft bgs. This strong attenuation with depth indicates that residual hydrocarbons 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

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 7/697 Location: Abrams Gas Com (*) Coordinates: Letter: F Section 25 Township: 29 Range: 10 Or Latitude Longitude Date Started: 927-94 Run: 01 51
FIELD OBSERVATIONS	Sample Number(s): Kl254 Sample Depth: 12' Feet Final PID Reading 165 PID Reading Depth 12' Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 9-27-94 Pit Closed By: BET
REMARKS	Remarks: No Line markers. Started Permediating to 12' Soil turned Dark gray, with A Smell. At 12: Soil light gray with a Smell. Closed Pit.
	Signature of Specialist: Kelly Vadille (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE I	DENTIFICAT	ON			
	Field II	D		Lab ID		
SAMPLE NUMBER:	KP 254		9462	28		
MTR CODE SITE NAME:	7/697			N/A		
SAMPLE DATE TIME (Hrs):	9-27-9		11 3	.5		
SAMPLED BY:		N/A				
DATE OF TPH EXT. ANAL.:	9-29-94			29-94		
DATE OF BTEX EXT. ANAL.:	10.3.	94	Brown f	-6 94	* clau	
TYPE DESCRIPTION:	VC		Brannit	ine iona	1	•
REMARKS:						
	F	RESULTS				
	RESULT	UNITS	QUALIFIERS			- N/ - 13
PARAMETER			DF	Q	M(g)	V(ml)
BENZENE	٥.٤٥	MG/KG	5			
TOLUENE	0.61	MG/KG	5			
ETHYL BENZENE	٥٢.٥	MG/KG	5			
TOTAL XYLENES	9.2	MG/KG	5			
TOTAL BTEX	11.0	MG/KG				5.0
TPH (418.1)	1.77	MG/KG			2.15	28
HEADSPACE PID	165	PPM				+ d .
PERCENT SOLIDS	78.5	%				:
The Surrogate Recovery was at Nacrative:	7/	d 418.1 and BTEX is by E % for this sampl	PA Method 8020 e All QA/C	C was acce	ptable.	
DE - Dilution Factor Used						

RECORD OF SUBSURFACE EXPLORATION

HILIP ENVIRONMENTAL

4000 Monroe Road Farmington, New Mexico 87401 (605) 326-2262 FAX (605) 326-2388

Elevation	
Borehole Location	T29, RIQ \$25, F
GWL Depth	
Logged By	Jeff W. Kindley
Drilled By	K. Padilla
Date/Time Started	0830 epicelas
Date/Time Comple	

		Welt # Page	Į.	of	1/		
Project Name Project Number	EPNG Pits	Phase		6000	.77		
Project Location	Abram	71697		دن	C#	<u> </u>	
Well Logged By Personnel On-Site		W. Kindley	<u>, </u>	Cho	nley,	FRIVE	- r a
Contractors On-Site Client Personnel On-	Site						
D-INI Adamad	4 1/4 ID HS	Α .					

PID, CGI

Air Monitoring Method

Borehole #

BH-1

Dej (Fe		Sample Number	Sample Interval	Semple Type & Recovery	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	r Monitor Inits: PP BH	Drilling Conditions & Blow Counts
	_ 10 _ 15 _ 20 _ 25 _ 35			(inches)	Backfill makrial to 12 CL, BR CLAY, moist, soft, high photicity, no other, Buring terminated at 17			ВН	0928 26lows go Fot
	_ ⁴⁰								

omments:	Sample collected From 15 to 17' (Sample ID: JWK 43). Sample S. Branchesis of BTEX and TPH. 3H growted to the surfece	whim Hed
	Econolysis of BTEX and TPH. 3H growted to the surfece	•

Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

SAMPLE NUMBER:

TWK 43

947329

MTR CODE | SITE NAME:

71697

Abrams Gas Com C#1

O8-24-95

PROJECT:

Phace II Orilling

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

Production

Elegan

Elega

Field Remarks:	

RESULTS

	RESULT	UNITS	∴ QUALIFIERS					
PARAMETER			DF	Q	M(g)	V(ml)		
BENZENE	4.5	MG/KG						
TOLUENE	< 5	MG/KG						
ETHYL BENZENE	4.5	MG/KG						
TOTAL XYLENES	4 1.5	MG/KG						
TOTAL BTEX	43	MG/KG						
TPH (418.1)	117	MG/KG			2.0	78		
HEADSPACE PID	0	PPM						
PERCENT SOLIDS	70.5	%						

TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020									
ne Surrogate Recovery was at	<u> 86% </u>	for this sample	All QA/QC was acceptable.						
Narrative:									