Risk-OK - topo evaluation

plume not defined

TPH increasing 2,150

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

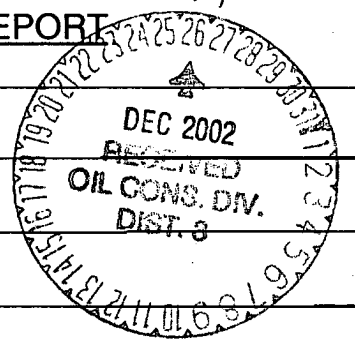
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-045-24123



Operator: Amoco by EPFS Telephone _____

Address: _____

Facility Or: Gallegos Canyon Unit 211E, Meter 93089 _____
Well Name

Location: Unit or Qtr/Qtr Sec C Sec 32 T 29 R 12 County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Drip

Land Type: BLM _____, State _____, Fee X Other _____

Pit Location: Pit dimensions: length 27', width 26', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 127'

Direction from reference: 70 Degrees X East North _____
of
_____ West South _____

Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet to 99 feet	(10 points)
	Greater than 100 feet	(0 points) 10
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Yes	(20 points)
	No	(0 points) 0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 200 feet	(20 points)
	200 feet to 1000 feet	(10 points)
	Greater than 1000 feet	(0 points) 0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 10/21/94 Date completed: 10/21/94

Remediation Method: (Check all appropriate sections.) Excavation _____ Approx. cubic yards _____

Landfarmed _____ Insitu Bioremediation _____

Other Backfill pit without excavation

Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility) Onsite N/A Offsite N/A

General Description of Remedial Action: Some line markers. At 12' soil light gray.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location Four walls and center of pit composite

Sample depth 12'

Sample Date 10/21/94 Sample time 10:25

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 285

TPH 1990

Ground Water Sample: Yes _____ No X (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 1/8/03

Signature Scott T. Pope

Printed Name and Title Scott T. Pope Senior ENV Scientist

elpaso

PIT CLOSURE REQUEST

Gallegos Canyon Unit 211E
Meter/Line ID 93089

SITE DETAILS

Legals - Twn: 29N	**Rng: 12W**	**Sec: 32**	**Unit: C**
NMOCD Hazard Ranking: 10		**Land Type: FEE**	
Operator: Amoco Production Company		**Pit Closure Date: 10/21/94**	

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 285 ppm; laboratory analysis indicated a TPH concentration of 1,990 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 with refusal at 22 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 46 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 2,150 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.
- Sandstone bedrock was encountered in the Phase II soil boring at 22 feet bgs making further vertical migration of contaminants 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 22 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93089 Location: Gallegos Canyon Unit 211 E

Operator #: _____ Operator Name: _____ P/L District: _____

Coordinates: Letter: C Section 32 Township: 29 Range: 12

Or Latitude _____ Longitude _____

Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____

Site Assessment Date: 4/14/98 Area: _____ Run: _____

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)

Inside ☐ (1)

Outside ☒ (2)

Land Type:

BLM ☐ (1)

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

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)

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, 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

REMARKS

Remarks : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is <100' vertical from centerof San Juan R.

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 326	9464/2
MTR CODE | SITE NAME:	93089	N/A
SAMPLE DATE | TIME (Hrs):	10-21-94	1025
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	10-26-94	
DATE OF BTEX EXT. | ANAL.:	N/A	N/A
TYPE | DESCRIPTION:	VG	Brown fine sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	1990	MG/KG			2.18	28
HEADSPACE PID	285	PPM				
PERCENT SOLIDS	93.9	%				

-- TPH is by EPA Method 418.1 --

arrative:

_____

_____

F = Dilution Factor Used

Approved By: _____ Date: 11/3/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93089 Location: Gallegos Canyon Unit 211-E

Coordinates: Letter: C Section 32 Township: 29 Range: 12

Or Latitude _____ Longitude _____

Date Started : 10-21-94 Area: 01 Run: 61

FIELD OBSERVATIONS

Sample Number(s): KP 326 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 285 PID Reading Depth 12' Feet

	Yes	No	
Groundwater Encountered	☐ (1)	☒ (2)	Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☐ (1)	Approx. Cubic Yards _____
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☒ (3)	

Soil Disposition:

Envirotech	☐ (1)	☐ (3)	Tierra
Other Facility	☐ (2)	Name: _____	

Pit Closure Date: 10-21-94 Pit Closed By: B.E.I

REMARKS

Remarks : Some Line markers. At 12' soil light gray

Signature of Specialist: Kelly Padilla

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB28	980637
MTR CODE | SITE NAME:	93089	Gallegos Canyon Unit #211-E
SAMPLE DATE | TIME (Hrs):	9/9/98	1555
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9/15/98	9/17/98
DATE OF BTEX EXT. | ANAL.:	9/14/98	9/17/98
TYPE | DESCRIPTION:	VG	SOIL

Field Remarks: 20-21'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			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)	2,150	MG/KG				
HEADSPACE PID	46	PPM				
PERCENT SOLIDS	98.1	%				

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

The Surrogate Recovery was at 93.5 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: John Labadie Date: 10/1/98

PINNACLE LABORATORIES

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

GAS CHROMOTOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

PINNACLE I.D.: 809038

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	980636	NON-AQ	9/9/98	9/15/98	9/17/98	10
14	980637	NON-AQ	9/9/98	9/15/98	9/17/98	10
15	980638	NON-AQ	9/10/98	9/15/98	9/17/98	1

PARAMETER	DET. LIMIT	UNITS	13	14	15
FUEL HYDROCARBONS, C6-C10	10	**MG/KG**	**10000**	**170**	< 10
FUEL HYDROCARBONS, C10-C22	5.0	**MG/KG**	**1200**	**1600**	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	**MG/KG**	< 50	**380**	< 5.0
CALCULATED SUM:			**11200**	**2150**	
SURROGATE:					
O-TERPHENYL (%)			122	131	87
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

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.	: 091598	PINNACLE I.D.	: 809038
CLIENT	: EL PASO FIELD SERVICES	DATE EXTRACTED	: 9/15/98
PROJECT #	: (none)	DATE ANALYZED	: 9/16/98
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
SURROGATE:		
[redacted]RPHENYL (%)		95
SURROGATE LIMITS	(80 - 151)	

CHEMIST NOTES:
N/A

Acceptable.
9-25-98
J.S.

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH- 1
Well # NA
Page 1 of

PHILIP SERVICES CORP.
[redacted] Road
[redacted] New Mexico 87401
505) 326-2262 FAX (505) 326-2388

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location GALLEGOS CANYON UNIT 211-E 93-089

Elevation
Borehole Location LTR: C S: 32 T: 29 R: 12
GWL Depth NA
Drilled By K. PADILLA
Well Logged By H. BRADBURY
Date Started 9/9/98
Date Completed 9/9/98

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	Drilling Conditions & Blow Counts
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				EXCAVATION SAMPLE COLLECTED AT 12'						
15	1	15-17	24	LT BR silty SAND, fine SAND, LOOSE, dry	SM		0	0	0/1	1546 hrs
20	2	20-22	24	LT BR silty SAND, fine SAND LOOSE, dry	SM		0	0	30/46	1555 hrs
25				TOB 22'						
30										
35										
40										

Comments: HAB28 20-22' SENT TO lab FOR BTEX, TPH, GW NOT ENCOUNTERED, BH GROUTED TO SURFACE

Geologist Signature Holly Bradbury

8/18/98\Drillog