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

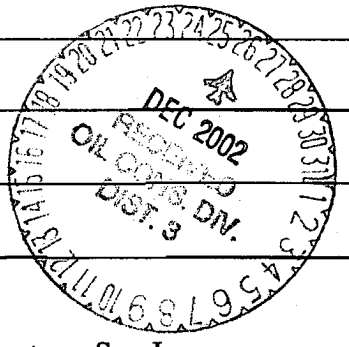
OK - Risk Bedrock 7 feet into sandstone increased concentration

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

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-045-07917



Operator: Amoco by EPFS Telephone

Address:

Facility Or Well Name: Gallegos Canyon Unit #154, Meter 73923

Location: Unit or Qtr/Qtr Sec B Sec 27 T 29 R 12 County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 14', width 14', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 200'

Direction from reference: 285 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~~ 0

Date Remediation Started: 02/06/95 Date completed: 02/06/95

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. Dug a test hole to 8'. Hit sandstone, Closed pit.

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 8'

Sample Date 02/06/95 Sample time 17:40

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 105

TPH 2700

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 1/8/98

Signature Scott T. Pope

Printed Name Scott T. Pope and Title Senior Env. Scientist

elpaso

PIT CLOSURE REQUEST

Gallegos Canyon Unit #154
Meter/Line ID 73923

SITE DETAILS

Legals - Twn: 29N	**Rng: 12W**	**Sec: 27**	**Unit: B**
NMOCD Hazard Ranking: 10		**Land Type: BLM**	
Operator: Amoco Production Company		**Pit Closure Date: 2/6/95**	

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 8 feet (ft) below ground surface (bgs) where sandstone was encountered 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 105 ppm; laboratory analysis showed a TPH concentration of 2,700 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 auger refusal at 15 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 15-16 ft bgs. Headspace analysis indicated an organic vapor content of 329 ppm; laboratory analysis indicated a benzene concentration of 15.5 mg/kg, a total BTEX concentration of 535 mg/kg, and a TPH concentration of 11,200 mg/kg.

No Phase III activities were performed.

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 seven years.
- Sandstone bedrock was encountered at 8 feet bgs (test pit) and 15 feet bgs (soil boring) making additional excavation impractical.
- 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 15 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 73923 Location: Gallegos Canyon Unit # 154

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

Coordinates: Letter: B Section 27 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 center of 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 412	9466411
MTR CODE | SITE NAME:	73923	N/A
SAMPLE DATE | TIME (Hrs):	2-6-95	1740
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	2-8-95	2-8-95
DATE OF BTEX EXT. | ANAL.:		
TYPE | DESCRIPTION:	VG	Brown sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	2700	MG/KG			1.98	28
HEADSPACE PID	105	PPM				
PERCENT SOLIDS	93.5	%				

– TPH is by EPA Method 418.1 –

Narrative: _____

DF = Dilution Factor Used

Approved By: _____ Date: 2-22-95

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 73923 Location: Gallegos Canyon Unit No. 154

Coordinates: Letter: B Section 27 Township: 29 Range: 12

Or Latitude _____ Longitude _____

Date Started : 2-6-95 Run: 02 33

FIELD OBSERVATIONS

Sample Number(s): KP 412 _____ _____ _____

Sample Depth: 8' Feet

Final PID Reading 105 PID Reading Depth 8' Feet

	Yes	No
Groundwater Encountered	☐	☐

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☐ Approx. Cubic Yards _____

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☒

Soil Disposition:

Envirotech ☐ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 2-6-95 Pit Closed By: B.E.T.

REMARKS

Remarks : Some Line markers. dug A Test Hole TO 8' Hit SAND stone. closed Pit.

Signature of Specialist: Kelly Lachelle

(SP3191) 03/16/94

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB27	980636
MTR CODE | SITE NAME:	73923	Gallegos Canyon Unit #154
SAMPLE DATE | TIME (Hrs):	9/18/98 J.L. 9/21/98	1305
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: 15-16'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	15.5	MG/KG				
TOLUENE	198	MG/KG				
ETHYL BENZENE	21.9	MG/KG				
TOTAL XYLENES	300	MG/KG				
TOTAL BTEX	535	MG/KG				
TPH (MOD.8015)	11,200	MG/KG				
HEADSPACE PID	329	PPM				
PERCENT SOLIDS	93.3	%				

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

The Surrogate Recovery was at 104.7 % for this sample All QA/QC was acceptable.

rative:

DF = Dilution Factor Used

Approved By: John Stanberry 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 PINNACLE I.D.: 809038
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

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
CULATED SUM:			**11200**	**2150**	
SURROGATE:					
O-TERPHENYL (%)			122	131	87
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
N/A

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well # NA
Page 1 of

PHILIP SERVICES CORP.
400[redacted]pe Road
Fa[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 #154 73-925

Elevation
Borehole Location LTR: B S: 27 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
										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
0				EXCAVATION SAMPLE COLLECTED at 8'						
10	1	10-11	12	LT BR silty SAND, FINE SAND, LOOSE, dry	SM		0	200	511/215	1248 hrs
15	2	15-16	12	LT BR Silty SAND. FINE SAND. MED DENSE, dry TOB 16'			1	81	188/329	1305 hrs HARD drilling
20										
25										
30										
35										
40										

Comments: HAB2B 15-16 SENT to lab for TPH, BTEX GW NOT ENCOUNTERED. BH GROUTED TO SURFACE AUGER REFUSAL at ~~5~~ 15'

Geologist Signature Holly Bradbury