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

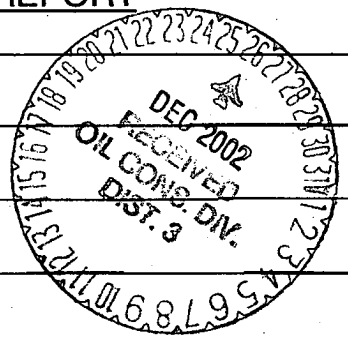
Risk
Bedrock

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

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-039-22564



Operator: Blackwood and Nichols by EPFS Telephone _____

Address: _____

Facility Or Well Name: N.E. Blanco Unit #24R, Meter 93886

Location: Unit or Qtr/Qtr Sec O Sec 17 T 30 R 7 County Rio Arriba

Pit Type: Separator _____ Dehydrator X Other _____

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

Pit Location: Pit dimensions: length 23', width 22', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 108'

Direction from reference: 170 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) 0
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) 10

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 07/13/94 Date completed: 07/13/94

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: EPNG lines marked. Soil light gray, hydrocarbon odor. Hit sandstone 4'.

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 4'

Sample Date 07/13/94 Sample time 16:55

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported.

Field headspace(ppm) 306

TPH 2790

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 Scott T. Pope and Title Senior Env. Scientist

elpaso

PIT CLOSURE REQUEST

N.E. Blanco Unit #2R
Meter/Line ID 93886

SITE DETAILS

Legals - Twn: 30N	**Rng: 7W**	**Sec: 17**	**Unit: O**
NMOCD Hazard Ranking: 10		**Land Type: BLM**	
Operator: Amoco Production Company		**Pit Closure Date: 7/13/94**	

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 4 feet (ft) below ground surface (bgs) where sandstone bedrock 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 306 ppm; laboratory analysis showed a TPH concentration of 2,790 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 7 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 443 ppm, laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 2.64 mg/kg, and a TPH concentration of 1,085 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.
- Bedrock was encountered at 4 feet bgs making further vertical migration unlikely and further 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 7 ft bgs; local geologic features indicate the depth to groundwater is greater than 100 ft bgs.

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93886 Location: N.E. BLANCO UNIT #2R

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

Coordinates: Letter: O Section 17 Township: 30 Range: 7

Or Latitude _____ Longitude _____

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

Site Assessment Date: 4.29.98 Area: 10 Run: 82

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 NAVAJO RESERVOIR

(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. LOCATION IS UP ON A BLUFF ABOVE NAVAJO RESERVOIR.

10

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK 128	945664
MTR CODE | SITE NAME:	93886	N/A
SAMPLE DATE | TIME (Hrs):	7-13-94	1655
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7/14/94	7/14/94
DATE OF BTEX EXT. | ANAL.:	N/A	N/A
TYPE | DESCRIPTION:	VG	Fine Brown Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS 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)	2790	MG/KG			2.16	28
HEADSPACE PID	306	PPM				
PERCENT SOLIDS	93.9	%				

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

The Surrogate Recovery was at N/A % for this sample All QA/QC was acceptable.
Note:

DF = Dilution Factor Used

Approved By: _____ Date: 7/17/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93886 Location: NE Blanco Unit # 24R

Coordinates: Letter: O Section 17 Township: 30 Range: 7

Or Latitude _____ Longitude _____

Date Started : 7-13-94 Run: 10 82

FIELD OBSERVATIONS

Sample Number(s): mK128 _____ _____ _____

Sample Depth: 4' Feet

Final PID Reading 306 PID Reading Depth 4' 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: 7-13-94 Pit Closed By: BEI

REMARKS

Remarks : EPNG lines marked soil light Gray Slight Hydrocarbon odor Hit sandstone 4'

Signature of Specialist: Morgan Killion

(SP3181) 03/16/94

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB32	980648
MTR CODE | SITE NAME:	93886	NE Blanco Unit 24R
SAMPLE DATE | TIME (Hrs):	9/14/98	1046
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9/23/98	9/25/98
DATE OF BTEX EXT. | ANAL.:	9/17/98	9/17/98
TYPE | DESCRIPTION:	VG	SOIL

Field Remarks: 5-6'

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	2.64	MG/KG				
TOTAL BTEX	2.64	MG/KG				
TPH (MOD.8015)	1,085	MG/KG				
HEADSPACE PID	443	PPM				
PERCENT SOLIDS	93.8	%				

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

The Surrogate Recovery was at 93.2 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: John Sanders Date: 10/8/98

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.: 809047
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	980648	NON-AQ	9/14/98	9/23/98	9/25/98	1
02	980649	NON-AQ	9/14/98	9/23/98	9/25/98	1
03	980650	NON-AQ	9/14/98	9/23/98	9/25/98	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10	10	**MG/KG**	**55**	< 10	< 10
FUEL HYDROCARBONS, C10-C22	5.0	**MG/KG**	**610**	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	**MG/KG**	**420**	< 5.0	< 5.0
CALCULATED SUM:			**1085**		
SURROGATE:					
O-TERPHENYL (%)			114	103	99
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

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

PINNACLE I.D.: 809047

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	980651	NON-AQ	9/15/98	9/23/98	9/25/98	1
05	980652	NON-AQ	9/15/98	9/23/98	9/25/98	1

PARAMETER	DET. LIMIT	UNITS	04	05
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 5.0
CALCULATED SUM:				
SURROGATE:				
O-TERPHENYL (%)			101	101
SURROGATE LIMITS	(66 - 151)			

CHEMIST NOTES:
N/A

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH- 1
Well # NA
Page 1 of 1

PHILIP SERVICES CORP.
4000 Monroe Road
[redacted] New Mexico 87401
[redacted]2262 FAX (505) 326-2388

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location NE BLANCO UNIT # 24R 93886

Elevation
Borehole Location LTR: O S: 17 T: 30 R: 7
GWL Depth NA
Drilled By K. PADILLA
Well Logged By H. BRADBURY
Date Started 9/14/98
Date Completed 9/14/98

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				EXCAVATION SAMPLE COLLECTED AT 4'						BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5	1	5-6	4	LTBR SANDSTONE- FINE SAND, low-mod CEMENTED, dry					364 443	1046 hrs HARD drilling
				TOB 7						
10	2						0	60		hrs
15	3									hrs
20										
25										
30										
35										
40										

Comments: HAB32 5-6' SENT TO LAB FOR BTEX, TPH. AUGER REFUSAL at 7' GW NOT ENCOUNTERED BH grouted to SURFACE

Geologist Signature H. Bradbury

8/18/98\Drillog