

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
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

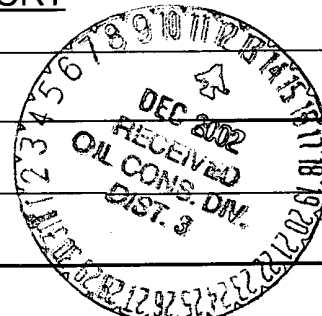
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

*Risk
defined
extent of
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: Conoco Telephone: _____

Address: 30-039-02209

Facility Or: San Juan 28-7 Unit 103(PC), Meter 72873

Well Name _____

Location: Unit or Qtr/Qtr Sec A Sec 3 T 27 R 7 County Rio Arriba

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 16', width 15', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 78'

Direction from reference: 21 Degrees X East North _____
of _____ West South _____

Depth To Ground Water	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	(0 points) <u>10</u>
high water elevation of		
ground water.)		

Wellhead Protection Area:	Yes (20 points)
(Less than 200 feet from a private	No (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,	Greater than 1000 feet	(0 points) <u>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 08/09/94 Date completed: 08/09/94

Remediation Method: Excavation Approx. cubic yards

(Check all appropriate sections.)

Landfarmed Insitu Bioremediation

Other Backfill pit without excavation

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

General Description of Remedial Action: EPNG lines marked. Soil brown, slight hydrocarbon odor.

Ground Water Encountered: No X Yes Depth

Final Pit:

Sample location Four walls and center of pit composite

Closure Sampling:

(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample depth 12'

Sample Date 08/09/94 Sample time 12:29

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 398

TPH 1520

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

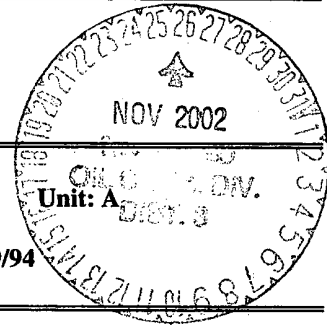
Printed Name
and Title

Scott T. Pope
Senior Env. Scientist



PIT CLOSURE REQUEST

**San Juan 28-7 Unit 103 (PC)
Meter/Line ID 74873**



SITE DETAILS

Legals - Twn: 27N

Rng: 7W

Sec: 3

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Conoco

Pit Closure Date: 8/09/94

Unit: A

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) where a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 398 ppm; laboratory analysis indicated a TPH concentration of 1,520 mg/kg. The headspace analysis and 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 22 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 20-22 ft bgs. Headspace analysis indicated an organic vapor content of 1 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, BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

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

- The primary source, discharge to the pit, has been removed for over eight years.
- 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.
- 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.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.



PIT CLOSURE REQUEST

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 20 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.
- Residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to human health and 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

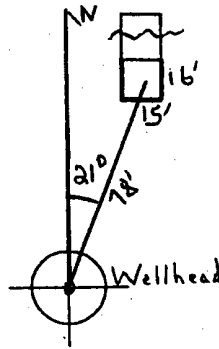
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>74873</u> Location: <u>San Juan 28-7 Unit 103 (PC)</u> Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>Blanco</u> Coordinates: Letter: <u>A</u> Section <u>3</u> Township: <u>27</u> Range: <u>7</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____ Site Assessment Date: <u>6/3/94</u> Area: <u>03</u> Run: <u>21</u>								
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)								
	Land Type: <table border="0"> <tr> <td>BLM</td> <td><input checked="" type="checkbox"/> (1)</td> </tr> <tr> <td>State</td> <td><input type="checkbox"/> (2)</td> </tr> <tr> <td>Fee</td> <td><input type="checkbox"/> (3)</td> </tr> <tr> <td>Indian</td> <td>_____</td> </tr> </table>		BLM	<input checked="" type="checkbox"/> (1)	State	<input type="checkbox"/> (2)	Fee	<input type="checkbox"/> (3)	Indian
BLM	<input checked="" type="checkbox"/> (1)								
State	<input type="checkbox"/> (2)								
Fee	<input type="checkbox"/> (3)								
Indian	_____								
REMARKS	Depth to Groundwater Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)								
Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)									
Name of Surface Water Body <u>Adolfo & Carrizo Canyon Confluence</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'									
TOTAL HAZARD RANKING SCORE: <u>30</u> POINTS									
Remarks : <u>Redline - Inside, Veto - Outside</u> <u>Spits. W. 11 close 2. (IPC 21 MV)</u> <div style="text-align: right;"><u>PVSH-IN</u></div>									

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 21° Footage from Wellhead 78'
b) Length : 16' Width : 15' Depth : 3'



REMARKS

Remarks :

Pictures @ 1225 (15-18)
Dump Truck

Completed By:

Cory Chance
Signature

6/3/99
Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 74873 Location: San Juan 28-7 Unit 1D2PC
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: A Section 3 Township: 27 Range: 7
 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

Outside

Land Type:

☐ (1)

☒ (2)

BLM

State

Fee

Indian

☒ (1)

☐ (2)

☐ (3)

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)

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)

200 Ft to 1000 Ft (10 points)

Greater Than 1000 Ft (0 points)

☐ (1)

☐ (2)

☒ (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 Carrier Canyon



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mk 241	945883
MTR CODE SITE NAME:	74873	N/A
SAMPLE DATE TIME (Hrs):	8-9-94	1229
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8/11/94	8/11/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	Light brown sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	1520	MG/KG			2.13	28
HEADSPACE PID	398	PPM				
PERCENT SOLIDS	93.6	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

9/2/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 74875 Location: SAN JUAN 28-7 Unit 103 (PC)

Coordinates: Letter: A Section 3 Township: 27 Range: 7

Or Latitude _____ Longitude _____

Date Started : 8-9-94 Run: 03 21

FIELD OBSERVATIONS

Sample Number(s): MK241 _____

Sample Depth: 12 Feet

Final PID Reading 398

PID Reading Depth 12 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: 8-9-94

Pit Closed By: DET

REMARKS

Remarks : EPUG LINES marked soil Brown Slight Hydrocarbon
odor

Signature of Specialist: Morgan Killian

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER		PROJECT NAME				TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS						CONTACT LABORATORY P. O. NUMBER	
		Pit Closure Project # 24324						TPH EPA 418.1	BTEX EPA 8020						
SAMPLERS: (Signature)						DATE:									
<i>Morgan Killion</i>						8-9-94									
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER										REMARKS	
2882	8-9-94	11:25	Soil	MK240	1	UG	X							216 Gray Soil strong Hydrocarbon odor	
2883	8-9-94	12:29	Soil	MK241	1	UG	X							217 Brown Soil Slight Hydrocarbon odor	
2884	8-9-94	13:44	Soil	MK242	1	UG	X							218 Gray Soil strong Hydrocarbon odor	
2885	8-9-94	15:43	Soil	MK243	1	UG	X							219 Gray Soil strong Hydrocarbon odor	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
<i>Morgan Killion</i>	8-9-94 17:09	<i>Brenda Liss</i>	<i>Brenda Liss</i>	8/10/94 0945	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
					<i>Jim Jim</i>

REQUESTED TURNAROUND TIME:	SAMPLE RECEIPT REMARKS	RESULTS & INVOICES TO:
<input type="checkbox"/> ROUTINE <input type="checkbox"/> RUSH		
CARRIER CO.	CHARGE CODE	FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499
BILL NO.:		505-599-2144 FAX: 505-599-2261

RECORD OF SUBSURFACE EXPLORATION

HILIP SERVICES CORP.

100 [redacted] Road
 [redacted] New Mexico 87401
 (505) [redacted] 62 FAX (505) 326-2388

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

Project Number 19643 Phase 1001.77
 Project Name EPFS PITS >10
 Project Location SAN JUAN 28-7 UNIT 103 74873

Elevation _____
 Borehole Location LTR: A S: 3 T: 27 R: 7
 Borehole Depth NA
 Drilled By K. PADILLA
 Well Logged By H. BRADBURY
 Date Started 11/16/98
 Date Completed 11/16/98

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			Drilling Conditions & Blow Counts
							BZ	BH	S/HS	
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				EXCAVATION SAMPLE COLLECTED AT 12'						
15	1	15-17	24	LT BR SANDY CLAY FINE SAND, low plastic, soft, moist			0	72	$\frac{1}{1}$	1333 hrs
20	2	20-22	24	LT BR SANDY CLAY, FINE SAND, low plastic, soft, moist			0	22	$\frac{1}{1}$	1339 hrs
25				TOB 22'						
30										
35										
40										

Comments:

HAB69 (20-22) SENT TO LAB FOR TPH, BTEX. GW NOT
 ENCOUNTERED BH GROUTED TO SURFACE

Geologist Signature

Holly Bradbury



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB69	980818
MTR CODE SITE NAME:	74873	San Juan 28-7 Unit 103 PC
SAMPLE DATE TIME (Hrs):	11/16/98	1339
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	11/23/98	11/26/98
DATE OF BTEX EXT. ANAL.:	11/19/98	11/20/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 20-22'

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)	<20	MG/KG				
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	88.4	%				

-- TPH is by EPA Method 8015 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 98.4 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By:

John L. Ladd

Date:

12/21/98

GAS CHROMATOGRAPHY RESULTS

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

PINNACLE I.D.: 811074

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980817	NON-AQ	11/16/98	11/23/98	11/26/98	1
02	980818	NON-AQ	11/16/98	11/23/98	11/26/98	1
03	980819	NON-AQ	11/16/98	11/23/98	11/26/98	1
PARAMETER		DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10		10	MG/KG	45	< 10	12
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	400	< 5.0	52
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	150	< 5.0	14
CALCULATED SUM:				595		78
SURROGATE:						
O-TERPHENYL (%)				118	86	84
SURROGATE LIMITS		(66 - 151)				

CHEMIST NOTES:
N/A

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

PINNACLE
LABORATORIES

GAS CHROMATOGRAPHY RESULTS

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

PINNACLE I.D.: 811074

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980820	NON-AQ	11/16/98	11/23/98	11/26/98	1
05	980821	NON-AQ	11/16/98	11/23/98	11/26/98	1
06	980822	NON-AQ	11/17/98	11/23/98	11/27/98	1
PARAMETER		DET. LIMIT	UNITS	04	05	06
FUEL HYDROCARBONS, C6-C10		10	MG/KG	240	15	< 10
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	130	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	40	< 5.0	< 5.0
CALCULATED SUM:				410	15.0	
SURROGATE:						
O-TERPHENYL (%)				87	90	84
SURROGATE LIMITS		(66 - 151)				

CHEMIST NOTES:
N/A

BTEX SOIL SAMPLE WORKSHEET

File	:	980818	Date Printed	:	11/23/98
Soil Mass (g)	:	5.12	Multiplier (L/g)	:	0.00098
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):		200
Shot Volume (uL)	:	50	CAL FACTOR (Report):		0.19531

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	<0.5	Benzene (mg/Kg): #VALUE!	0.488
Toluene (ug/L)	:	<0.5	Toluene (mg/Kg): #VALUE!	0.488
Ethylbenzene (ug/L)	:	<0.5	Ethylbenzene (mg/Kg): #VALUE!	0.488
p & m-xylene (ug/L)	:	<1.0	p & m-xylene (mg/Kg): #VALUE!	0.977
o-xylene (ug/L)	:	<0.5	o-xylene (mg/Kg): #VALUE!	0.488
			Total xylenes (mg/Kg): #VALUE!	1.465
			Total BTEX (mg/Kg): #VALUE!	

CHAIN OF CUSTODY RECORD

12-29-98 Anal.
12-29-98 Chem.
12-29-98 Appr.

[illegible]