

PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco 30-639-21064 Telephone _____

Address: _____

Facility Or: San Juan 28-7 Unit 221, Meter 89721

Well Name _____

Location: Unit or Qtr/Qtr Sec B Sec 25 T 28 R 7 County Rio Arriba

Pit Type: Separator _____ Dehydrator X Other _____

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

Pit Location: Pit dimensions: length 44', width 31', depth 5'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 41'

Direction from reference: 51 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 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) <u>20</u>
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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) 20

Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points) <u>0</u>
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RANKING SCORE (TOTAL POINTS): 40

Date Remediation Started: 06/16/94 Date completed: 06/16/94

Remediation Method: Excavation X Approx. cubic yards 170
(Check all appropriate sections.) Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite _____ Offsite Tierra
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Dug pit to 12', took final PID sample, 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 12'

Sample Date 06/16/94 Sample time 17:30

Sample Results

Benzene(ppm) <0.50

Total BTEX(ppm) 291

Field headspace(ppm) 349

TPH 3790

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



PIT CLOSURE REQUEST

San Juan 28-7 Unit 221
Meter/Line ID 89721

SITE DETAILS

Legals - Twn: 28N

Rng: 7W

Sec: 25

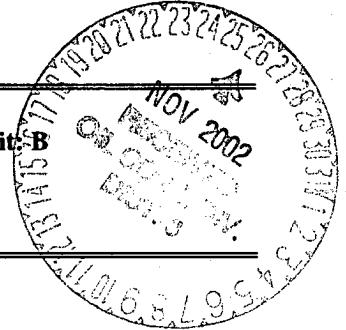
Unit: B

NMOCD Hazard Ranking: 40

Land Type: Federal

Operator: Conoco

Pit Closure Date: 6/16/94



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) where a soil sample was collected for field headspace analysis and laboratory analysis for TPH and BTEX. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 349 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 291 mg/kg, and a TPH concentration 3,790 mg/kg. The headspace analysis, BTEX, and TPH measurements exceeded recommended remediation levels for the Hazard Ranking Score of 40.

Approximately 170 cubic yards of soil were excavated and hauled to Tierra, 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 refusal at 42 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 40-42 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 108 mg/kg. The benzene and BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score; the TPH concentration was just above the recommended remediation level of 100 mg/kg..

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.
- A majority of the impacted soils were removed. Residual hydrocarbons will likely degrade by natural attenuation with minimal risk to human health and the environment.
- 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.
- Groundwater was not encountered in the soil boring to 42 ft bgs.
- Benzene and BTEX were non-detect at the base of the Phase II soil boring.



PIT CLOSURE REQUEST

- The TPH concentration at the bottom of the Phase II boring is approximately 3 percent of the concentration at 12 ft bgs.

ATTACHMENTS

Field Pit Assessment Form

Revised Field Pit Assessment Form

Field Pit Remediation/Closure Form

Phase II Soil Boring Log

Laboratory Analytical Results

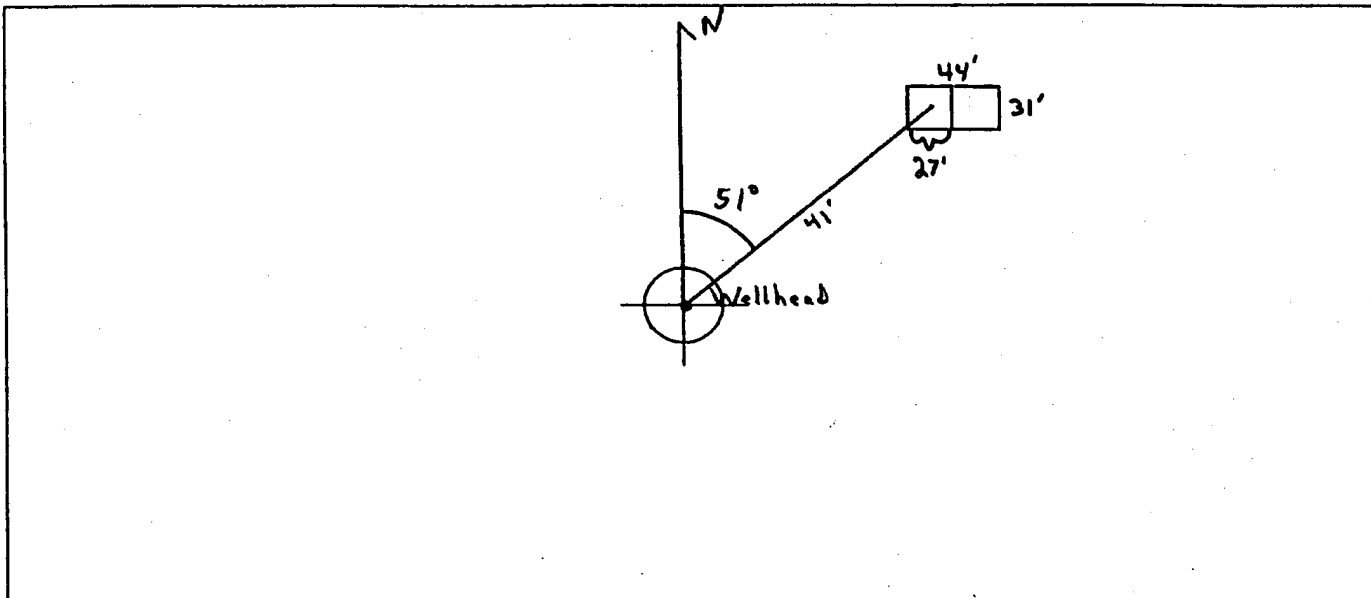
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>89721</u> Location: <u>San Juan 28-7 Unit 221</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>Ameco</u> P/L District: <u>Blanco</u></p> <p>Coordinates: Letter: <u>B</u> Section <u>25</u> Township: <u>28</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>6/2/94</u> Area: <u>03</u> Run: <u>41</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____ <u>Patented Land</u></p> <p>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)</p> <p>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 checked="" type="checkbox"/> (1) YES (20 points) <input type="checkbox"/> (2) NO (0 points) <u>Adams Spring</u></p> <p>Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Adams Canyon</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>60</u> POINTS</p>
REMARKS	<p>Remarks : <u>Recline + Vula - Inside</u> <u>4 pits. Will close 1. Pit Dry</u></p> <p><u>DIG + HAUL</u></p>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 51° Footage from Wellhead 41'
b) Length : 44' Width : 31' Depth : 5'



REMARKS

Remarks :

Pictures @ 1425 (13-16)End DumpBermed & Fenced area of pit is 44' x 31'. Actual pit is 31' x 27' x 5'

Completed By:

Cory Chase

Signature

6/2/94

Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 89721 Location: SAN JUAN 28-7 UNIT 221
Operator #: 0203 Operator Name: AMCO P/L District: BLANCO
Coordinates: Letter B Section 25 Township: 28 Range: 7
or Latitude _____ Longitude _____
Pit Type: Dehydrator x Location Drip: _____ Line Drip: _____ Other: _____
Site Assessment Date: 6/2/94 Area: 03 Run: 41
Revised Date: 11/7/02

SITE ASSESSMENT

NMOCD Zone:

(from NMCOD Maps)

Land Type:

Inside ☒ (1)
Outside ☐ (2)

BLM ☐ (1)
State ☐ (2)
Fee ☐ (3)
Indian _____

PARENT

Depth to Groundwater

Less than 50 Feet (20 points) ☒ (1)
50 Feet to 99 Feet (10 Points) ☐ (2)
Greater than 100 Feet (0 Points) ☐ (3)

Well Protection Area

Is it less than 1000 feet from well, spring or other source of fresh water extraction?
or; Is it less than 200 feet from a private domestic water source?

☒ YES (20 Points) ☐ NO (0 Points)

Horizontal Distance to Surface Water Body

Less than 200 Feet (20 points) ☐ (1)
200 Feet to 1000 Feet (10 Points) ☐ (2)
Greater than 1000 Feet (0 Points) ☒ (3)

Name of Surface Water Body CARRIZO CANYON

(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)

Distance to Nearest Ephemeral Stream ☐ (1) < 100 feet (Navajo Pits Only)
☐ (2) > 100 feet

TOTAL HAZARD RANKING SCORE 40 **POINTS**

REMARKS

Remarks: REVISION BASED ON RE-ASSESSMENT OF
DISTANCE TO NEAREST SURFACE WATER BODY

FIE PIT REMEDIATION/CLOSURE FORM

Date Started : 6-16-94 Area: 03 Run: 41

Final PID Reading 349 ppm PID Reading Depth 12' Feet

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 170

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 6-16-94 Pit Closed By: BEI

Remarks : Dug Pit to 12', Took final PID sample, closed pit.

Signature of Specialist:



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KT108	945465
MTR CODE SITE NAME:	89m1	N/A
SAMPLE DATE TIME (Hrs):	6-16-94	1730
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	6-20-94	6/20/94
DATE OF BTEX EXT. ANAL.:	6/21/94	6/22/94
TYPE DESCRIPTION:	VC	Brown fine sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.50	MG/KG	20			
TOLUENE	57	MG/KG	20			
ETHYL BENZENE	13	MG/KG	20			
TOTAL XYLENES	220	MG/KG	20			
TOTAL BTEX	291	MG/KG				
TPH (418.1)	3790	MG/KG			2.32	28
HEADSPACE PID	349	PPM				
PERCENT SOLIDS	93.1	%				

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

Surrogate Recovery was at 215 % for this sample All QA/QC was acceptable.
Negative:ATI results attached. Surrogate recovery was outside
ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By:

Date: 7/17/94



Page _____ of _____

White - Testing Laboratory **Canary - EPNG Lab** **Pink - Field Sampler**

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1

Well #

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of 1

Project Name

EPNG PITS

Project Number

14509

Phase

6000.77

Project Location

San Juan 28-7 Unit 22.1 89721

Elevation

Borehole Location QB-525-T28-R7

GWL Depth

Logged By Phillip Moss

Drilled By K. Padilla

Date/Time Started 9-8-95/12:35

Date/Time Completed 9-8-95/14:25

Well Logged By

Phillip Moss

Personnel On-Site

K. Padilla, F. Rivera, D. Charles, P. Moss

Contractors On-Site

Client Personnel On-Site

Drilling Method

4 1/4 I.D. HSA

Air Monitoring Method

PID, CGI

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	
0				Backfill to 12'						
5										
10										
15	1	15-17	13"	SS SAND, f.g., very loose, greenish gray, slight hydrocarbon odor, moist	SP		0	0	49 490	12:30
20	2	20-22	7.2" 9/16"	SS sandy CLAY, very soft, grayish green, slight hydrocarbon odor, moderate plasticity, moist.	CI	19'	10	16	42 327	12:42
25	3	25-27	13"	SS interbedded SAND and CLAY hydrocarbon odor, moist			1	75	277 452	12:52
30	4	30-32	12"	SS SAND, f.g., med. dense, brown, slight hydrocarbon odor, moist	SP		1	45	38 266	12:58
35	5	35-37	8"	SS silty SAND, f.g., med. dense, grayish brown, no odor, moist.	SM		25	85	44 103	13:08
40	6	40-42	15"	SS SAND, f.g., very loose, brown, no odor, moist	SP	40	0	135	0 0	13:35 40'=70

Comments:

PLM 14 (40-42') sent to lab (BTEX, TPH). BH grouted to the surface.

Geologist Signature

Phillip L. Moss

NO: 505-599-2261 FAX: 505-599-2261 FM-08-056CA (Rev. 03-94)



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	PLM 14	89721 947433
MTR CODE SITE NAME:	89721	San Juan 28-7 Unit 221
SAMPLE DATE TIME (Hrs):	09-08-95	1335
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-11-95	09-11-95
DATE OF BTEX EXT. ANAL.:	9/12/95	9/14/95
TYPE DESCRIPTION:	VG	Brown Sand & clay

Field Remarks:

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 (418.1)	108	MG/KG			1.99	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	94.2	%				

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

The Surrogate Recovery was at 101% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

12

9-15-95

BTEX SOIL SAMPLE WORKSHEET

File	:	947433	Date Printed	:	9/15/95
Soil Mass (g)	:	5.02	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.19920

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.498
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.498
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.498
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 0.996
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.498
			Total xylenes (mg/Kg):	0.000 1.494
			Total BTEX (mg/Kg):	0.000