

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

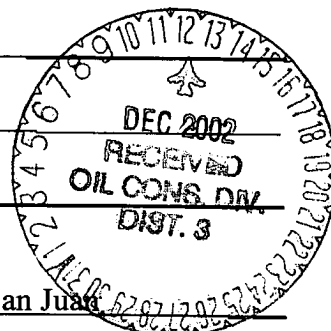
RISK
Plume
defined

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: Texaco E & P Inc. Telephone _____
Address: 30-045-06772
Facility Or: J.Q. Marshall #1, Meter 70496
Well Name _____
Location: Unit or Qtr/Qtr Sec N Sec 1 T 27 R 9 County San Juan
Pit Type: Separator _____ Dehydrator X Other _____
Land Type: BLM X, State _____, Fee _____ Other _____



Pit Location: Pit dimensions: length 19', width 12', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 74'

Direction from reference: 347 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: 09/13/94 Date completed: 09/13/94

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: 10 yds. Fill

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 09/13/94 Sample time 14:00

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 198

TPH 1120

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

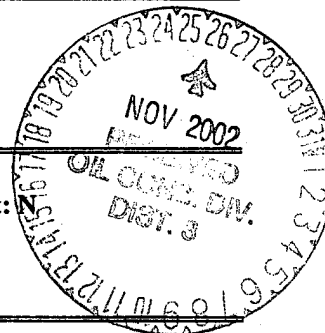
and Title

Senior ENV. Scientist



PIT CLOSURE REQUEST

JQ Marshall #1
Meter/Line ID 70496



SITE DETAILS

Legals - Twn: 27N

Rng: 9W

Sec: 1

Unit:

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Texaco E&P Inc.

Pit Closure Date: 9/13/94

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 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 198 ppm; laboratory analysis indicated a TPH concentration of 1,120 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 as well as 10 cubic yards of imported clean fill, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to refusal at 26 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 25-26 ft bgs. Headspace analysis indicated an organic vapor content of 200 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 in combination with the imported clean fill 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 26 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 25 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.
- Residual hydrocarbons in soil will most 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

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 70496 Location: JQ Marshall #1
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: N Section 1 Township: 27 Range: 9
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 3/26/98 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 Feet From center of Blanco Canyon

FIELD PIT SITE ASSESSMENT FORM

9

GENERAL

Meter: 70496 Location: JQ Marshall well #1
 Operator #: 0263 Operator Name: Texaco P/L District: Ballard
 Coordinates: Letter: N Section 1 Township: 27 Range: 9
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 6-14-94 Area: 11 Run: 71

SITE ASSESSMENT

NMOCD Zone:
 (From NMOCD
 Maps)

Inside
 Outside

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 Blanco Canyon

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks,
 Irrigation Canals, Ditches, Lakes, Ponds)

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

TOTAL HAZARD RANKING SCORE: 20 POINTS

REMARKS

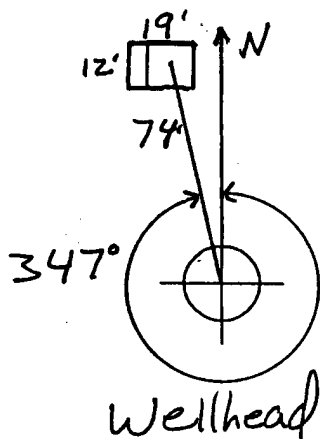
Remarks : one pit - dry

Outside V.Z. - Redline & Topo

Pash

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 347 Footage from Wellhead 74b) Length : 19 Width : 12 Depth : 3

REMARKS

Remarks :

Photos - 1426

Completed By:

Signature

6-14-44

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 70496 Location: JQ Marshal
 Coordinates: Letter: N Section 1 Township: 27 Range: 9
 Or Latitude _____ Longitude _____
 Date Started : 9-13-94 Run: 11 71

FIELD OBSERVATIONS

Sample Number(s): VW 278
 Sample Depth: 12 Feet
 Final PID Reading 198 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: 9-13-94 Pit Closed By: BEI

REMARKS

Remarks : _____

Signature of Specialist: Vale Wilson



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

VW 278

946119

70496

N/A

9-13-94

1400

N/A

9-15-94

9-15-94

N/A

N/A

VG

Brown/Grey coarse sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	1120	MG/KG			291.2 6.19	28
HEADSPACE PID	198	PPM				
PERCENT SOLIDS	95.2	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

J. F.

Date:

9/30/14



CHAIN OF CUSTODY RECORD

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		REMARKS	
LABID		DATE	TIME	MATRIX	SAMPLE NUMBER	SAMPLE TYPE	TPH	BTEX	EPA 8020
91	6114	9-13-94	1100	Soil	VW275	1 VG	X		
91	6117	9-13-94	1230	Soil	VW276	1 VG	X		
91	6118	9-13-94	1315	Soil	VW277	1 VG	X		
91	6119	9-13-94	1400	Soil	VW278	1 VG	X		
91	6120	9-13-94	1510	Soil	VW279	1 VG	X		
91	6121	9-13-94	1545	Soil	VW280	1 VG	X		

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		REMARKS	
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91	6118	9-13-94	1315	Soil	VW277	1 VG	X		
91	6119	9-13-94	1400	Soil	VW278	1 VG	X		
91	6120								

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road
 El Paso, New Mexico 87401
 (505) 326-2262 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 JO MARSHALL #1 70496

Elevation _____
 Borehole Location LTR: N S: 1 T: 27 R: 9
 GWL Depth NA
 Drilled By K. PADILLA
 Well Logged By H. BRADBURY
 Date Started 12/11/98
 Date Completed 12/11/98

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	15-16	12	LT BR SANDSTONE FINE SAND mod CEMENTATION, dry			0	0	8 93	855 hrs
20	2	20-21	12	LT GR SANDSTONE FINE SAND mod CEMENTATION, dry			0	0	93 296	906 hrs
25	3	25-26	12	LT BR SANDSTON. V FINE SAND, LOW CEMENTATION, dry			0	3	304 200	926 hrs
30				FOB 26'						
35										
40										

Comments:

HAB82 (25-26) SENT to Lab for TPH, BTEX GW NOT
 ENCOUNTERED BH grouted to surface
 AUGER REFUSAL at 25'

Geologist Signature

H. Bradbury



Natural Gas Company

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

Page:

of

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

FM-08-0565 A (Rev. 05-94)

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT**

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB82	980848
MTR CODE SITE NAME:	70496	JQ Marshall #1
SAMPLE DATE TIME (Hrs):	12/1/98	0926
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	12/8/98	12/8/98
DATE OF BTEX EXT. ANAL.:	12/7/98	12/8/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 25-26'

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	200	PPM				
PERCENT SOLIDS	90.9	%				

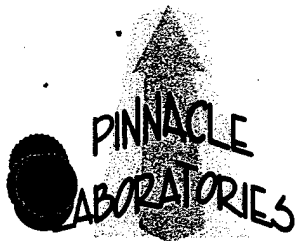
-- TPH is by EPA Method 8015 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 97.7 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: John L. Smith

Date: 12/21/98



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

GAS CHROMATOGRAPHY RESULTS

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

PINNACLE I.D.: 812032

SAMPLE		DATE		DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980848	NON-AQ	12/1/98	12/8/98	12/8/98	1
PARAMETER		DET. LIMIT	UNITS			
FUEL HYDROCARBONS, C6-C10		10	MG/KG		980848	
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG		< 10	
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG		< 5.0	
CALCULATED SUM:			MG/KG		< 5.0	

SURROGATE:

TERPHENYL (%)
SURROGATE LIMITS (66 - 151) 106

CHEMIST NOTES:

N/A

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John Lambdin		ANALYSIS REQUEST	
COMPANY: El Paso Field Services		NUMBER OF CONTAINERS	
ADDRESS: 770 W. NAVAJO		Metals:	
FARMINGTON, NM 87401		RCRA Metals (8)	
PHONE: (505) 599-2144		Target Analyte List Metals (23)	
FAX: (505) 599-2261		Priority Pollutant Metals (13)	
BILL TO: Above		General Chemistry:	
COMPANY:		Polynuclear Aromatics (610/8310)	
ADDRESS:		Base/Neutral/Acid Compounds GC/MS (625/8270)	
SAMPLE ID: 980848		Herbicides (615/8151)	
DATE: 12/1/98		Pesticides /PCB (608/8081)	
TIME: 0926		8260 (Landfill) Volatile Organics	
MATRIX: Soil		8260 (CUST) Volatile Organics	
LAB ID: 101		8260 (Full) Volatile Organics	
		8260 (TCL) Volatile Organics	
		504.1 EDB □ /DBCP □	
		8021 (CUST)	
		8021 (HALO)	
		8021 (EDX)	
		8021 (TCL)	
		8021 (BTEX) □ MTBE □ PCE	
		8021 (BTEX)/8015 (Gasoline)	
		(M8015) Gas/Purge & Trap	
		(MOD.8015) Diesel/Direct Inject	
		Petroleum Hydrocarbons (418.1) TRPH	

PROJECT INFORMATION		RELINQUISHED BY	
PROJ. NO.:		Signature:	Time:
PROJ. NAME: Phase II Drilling		Printed Name:	Date:
P.O. NO.:		Company:	
SHIPPED VIA: Fed Ex		RECEIVED BY (LAB)	
SAMPLE RECEIPT		Signature:	Time:
NO. CONTAINERS:	1	Printed Name:	Date:
CUSTODY SEALS:	09/1/NA	Company:	
RECEIVED INTACT:	YES	RECEIVED BY (LAB)	
BLUE ICE:	3°C	Signature:	Time:
		Printed Name:	Date:
		Company:	

BTEX SOIL SAMPLE WORKSHEET

File	:	980848	Date Printed	:	12/10/98
Soil Mass (g)	:	5.01	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):		200
Shot Volume (uL)	:	50	CAL FACTOR (Report):		0.19960

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	<0.5	Benzene (mg/Kg): #VALUE!	0.499
Toluene (ug/L)	:	<0.5	Toluene (mg/Kg): #VALUE!	0.499
Ethylbenzene (ug/L)	:	<0.5	Ethylbenzene (mg/Kg): #VALUE!	0.499
p & m-xylene (ug/L)	:	<1.0	p & m-xylene (mg/Kg): #VALUE!	0.998
o-xylene (ug/L)	:	<0.5	o-xylene (mg/Kg): #VALUE!	0.499
			Total xylenes (mg/Kg): #VALUE!	1.497
			Total BTEX (mg/Kg): #VALUE!	