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

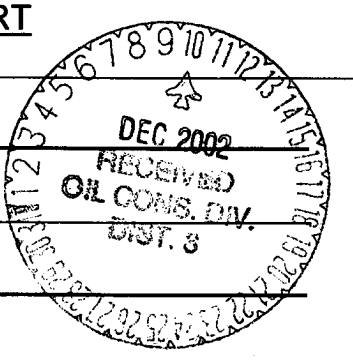
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Risk exceeds standards defined extent of plume TPH 126

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: Unocal 30-039-60092 Telephone: _____

Address: _____

Facility Or: Rincon Unit #68, Meter 71579
Well Name

Location: Unit or Qtr/Qtr Sec P Sec 27 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 18', width 20', depth 0'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 101'

Direction from reference: 105 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) 20
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): 20

Date Remediation Started: 12/01/94 Date completed: 12/01/94

Remediation Method: Excavation X Approx. cubic yards 70

(Check all appropriate sections.) Landfarmed _____ Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: Unocal had previously covered pit. Removed 12 yds of overburden .

Excavated pit to 12', took 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 12/01/94 Sample time 11:30

Sample Results

Benzene(ppm) 1.40

Total BTEX(ppm) 72.38

Field headspace(ppm) 369

TPH 17500

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

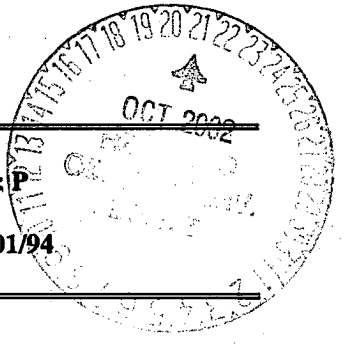
Signature Scott T. Pope

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

elpaso

PIT CLOSURE REQUEST

Rincon Unit #68
Meter/Line ID 71579



SITE DETAILS

Legals - Twn: 27N **Rng:7** **Sec:27** **Unit: P**
NMOCD Hazard Ranking: 20 **Land Type: BLM**
Operator: Unocal **Pit Closure Date: 12/01/94**

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.

The pit was excavated to 12 feet (ft) below ground surface (bgs) and a soil sample was collected for field headspace analysis and laboratory analysis for BTEX and TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 625 ppm. The laboratory analyses for BTEX failed QA/QC criteria and are not considered representative. The TPH concentration in the sample was 17,500 mg/kg, exceeding its recommended remediation level for the Hazard Ranking Score of 20.

Approximately 70 cubic yards of soil were excavated and hauled to Envirotech, 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 27 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 25-27 ft bgs. Headspace analysis indicated an organic vapor content of 16 pm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of 126 mg/kg. Benzene and total BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score. The TPH concentration slightly exceeded its recommended remediation level of 100 mg/kg for the Hazard Ranking Score of 20.

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 seven years.
- The impacted soil was disposed of offsite.
- 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 27 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.

- In the soil sample from 27 ft bgs, the TPH concentration only slightly exceeded the recommended remediation level of 100 mg/kg.
- The concentration at 27 ft bgs is less than 10% of the concentration at 12 ft bgs, indicating that significant downward constituent migration is not occurring. Furthermore, this reduction in concentration with depth indicates that residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to the environment.

ATTACHMENTS

Field Pit Assessment Form
Field Pit Remediation/Closure Form
Phase 2 Soil Boring Log
Laboratory Analytical Results

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 71579 Location: Rincon Unit # 68

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

Coordinates: Letter: P Section 27 Township: 27 Range: 7

Or Latitude _____ Longitude _____

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

Site Assessment Date: 11/4/94 Area: 03 Run: 32

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, 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 : Topo - Inside Redline - Outside

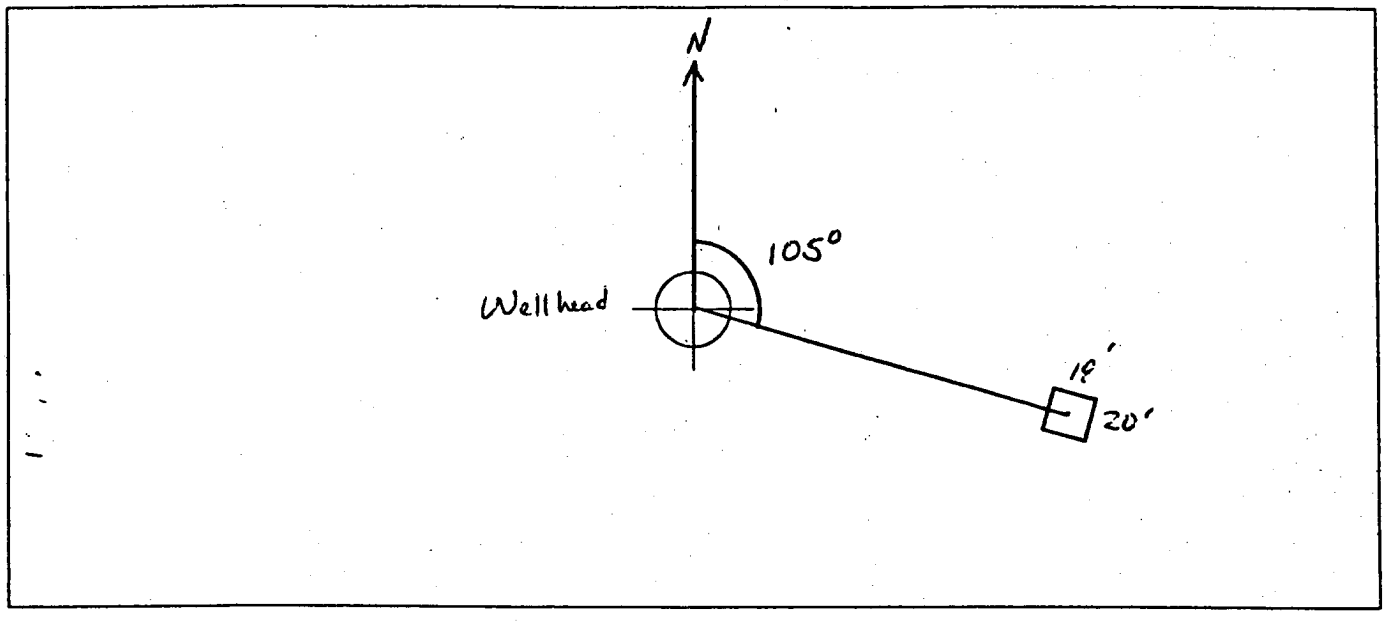
On zone boundry line

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 105° Footage from Wellhead 101'

b) Length : 18 Width : 20 Depth : 0



REMARKS

Remarks :

Pictures 1110 (17-20) Roll 2
OP 11/14/84

Pit appears to have been moved. All measurements and angles taken from surficial evidence of old pit location. Estimated center of pit marke w/ survey lath.

Completed By:

Scott T. Pope
Signature

11/14/84
Date

SPLIT

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 381	94/6516
MTR CODE | SITE NAME:	71579	N/A
SAMPLE DATE | TIME (Hrs):	12-1-94	1130
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	12-5-94	12-5-94
DATE OF BTEX EXT. | ANAL.:	12/5/94	12/7/94
TYPE | DESCRIPTION:	VC	Brown fine sand and clay

REMARKS: BTEX to be done at EPNG and ATI labs.

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)	ATI Results
BENZENE	1.40	MG/KG	0.2732		3.66	20	
TOLUENE	7.13	MG/KG					
ETHYL BENZENE	6.54	MG/KG					
TOTAL XYLENES	57.31	MG/KG					
TOTAL BTEX	72.38	MG/KG					
TPH (418.1)	17500	MG/KG			0.49	28	
HEADSPACE PID	369	PPM					Surrogate %
PERCENT SOLIDS	87.3	%					Dilution Factor

DL mg/kg
1.37
1.37
4.11

NOT USED 12/27/94

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

The Surrogate Recovery was at 177.9 for this samp All QA/QC was acceptable.

Narrative: Toluene estimated along with o-xylene
BFB coeluted w contaminants

DF = Dilution Factor Used ATI Results attached. * Surrogate Recovery not obtainable due to sample Dilution.

Approved By: _____ Date: 12/27/94

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 412325
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946515	NON-AQ	11/30/94	12/08/94	12/12/94	5
05	946516	NON-AQ	12/01/94	12/08/94	12/09/94	20
06	946517	NON-AQ	12/01/94	12/08/94	12/09/94	50

PARAMETER	UNITS	04	05	06
BENZENE	MG/KG	<0.13	1.7	3.5
TOLUENE	MG/KG	<0.13	10	54
ETHYLBENZENE	MG/KG	0.22	1.6	1.4
TOTAL XYLENES	MG/KG	2.4	9.8	61
SURROGATE:				
BROMOFLUOROBENZENE (%)		125	*	*

*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 71579 Location: Rincon Unit #68

Coordinates: Letter: P Section 27 Township: 27 Range: 7

Or Latitude _____ Longitude _____

Date Started : 12/1/94 Run: 03 32

FIELD OBSERVATIONS

Sample Number(s): KD 381 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 369 ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 70

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☒ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 12/1/94 Pit Closed By: BEI

REMARKS

Remarks : Unocal had previously covered pit, Removed 12 yds of overburden, Excavated pit to 12', Took PID Sample, Closed pit.

Signature of Specialist: Thomas Dean

(SP3191) 03/16/94

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME
# 24324	Pit Closure Project

SAMPLERS: (*Signature*) Kenny Deaver DATE: 12/1/94

LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	LAB PID			SEQUENCE #	REMARKS
94/6514	12/1/94	1130	Soil	KD 381	1	VC	X	X				345	

CONTRACT LABORATORY P. O. NUMBER

RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED BY: (*Signature*)
Kenny Deaver	12/1/94 1805	Brenda Pierce	Lynne Casebeer	12/2/94 1025	
RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED OF LABORATORY BY: (*Signature*)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499

505-599-2144 FAX: 505-599-2261

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

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

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG PITS
Project Number 14509 Phase 6000 77
Project Location Rincon Unit #68 71579

Elevation
Borehole Location QP- S27- T27- R7
GWL Depth
Logged By CM CHANCE
Drilled By 9/7/95 ~~K Padilla~~ S. Snider
Date/Time Started 9/7/95 - 1414
Date/Time Completed 9/7/95 - 1500

Well Logged By CM Chance
Personnel On-Site CMC 9/7/95 ~~K Padilla~~ D. Roberts, H Keil
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4" ID 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 BZ	BH	S HS	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	5"	Br CLAY, soft, med plastic, dry			0	10	83/440	1430 hr
20	2	20-22	6"	AA			0	20	183/863	1435
25	3	25-27	12"	Br silty CLAY, soft, low plastic, slt moist			0	18	28/16	1438
30				TDB 27'						
35										
40										

Comments: CMC 106 (25-27) sent to lab (BTEX, TPH) CMC 107 is duplicate of 106. CMC 108 is field Blank. Samples bagged & iced prior to containerization. BH grouted to surface.

Geologist Signature Cmg CChance

El Paso Natural Gas Company

Phase II Drilling

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER	PROJECT NAME													CONTRACT LABORATORY P. O. NUMBER
24324	Pit Closure Project													
SAMPLERS: (Signature) Cory Chavez				DATE: 9/7/95										
LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	LAB PID		PID HS PPM	SEQUENCE #		REMARKS
47411	9/7/95	0944	Soil	CMC102	1	VG	✓	✓			4	96		Bagged & Iced 15-17' San Juan 28-7 Unit 86 72267
47412		1026		CMC103	1	VG	✓	✓			9	97		Bagged & Iced 25-27 San Juan 28-7 Unit 86 72268
47413		1202		CMC104	1	VG	✓	✓			18	98		20-20.5 Rincon Unit #67 71447
47414		1335		CMC105	1	VG	✓	✓			1102	99		32-32.5 Rincon Unit #70 71580
47415		1438		CMC106	1	VG	✓	✓			16	100		Bagged & Iced 25-27 Rincon Unit #68 71579
47416		1438		CMC107	1	D	✓	✓			16	100		DUP "
47417		1450		CMC108	1	B	✓	✓			NA	100		Field Blank "
47418		1522		CMC109	1	VG	✓	✓			4	101		15-17' Rincon Unit 37 70969
47419	9/7/95	1607	soil	CMC110	1	VG	✓	✓			18	102		24-25 Rincon Unit 39 70957
								Cory	9/7/95					

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Cory Chavez	9/7/95 1830	Cindy Dewitt	Cindy Dewitt	9/8/95 9:35	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☒ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499
505-599-2144 FAX: 505-599-2261

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

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC106	947415
MTR CODE | SITE NAME:	71579	Rincon Unit #68
SAMPLE DATE | TIME (Hrs):	09/07/95	1438
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9-8-95	
DATE OF BTEX EXT. | ANAL.:	9/8/95	9/12/95
TYPE | DESCRIPTION:	VG	DARK 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)	126	MG/KG			1.97	28
HEADSPACE PID	16	PPM				
PERCENT SOLIDS	90.8	%				

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

The Surrogate Recovery was at 97% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 9-13-95

BTEX SOIL SAMPLE WORKSHEET

File	947415	Date Printed	9/13/95	
Soil Mass (g)	5.04	Multiplier (L/g)	0.00099	
Extraction vol. (mL)	20	DF (Analytical)	200	
Shot Volume (uL)	100	DF (Report)	0.19841	

			Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.496
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.496
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.496
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	0.992
o-xylene (ug/L)	1.29	o-xylene (mg/Kg):	0.256	0.496
		Total xylenes (mg/Kg):	**0.256**	1.488
		Total BTEX (mg/Kg):	**0.256**	