

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 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: Unocal Telephone: \_\_\_\_\_

Address: 30-039-06925

Facility Or: Rincon Unit #70, Meter 71580

Well Name \_\_\_\_\_

Location: Unit or Qtr/Qtr Sec A 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 16', depth 0'

(Attach diagram)

Reference: wellhead X, other \_\_\_\_\_

Footage from reference: 82'

Direction from reference: 163 Degrees X East North \_\_\_\_\_  
of \_\_\_\_\_ West South \_\_\_\_\_

Depth To Ground Water TPH 1380 at 32 feet 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) 20  
high water elevation of  
ground water.)

Wellhead Protection Area: Yes (20 points)  
(Less than 200 feet from a private No (0 points) 0  
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) 0  
irrigation canals and ditches.)

RANKING SCORE (TOTAL POINTS): 20 0

Date Remediation Started: 12/01/94 Date completed: 12/02/94

Remediation Method: Excavation X Approx. cubic yards 100

(Check all appropriate sections.)

Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

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

General Description of Remedial Action: Unocal had previously covered pit. Removed 14 yds of clean backfill .  
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 12/02/94 Sample time 09:50

#### Sample Results

Benzene(ppm) <0.47

Total BTEX(ppm) 11.43

Field headspace(ppm) 227

TPH 199

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

Rincon Unit #70  
Meter/Line ID 71580

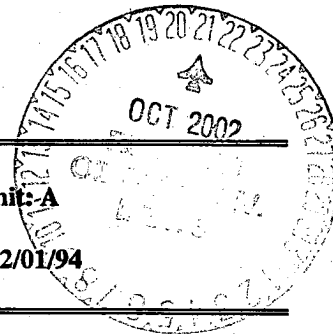
### SITE DETAILS

Legals - Twn: 27N  
NMOCD Hazard Ranking: 20  
Operator: Unocal

Rng:7

Sec:27  
Land Type: BLM  
Pit Closure Date: 12/01/94

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.

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 results for BTEX exceeded QA/QC criteria and are not considered representative. The TPH concentration in the sample was 199 mg/kg, exceeding its recommended remediation level for the Hazard Ranking Score of 20.

Approximately 100 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 refusal at 32.5 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 32-32.5 ft bgs. No headspace analysis was conducted. Laboratory analysis indicated a benzene concentration of 2.3 mg/kg, a total BTEX concentration of 21.9 mg/kg, and a TPH concentration of 1,380 mg/kg. Benzene and total BTEX concentrations were below recommended remediation levels. The TPH concentration exceeded its recommended remediation level 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 32.5 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

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### 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: 71580 Location: RINCON unit #70  
 Operator #: \_\_\_\_\_ Operator Name: Unocal P/L District: Blanco  
 Coordinates: Letter: A Section 27 Township: 27 Range: 7  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Pit Type: Dehydrator \_\_\_\_\_ Location Drip: X Line Drip: \_\_\_\_\_ Other: \_\_\_\_\_  
 Site Assessment Date: 11/14/94 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

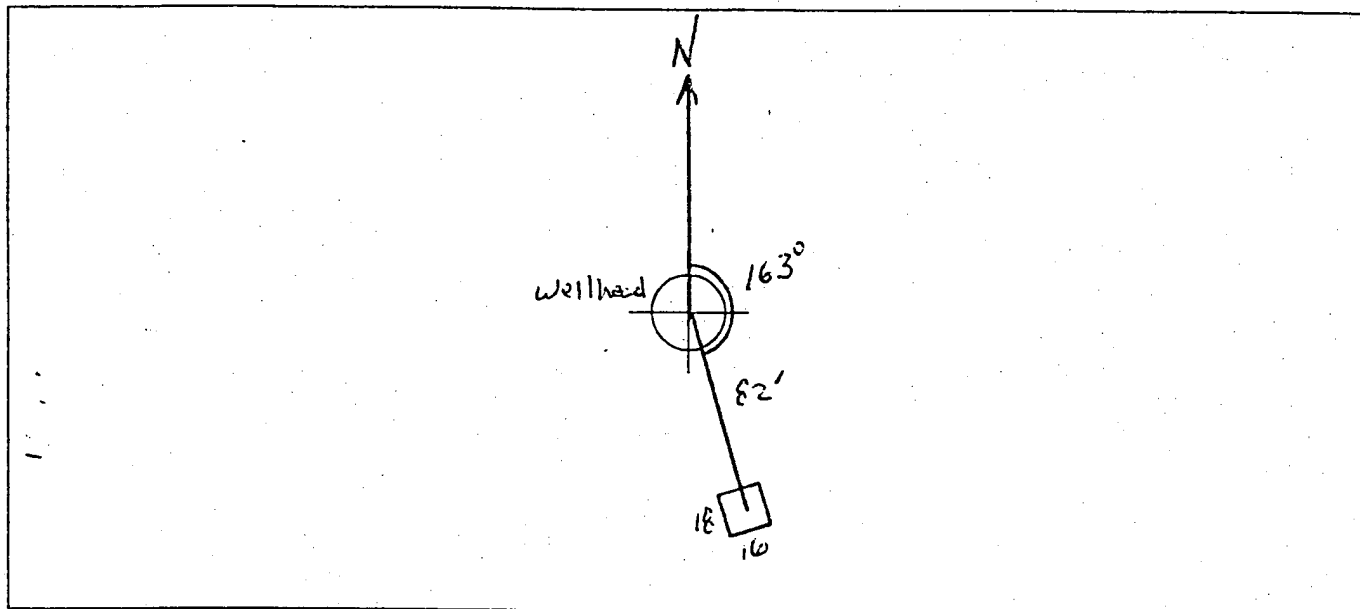
REMARKS

Remarks : Topo - Inside Red line - outside

ORIGINAL PIT LOCATION

### ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 163° Footage from Wellhead 82'  
b) Length : 18 Width : 16 Depth : 0



REMARKS

Remarks :

<sup>6 SP 11/14/94</sup>  
Pictures 1050 (13-17) Roll 1

Pit appears to have been moved. All measurements and angles taken from surficial evidence of old pit. Estimated center of pit made by survey lathe

Completed By:

Steve T. Price

Signature

11/14/94

Date

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 71580 Location: Rincon unit #70  
 Coordinates: Letter: A Section 27 Township: 27 Range: 7  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 12/1/94 Run: 03 32

FIELD OBSERVATIONS

Sample Number(s): KD 382  
 Sample Depth: 12' Feet  
 Final PID Reading 227 ppm PID Reading Depth 12' Feet  
 Yes No  
 Groundwater Encountered ☐ ☒ Approximate Depth \_\_\_\_\_ Feet

CLOSURE

Remediation Method :  
 Excavation ☒ Approx. Cubic Yards 100  
 Onsite Bioremediation ☐  
 Backfill Pit Without Excavation ☐  
 Soil Disposition:  
 Envirotech ☒ ☐ Tierra  
 Other Facility ☐ Name: \_\_\_\_\_  
 Pit Closure Date: 12/2/94 Pit Closed By: BEI

REMARKS

Remarks : Unocal had previously Covered pit, Removed 14 yds  
of clean BACKFILL. EXCAVATED pit to 12', took pid Sample, closed  
pit.

Signature of Specialist: Thuy D. Le

## FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 382	946521
MTR CODE   SITE NAME:	71580	N/A
SAMPLE DATE   TIME (Hrs):	12-2-94	0950
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	12-5-94	12-5-94
DATE OF BTEX EXT.   ANAL.:	12/6/94	12/9/94
TYPE   DESCRIPTION:	VC	Brown sand + clay

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

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
BENZENE	0.47	MG/KG	0.0947		4.22	20	0.25
TOLUENE	1.84	MG/KG					0.25
ETHYL BENZENE	0.74	MG/KG					0.31
TOTAL XYLENES	8.85	MG/KG					2.1
TOTAL BTEX	11.43	MG/KG					2.91
TPH (418.1)	199	MG/KG			1.97	28	
HEADSPACE PID	227	PPM					Surrogate % 170.94
PERCENT SOLIDS	88.2	%					Dilution Factor 10

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

The Surrogate Recovery was at 161.0 for this samp All QA/QC was acceptable.

NOTE: BFB excluded

ATI Results attached

o-xylene estimated

DF = Dilution Factor Used

Approved By:

Date:

12/27/94

OL  
0.47  
1.41

NOT US





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
10	946521	NON-AQ	12/02/94	12/08/94	12/12/94	10
11	946522	NON-AQ	12/02/94	12/08/94	12/12/94	20
12	946523	NON-AQ	12/02/94	12/08/94	12/12/94	1
PARAMETER			UNITS	10	11	12
BENZENE			MG/KG	<0.25	<0.50	<0.025
TOLUENE			MG/KG	<0.25	3.9	0.03
ETHYLBENZENE			MG/KG	0.31	5.1	0.07
TOTAL XYLENES			MG/KG	2.1	43	0.31

## SURROGATE:

BROMOFLUOROBENZENE (%) 94 \* 95

\*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION



**Eli Lilly**  
Natural Gas Company

## CHAIN OF CUSTODY RECORD

Page \_\_\_\_\_ of \_\_\_\_\_

[illegible]

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

FORM 955-A (Rev. 7-5-91)

# RECORD OF SUBSURFACE EXPLORATION

## PHILIP ENVIRONMENTAL

4000 Monroe Road  
Farmington, New Mexico 87401  
(505) 326-2282 FAX (505) 326-2388

Borehole # BH-1

Well # 1

Page 1 of 1

Project Name EPNG PITS

Project Number 14509

Phase 6000 77

Project Location Rincon Unit #70

71580

Elevation                     

Borehole Location QA-S27-T27-R7

GWL Depth                     

Logged By CM CHANCE

Drilled By CMC K Padilla S. Snider

Date/Time Started 9/7/95 - 1255

Date/Time Completed 9/7/95 - 1250

Well Logged By CM Chance

Personnel On-Site CMC K Padilla D. Roberts, H. Kerl

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			Drilling Conditions & Blow Counts
							BZ	BH	HS	
0				Backfill to 12'						
5										
10										
15										
15	1	18-20	6"	Dr sandy CLAY, vF sand, med stiff, sl moist			2	17	311 1192	CMC 9/7/95 1302 hr
20	2	20-25	10"	lt gray silty SAND, vF sand, med dense, sl moist			0	20	400 1468	1307
25	3	28-30	6"	AA			8	39	394 941	1315
30	4	32-34	4"	lt gray silty CLAY, hard, nonplastic, dry			0	28	495 1102	Refusal @ 32' w/ augers 1325
35				TDB 32.5'						
40										

Comments:

CMC 105 (32-32.5') sent to lab (BTEX, TPH). Refusal w/ augers @ 32'.  
BH grouted to surface

Geologist Signature

CMC Chance

Page 1 of 1

PROJECT NAME		DATE		FIELD ID		MATRIX		TIME		DATE		LAB	
Pit Closure Project		9/7/95											
LAB	LAB	DATE	TIME	MATRIX	FIELD ID	DATE	TIME	MATRIX	FIELD ID	LAB	LAB	DATE	TIME
47411	47411	9/7/95	0944	SOIL	CMC102	9/7/95	0944	SOIL	CMC102	LAB	LAB	DATE	TIME
47412	47412	↑	1026	↑	CMC103	↑	1026	↑	CMC103	LAB	LAB	DATE	TIME
47413	47413	↑	1202	↑	CMC104	↑	1202	↑	CMC104	LAB	LAB	DATE	TIME
47414	47414	↑	1335	↑	CMC105	↑	1335	↑	CMC105	LAB	LAB	DATE	TIME
47415	47415	↑	1438	↑	CMC106	↑	1438	↑	CMC106	LAB	LAB	DATE	TIME
47416	47416	↑	1438	↑	CMC107	↑	1438	↑	CMC107	LAB	LAB	DATE	TIME
47417	47417	↑	1450	↑	CMC108	↑	1450	↑	CMC108	LAB	LAB	DATE	TIME
47418	47418	↓	1522	↓	CMC109	↓	1522	↓	CMC109	LAB	LAB	DATE	TIME
47419	47419	9/7/95	1607	soil	CMC110	9/7/95	1607	soil	CMC110	LAB	LAB	DATE	TIME

UNINQUISHED BY: (Signature) *Cory Chane*

UNINQUISHED BY: (Signature) *Cory Chane*

RECEIVED BY: (Signature) *[Signature]*

RECEIVED BY: (Signature) *[Signature]*

DATE/TIME 9/7/95 1830

DATE/TIME

REINQUISHED BY: (Signature) *[Signature]*

REINQUISHED BY: (Signature) *[Signature]*

DATE/TIME 9/7/95 1830

DATE/TIME

RECEIVED BY: (Signature) *[Signature]*

RECEIVED BY: (Signature) *[Signature]*

REQUESTED TURNAROUND TIME: ROUTINE ☐ RUSH ☐

CARRIER CO. \_\_\_\_\_

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY

EL PASO NATURAL GAS COMPANY

P. O. BOX 4990

FARMINGTON, NEW MEXICO 87499

CHARGE CODE

505-599-2144

FAX: 505-599-2261



FIELD SERVICES LABORATORY  
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC105	947414
MTR CODE   SITE NAME:	71580	Rincon Unit #70
SAMPLE DATE   TIME (Hrs):	09/07/95	1335
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	LIGHT GRAY SANDY SANDSTONE

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	2.3	MG/KG	4	D		
TOLUENE	9.6	MG/KG	4	D		
ETHYL BENZENE	< 2	MG/KG	4	D		
TOTAL XYLENES	10.0	MG/KG	4	D		
TOTAL BTEX	21.9	MG/KG	4	D		
TPH (418.1)	1380	MG/KG			2.04	28
HEADSPACE PID	1102	PPM				
PERCENT SOLIDS	73.3	%				

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

The Surrogate Recovery was at 90% for this sample All QA/QC was acceptable.  
ative:

DF = Dilution Factor Used

Approved By:

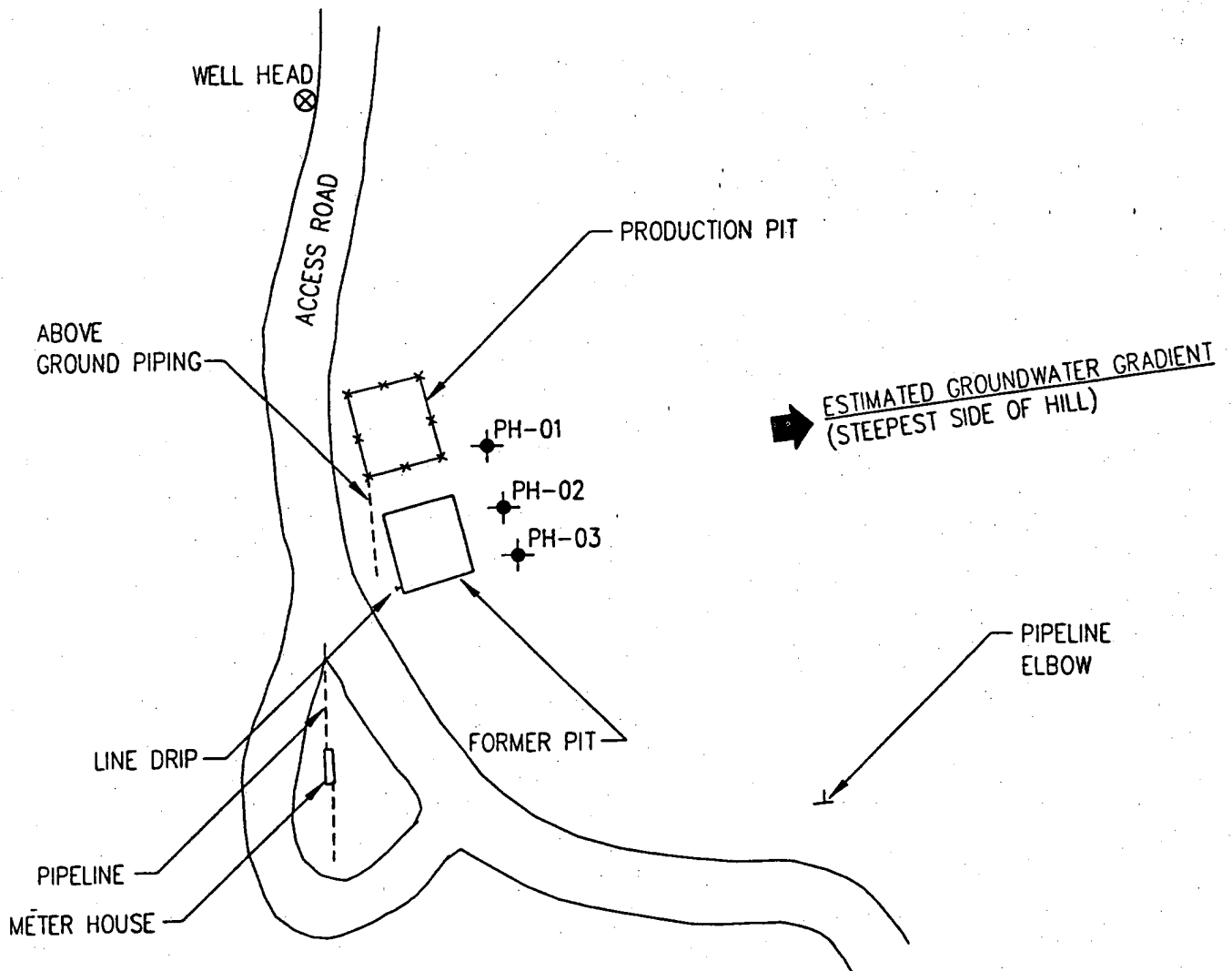
Date:

9-13-95

# BTEX SOIL SAMPLE WORKSHEET

File	:	947414	Date Printed	:	9/13/95
Soil Mass (g)	:	5.07	Multiplier (L/g)	:	0.00099
Extraction vol. (mL)	:	20	DF (Analytical)	:	800
Shot Volume (uL)	:	25	DF (Report)	:	0.78895

			Det. Limit
Benzene (ug/L)	:	2.90	Benzene (mg/Kg): 2.288 1.972
Toluene (ug/L)	:	12.16	Toluene (mg/Kg): 9.594 1.972
Ethylbenzene (ug/L)	:	1.23	Ethylbenzene (mg/Kg): 0.970 1.972
p & m-xylene (ug/L)	:	9.19	p & m-xylene (mg/Kg): 7.250 3.945
o-xylene (ug/L)	:	3.46	o-xylene (mg/Kg): 2.730 1.972
			Total xylenes (mg/Kg): 9.980 5.917
			Total BTEX (mg/Kg): 22.832



### EXPLANATION

- PH-03 APPROXIMATE PROBE HOLE LOCATION AND NUMBER  
 FENCE



APPROX. SCALE  
 0 15 30 FEET

T27 R7 SEC 27 UNIT A

J:\13947\CM\CL003

**PHILIP**  
**ENVIRONMENTAL**

TITLE:  
 RINCON UNIT NO. 70  
 METER 71580  
 "SOIL GAS ONLY"

DWN: M.R.W.	DES.:	PROJECT NO.: 13947
CHKD: K.B.G.	APPD:	EPNG-RECON PITS
DATE: 11/16/95	REV.: 1	FIGURE 3