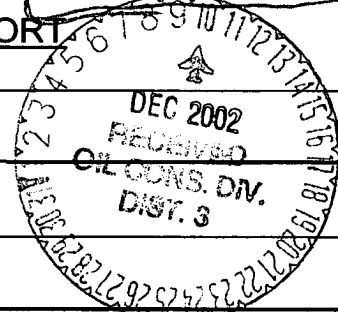


District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RISK-BTEX ☒
Submit 1 copy to appropriate
District Office
and 1 copy to
the Santa Fe Office
(Revised 3/9/94)
exceeds
standards
define
plume
BTEX-69 at 23 ft.

PIT REMEDIATION AND CLOSURE REPORT



Operator: Unocal Telephone: _____

Address: 30-039-06858

Facility Or: Rincon Unit #48, Meter 71025
Well Name _____

Location: Unit or Qtr/Qtr Sec N Sec 30 T 27 R 06 County Rio Arriba

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 12', width 11', depth 0'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 113'

Direction from reference: 319 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>0</u>
---	--	--

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) <u>0</u>
---	--

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>
--	---	--

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 01/09/95 Date completed: 01/10/95

Remediation Method: Excavation X Approx. cubic yards 50

(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: Some line markers. Started remediating to 12'. Soil turned gray looking with hydrocarbon odor. At 12' soil light gray.

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 01/10/95 Sample time 10:15

Sample Results

Benzene(ppm) 1.01

Total BTEX(ppm) 207

Field headspace(ppm) 132

TPH 3470

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 1/10/03

Signature

Printed Name
and Title

Scott T. Pope
Senior Env. Scientist



PIT CLOSURE REQUEST

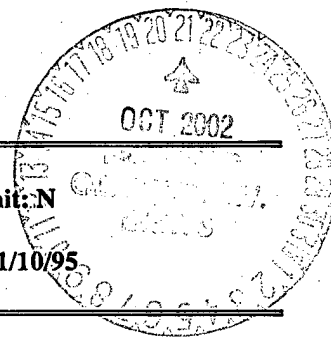
Rincon Unit # 48
Meter/Line ID 71025

SITE DETAILS

Legals - Twn: 27N
NMOCD Hazard Ranking: 0
Operator: Unocal

Rng: 6

Sec: 30 Unit: N
Land Type: BLM
Pit Closure Date: 01/10/95



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 132 ppm; laboratory analysis indicated a benzene concentration of <1.01 mg/kg, a total BTEX concentration of 207 mg/kg, and a TPH concentration of 3,470 mg/kg. The benzene and TPH concentrations were below their respective recommended remediation levels for the Hazard Ranking Score of 0. The total BTEX concentration exceeded its recommended remediation level for the Hazard Ranking Score.

Approximately 50 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 23 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 18-20 ft bgs. Headspace analysis indicated an organic vapor content of 679 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 69.3 mg/kg, and a TPH concentration of 1,870 mg/kg. Benzene and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score. The total BTEX concentration exceeded its recommended remediation level for the Hazard Ranking Score.

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 six 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 23 ft bgs; local geologic features indicate that the depth to groundwater is over 100 feet bgs.



PIT CLOSURE REQUEST

- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- The TPH concentration at 22 ft bgs was approximately half of what it was at 12 ft bgs; BTEX concentrations were reduced by approximately two thirds. This strong attenuation with depth indicates that residual hydrocarbons in the soil will degrade by natural attenuation with minimal risk to the environment.
- Hard drilling was encountered in the soil boring at 12.5 ft bgs, making further excavation impractical.

ATTACHMENTS

Field Pit Assessment Form

Revised Field Pit Assessment Form

Field Pit Remediation/Closure Form

Phase 2 Soil Boring Log

Laboratory Analytical Results

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 71025 Location: RINCON UNIT #48
 Operator #: _____ Operator Name: UNOCAL P/L District: BLANCO
 Coordinates: Letter: N Section 30 Township: 27 Range: 6
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 12.5.94 Area: 03 Run: 62

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 EPHEMERAL DRAINAGE TO TALLUICHE 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'

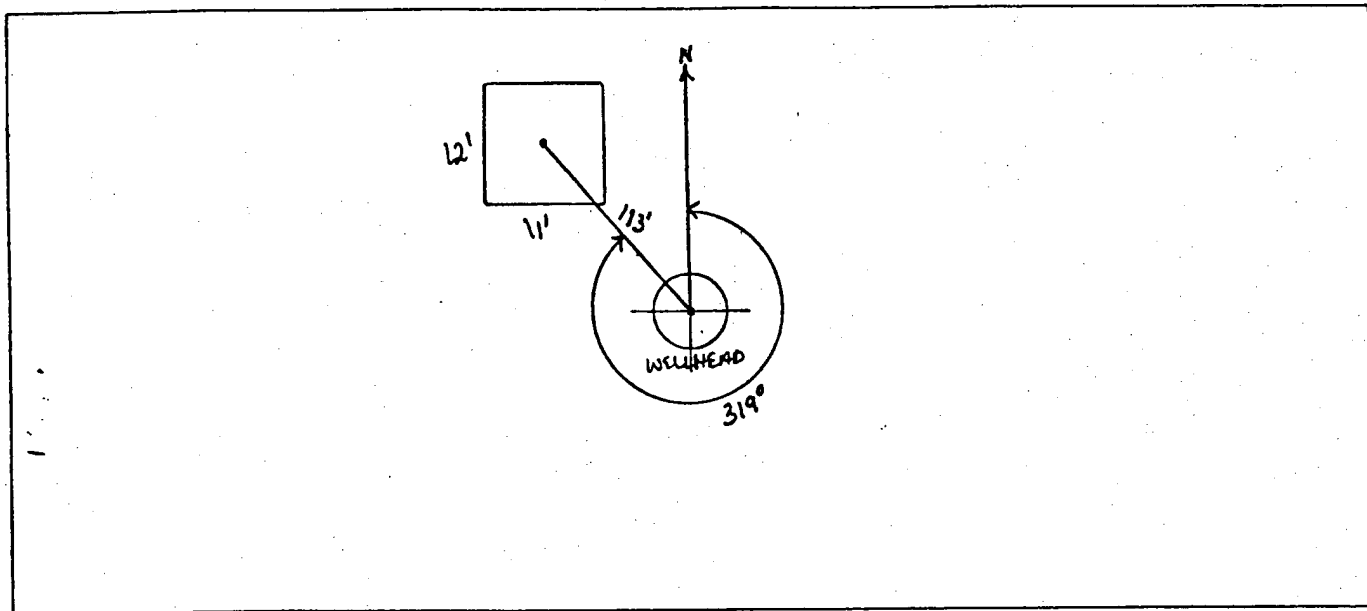
TOTAL HAZARD RANKING SCORE: 10 POINTS

REMARKS

Remarks : REDLINE & TOPO SHOW LOCATION IS INSIDE V.I.Z. NO PITS ON THIS LOCATION. EPNG LOCATION DRIP HAS BEEN CLOSED. WILL RE-DIG CLOSED PIT. NOTE ORANGE STAKE.


ORIGINAL PIT LOCATION

REMARKS



PHOTOS-1128

Completed By:


Signature

12.5-94
Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 71025 Location: Rincon Unit #48
Operator #: _____ Operator Name: UNOCAL P/L District: BLANCO
Coordinates: Letter N Section 30 Township: 27 Range: 6
or Latitude _____ Longitude _____
Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
Site Assessment Date: 12/5/94 Area: 03 Run: 62
Revised Date: 9/19/02

SITE ASSESSMENT

NMOCD Zone:
(from NMCOD Maps)

Land Type:

	BLM	<input checked="" type="checkbox"/> (1)
	State	<input type="checkbox"/> (2)
	Fee	<input type="checkbox"/> (3)
	Indian	_____

Inside ☒ (1)
Outside ☐ (2)

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 _____

(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 0 **POINTS**

REMARKS

Remarks: REVISION BASED ON DISTANCE TO SURFACE
WATER BODY



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 374	946561
MTR CODE SITE NAME:	71025	N/A
SAMPLE DATE TIME (Hrs):	1-10-95	1015
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	1-12-95	1-12-95
DATE OF BTEX EXT. ANAL.:	1/11/95	1/12/95
TYPE DESCRIPTION:	VC	Gray/Brown sand + clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<1.01	MG/KG	0.20284		4.43	20
TOLUENE	55.7	MG/KG	I		I	I
ETHYL BENZENE	13.9	MG/KG	I		I	I
TOTAL XYLENES	136	MG/KG				
TOTAL BTEX	207	MG/KG				
TPH (418.1)	3470	MG/KG			2.02	28
HEADSPACE PID	132	PPM				
PERCENT SOLIDS	92.0	%				

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

The Surrogate Recovery was at 191 % for this sample All QA/QC was acceptable.
Narrative:

BFB correlated

DF = Dilution Factor Used

Approved By:

Date:

2-7-22-95

BTEX SOIL SAMPLE WORKSHEET

File : 946561A
Soil Mass (g) : 4.93
Extraction vol. (mL) : 20
Shot Volume (uL) : 100

Date Printed : 1/16/95
Multiplier (L/g) : 0.00101
DF (Analytical) : 200
DF (Report) : 0.20284

			Det. Limit
Benzene (ug/L) :	4.85	Benzene (mg/Kg):	0.984 1.014
Toluene (ug/L) :	274.75	Toluene (mg/Kg):	55.730 1.014
Ethylbenzene (ug/L) :	68.58	Ethylbenzene (mg/Kg):	13.911 1.014
p & m-xylene (ug/L) :	401.23	p & m-xylene (mg/Kg):	81.385 2.028
o-xylene (ug/L) :	268.89	o-xylene (mg/Kg):	54.542 1.014
		Total xylenes (mg/Kg):	135.927 3.043
		Total BTEX (mg/Kg):	206.552

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 71025 Location: RINCON UNIT #48
 Coordinates: Letter: N Section 30 Township: 27 Range: 6
 Or Latitude _____ Longitude _____
 Date Started : 1-9-95 Run: 03 62

FIELD OBSERVATIONS

Sample Number(s): KP374
 Sample Depth: 12' Feet
 Final PID Reading 132 PID Reading Depth 12' Feet
 Yes No
 Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet

CLOSURE

Remediation Method :
 Excavation ☒ Approx. Cubic Yards 50
 Onsite Bioremediation ☐
 Backfill Pit Without Excavation ☐
 Soil Disposition:
 Envirotech ☒ ☐ Tierra
 Other Facility ☐ Name: _____
 Pit Closure Date: 1-10-95 Pit Closed By: B.EI

REMARKS

Remarks : SOME LINE MARKERS STARTED REMEDIATING TO 12'
SOIL TURNED GRAY LOOKING WITH HYDROCARBON ODOOR.
AT 12' SOIL LIGHT GRAY.

Signature of Specialist: Kelly Padilla



Page _____ of _____

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

RECORD OF SUBSURFACE EXPLORATION

Phillip Environmental Services Corp.
 200 Monroe Road
 Farmington, New Mexico 87401
 (505) 326-2262 FAX (505) 326-2388

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

Project Name EPNG Pits
 Project Number 14509 Phase 60T 6000
 Project Location Rincon Unit #48, 71025

Elevation _____
 Borehole Location T.27, R.6, S.30, N
 GWL Depth _____
 Logged By S. Kelly
 Drilled By M. Donohue
 Date/Time Started 9/19/95, 0900
 Date/Time Completed 9/19/95, 1115

Well Logged By S. Kelly
 Personnel On-Site M. Donohue, C. Milligan
 Contractors On-Site _____
 Client Personnel On-Site _____

Drilling Method 4 1/4" ID HSA
 Air Monitoring Method CGI, 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: NDU BZ BH	Drilling Conditions & Blow Counts
0				Backfill to 12'				
5								
10								Drilling gets hard at 12.5' (approx.) like rock
15								Drilling is very slow.
20	1	18-20	.7' / 2.0'	SILT, brown, dense, dry			2 67A 1000	Auger refusal at 22'.
25	2 OK 9/19/95	22-24 23	.1' / 1.0'	TOB - 23.0'			1620 365 840	Tried to press 2 spoon. Recovery not sufficient to sample.
30								
35								
40								

Comments:

18'-20' sample (SEK87) sent to lab (BTEX & TPH). Sample was bagged and iced prior to being put in jar. BH grouted to surface.

Geologist Signature

Smith Keller



Phase II
Dilution

Page _____ of _____

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



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEX87	94 7494
MTR CODE SITE NAME:	71025	Rincon Unit #48
SAMPLE DATE TIME (Hrs):	09-19-95	1000
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL:	9-20-95	
DATE OF BTEX EXT. ANAL:	9/20/95	9/22/95
TYPE DESCRIPTION:	V6	Dark brown sand and clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	mh 4.2 2.1	MG/KG				
ETHYL BENZENE	mh 11.3 5.6	MG/KG				
TOTAL XYLENES	mh 23 61.6	MG/KG				
TOTAL BTEX	mh 39 69.3	MG/KG				
TPH (418.1)	1870 1866 <small>ELB 9/21/95</small>	MG/KG				28
HEADSPACE PID	679	PPM				
PERCENT SOLIDS	92.2	%				

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

The Surrogate Recovery was at 106% for this sample All QA/QC was acceptable.
Narrative:

AT 1 Results for mod 8015 attached (4800).

DF = Dilution Factor Used

LD

9-26-95

BTEX SOIL SAMPLE WORKSHEET

File	:	947494	Date Printed	:	9/25/95
Soil Mass (g)	:	4.98	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	10	DF (Analytical)	:	200
Shot Volume (uL)	:	50	DF (Report)	:	0.20080

			Det. Limit
Benzene (ug/L)	:	0.99	Benzene (mg/Kg): 0.199 0.502
Toluene (ug/L)	:	10.50	Toluene (mg/Kg): 2.108 0.502
Ethylbenzene (ug/L)	:	28.10	Ethylbenzene (mg/Kg): 5.643 0.502
p & m-xylene (ug/L)	:	254.00	p & m-xylene (mg/Kg): 51.004 1.004
o-xylene (ug/L)	:	53.00	o-xylene (mg/Kg): 10.643 0.502
			Total xylenes (mg/Kg): 61.647 1.506
			Total BTEX (mg/Kg): 69.596



Analytical Technologies, Inc.

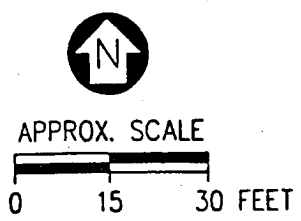
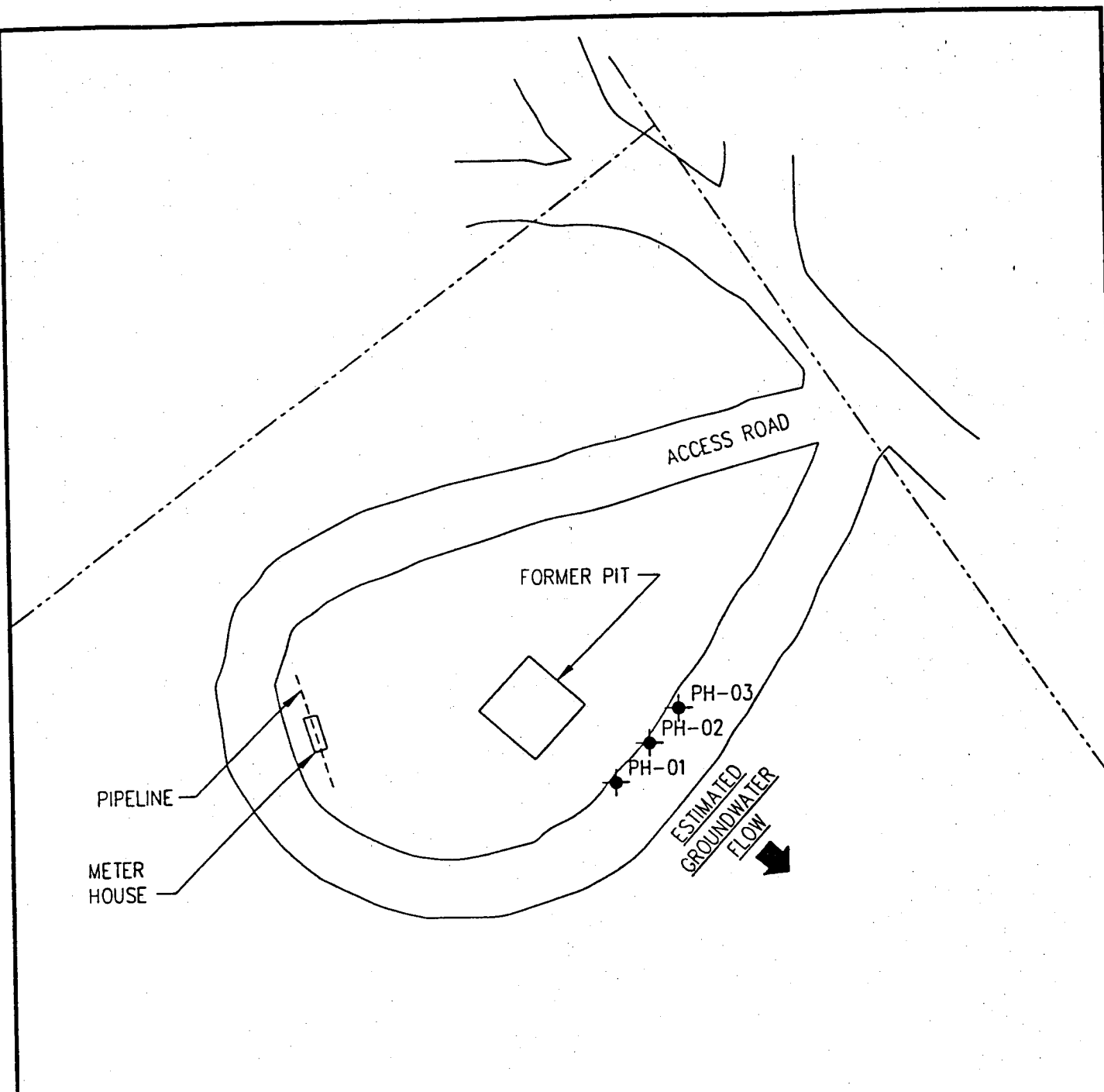
GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED
CLIENT : EL PASO NATURAL GAS ATI I.D.: 509397
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	947482	NON-AQ	09/16/95	09/28/95	09/28/95	1
05	947494	NON-AQ	09/19/95	09/28/95	09/29/95	10
06	947497	NON-AQ	09/19/95	09/28/95	09/28/95	1
PARAMETER			UNITS	04	05	06
FUEL HYDROCARBONS			MG/KG	42	4800	98
HYDROCARBON RANGE				C9-C32	C6-C14	C10-C36
HYDROCARBONS QUANTITATED USING				DIESEL	GASOLINE	DIESEL

SURROGATE:

O-TERPHENYL (%) 80 74 93



EXPLANATION

- WELL HEAD ⊗
- PH-03 APPROXIMATE PROBE HOLE LOCATION AND NUMBER
- OVERHEAD POWERLINE

T27 R6 SEC 30 UNIT N

J:\13947\CM\CL001



TITLE:
RINCON UNIT NO. 48
METER 71025
"SOIL GAS ONLY"

DWN: M.R.W.	DES.:
CHKD: K.B.G.	APPD:
DATE: 11/16/95	REV.: 1

PROJECT NO.: 13947
EPNG-RECON PITS

FIGURE 1