DISTRICT I
P.O. Box 1980. Hobbs.NM 88240
DISTRICT II
P.O. Drawer DD. Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department OIL & GAS INSPECTOR RIATE
DISTRICT OFFICE

SEP 10 1996 AND 1 COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504—2088

(Revised 39/94)

# PIT REMEDIATION AND CLOSURE REPORT

Operator: UNOCAL			
Address: P.O. Box 760 M	loab, Utah 84532		Telephone: '801 -686 - 7604
	29A Mesa Verde		
Location: Unit or Qtr/Qtr Sec	D Sec22	T 27N R 6W County	Rio Arriba
Pit Type: Separator	Deyhdrator	Other Dehydrator/tank	
Land Type: BLM X,	State, Fee	, Other	
(Attach diagram)	t dimensions: Length 29'		, depth <u>3</u> -4'
	eference: well head	, Other Dehydrator	,
Di	rection from reference: 95	Degerees X	East North X of West South
Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of		Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) 0
wellhead Protection Area: (Less than 200 feet from a priavate domestic water source, or; less than 1000 feet from all water sources)	DECENTE DEC 2 0 1995 ODL GOM. DO	<u>U</u>	/es (20 points) No (0 points)
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	<b>bibl</b> . 9	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)
		RANKING SCORE (TOTAL POIN	TS) : 0

Date Remediation	Started: 09/23/94	Date completed: 09/23/94
Remediation Method	t: Excavation X	Approx. cubic yards 85
(Check all appropriate sections)	Landfarmed X	Insitu Bioremediaiton
	Other	
Remediation Locatio	n: Onsite X Offsite	
(ie. landfarmed onsite, offsite facility)	name and location of	
General Description	of Remedial Action: Excavated soil	to a depth of 3'. Hit sandstone. Refilled with clean soil.
	lled tank with leak detection.	
	soil was landfarmed on the Rincon U	
		test results and the Landfarm test results below.
TPH = 124.1  mg/kg	BTEX = Non detect with PID for o	organic vapors.
Ground Water Encou	intered: No X Yes	Depth
Final Pit: 5 Closure Sampling: (if multiple samples,	Sample location Final sample @ sha	ale/sandstone bottom – 3'
attach sample results and diagram of sample S locations and depths)	Sample depth3'	
- 1	Sample date 09/23/94	Sample time
\$	Sample Results	
	Benzene (ppm) 1.2	
	Total BTEX (ppm) 22.1	
	Field headspace (ppm) >2	<del></del>
	TPH19,750 ppm	
Ground Water Sampl	e: Yes No X (if yes,	attach sample results)
I HEREBY CERT OF MY KNOWLED	IFY THAT THE INFORMATION GE AND BELIEF.	ABOVE IS TRUE AND COMPLETE TO THE BEST
DATE 11/30/95		
SIGNATURE 7772	ha Jalit PRINTED AND TITL	



OFF: (505) 325-8786

November 7, 1995

LAB: (505) 325-5667

Mike Tabet UNOCAL P.O. Box 850 Bloomfield, NM.

RE: Landfarm Closure of Phase I (1994 Operations) on the Rincon Lease

Mr. Tabet,

On Wednesday the November 26, 1995 landfarms constructed in 1994 were sampled. Five point composite samples were taken and analyzed using EPA Method 8015 for TPH (Total Petroleum Hydrocarbons). Laboratory results for the sampling are included with this report. Soils were checked using a PID (Photoinozation Detector) for organic vapor. All landfarms constructed in 1994 were nondetect for organic vapors. The following is a list of landfarms sampled during this sampling event.

Rincon 150, Rincon 123, Rincon 99, Rincon 99A, Rincon 29A Rincon 78, Rincon 253, Rincon 149,

This closes the landfarms constructed in the summer of 1994. If there are any questions concerning this information or the status of the 1995 landfarming event please call'Jon Little with On Site Technologies, Ltd.

Sincerely,

Jon Little

**Project Geologist** 

On Site Technologies, Ltd

file: 4-1188

OFF: (505) 325-8786 TECHNOLOGIES, LTD.

LAB: (505) 325-5667

### TOTAL PETROLEUM HYDROCARBONS

Attn:

Cindy Gray

Company: On Site Technologies, Ltd.

Address:

657 W. Maple

City, State: Farmington, NM 87401

LANDFARM

Project Name: **Project Location:**  Unocal Rincon Lease Rincon 29A

Sampled by: Analyzed by:

JL

DC

Type of Sample: Soil Date:

1-Nov-95

COC No.:

3612

Sample No.

8916

Job No.

4-1122

25-Oct-95 Time: 13:40 1-Nov-95

### Laboratory Analysis

Analyte		Result	Units of Measure	Detection Limit	Units of Measure
Gasoline Range (C5 - C9)		<5.0	mg/kg	5.0	mg/kg
Diesel Range (C10 - C28)		124.1	mg/kg	5.0	mg/kg
	TOTAL	124.1	mg/kg		

Date:

Date:

Quality Assurance Report

GRO QC No.:

0429-STD

DRO QC No.:

0430-STD

### Calibration Check

Analyte	Method Blank	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	< 1	ррт	1,351	1,406	4.1	15%
Diesel Range (C10 - C28)	< 5	ррт	2,000	2,143	7.1	15%

Matrix Spike

Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	89	111	(70-130)	16	20%
Diesel Range (C10-C28)	93	88	(70-130)	4	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: )a 4/
Date: 11/1/95

P. O. BOX 2606 • FARMINGTON, NM 87499

- Technology Blending Industry with the Environment -

# ON SITE TECHNOLOGIES, LTD.

TEST HOLE LOG and FIELD TESTING RESULTS

SAMPLER: MYKE \$ JON  METHOD:  TEST HOLE #   2, 3 LAB SAMPLE IDS  DEPTH SOIL TYPE PI.D. FIELD TPH SCREENING EPA 418.1  CLAYEY SAND  3' IZZ9 CL ON SUCCESSES  AFIER VAR TRUE  2269  CEANED (NT P)  Y'2 SAND. >2500 55 P(1) SAMP I AFIER TRUE  COMPAGE INF TAKEN OUT OF P(1) SAMP I AFIER TRUE  COMPAGE INF TAKEN OUT OF P(1) SAMP I AFIER TRUE  COMPAGE INF TAKEN OUT OF P(1) SAMP I AFIER TRUE	SITE LOC	ATION: RIDCOL	29A	CLIEN	T:
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DEPTH SOIL TYPE P.I.D. FIELD TPH SCREENING EPA 418.1  CLAYEV SAND  3'  1229  CLAYEV SAND  3'  72269  CLAYEV SAND  CLAYEV SAND  CLAYEV SAND  AFTER 7250					
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3' 1229  On on Suggrade AFIER VAR TRUE CERNOSO ONT PI  1/2'  SAND. >2500  Comparing TAKEN ONT OF PI(I) SAMP'S AFFER TEXT		SOIL TYPE	P.I.D. FIELD	TPH	
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(000) 320-0100 FMA (000) 321-1430

3005 NORTHRIDGE DRIVE, SUITE F P.O.BOX 2606 FARMINGTON, NEW MEXICO 87499



### AROMATIC VOLATILE ORGANICS

Attn:

Jon Little

Date:

9/24/94

Company: On site Technologies, Ltd.

Lab ID:

2130

Address: City, State: Farmington, NM 87401

657 W. Maple

Sample ID: Job No.

3211 4-1122

**Project Name:** 

Unocal Corporation / Pit Remediations

Date:

**Project Location:** 

Rincon 29A 1 1/2' Depth Dehy/Tank Pit

Time:

Sampled by: Analyzed by: JL

DLA Date: 9/23/94 9/24/94

Sample Matrix:

Soil

### Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
Benzene	1,228	0.2
Toluene	10,113	0.2
Ethylbenzene	1,036	0.2
m,p-Xylene	7,757	0.2
o-Xylene	2,015	0.2
	TOTAL 22,148 ug/kg	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:



### TOTAL PETROLEUM HYDROCARBONS

Attn:

Mike Tabet

Company: Unocal Corporation

Address:

P.O. Box 760

City, State: Moab, UT 84532

Date:

7/21/94

Lab ID: Sample No.

1668 2034

Job No.

4-1107

Project Name:

Unocal Corporation Pit Assessments

**Project Location:** Sampled by:

Rincon 29A; 3ft. Composite JL/ML

Date: Date:

7/19/94 Time:

7/20/94

NR

Analyzed by:

DC

Type of Sample:

Soil

### Laboratory Analysis

Laboratory		Total Petroleum
Identification	Sample Identification	Hydrocarbons
	Unocal Corporation Pit Assessments	
2034-1668	Rincon 29A; 3ft. Composite	17,200 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:



## TOTAL PETROLEUM HYDROCARBONS

Attn:

Jon Little

Company: On Site Technologies, Ltd.

657 W. Maple

Address:

City, State: Farmington, NM 87401

Unocal Corporation / Pit Remediations

**Project Location:** Sampled by:

Project Name:

JL DA

Rincon 29A 1 1/2' depth; Dehy/Tank Pit Date:

Date:

9/23/94 Time: 9/24/94

Date:

Lab ID:

Job No.

Sample No.

9/24/94

2130

3211

4-1122

Analyzed by: Type of Sample:

Soil

### Laboratory Analysis

Laboratory		Total Petroleum
Identification	Sample Identification	Hydrocarbons
	Unocal Corporation / Pit Remediations	
3211-2130	Rincon 29A 1 1/2' depth; Dehy/Tank Pit	19,750 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: Date:

FAX: (505) 327-1496 • 24 HR. - (505) 327-7105 • OFF.: (505) 325-8786 3005 NORTHRIDGE DRIVE - SUITE F - P. O. BOX 2606 - FARMINGTON, NEW MEXICO 87499

# CHAIN OF CUS, ODY RECORD

TECHNOLOGIES, LTD. V 657 W. Maple e. P. C.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Page

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