

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Box 1980, Hobbs, NM 88240

DISTRICT III

1000 P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

(Revised 39/94)

FEB 28 1997

PIT REMEDIATION AND CLOSURE REPORT

Operator: UNOCAL Telephone: 801-686-7604

Address: P.O. Box 760 Moab, Utah 84532

Facility Or: Rincon Unit 238 CH

Well Name

Location: Unit or Qtr/Qtr Sec SW/NE Sec 22 T 27N R 7W County Rio Arriba

Pit Type: Separator X Deyhydrator Other

Land Type: BLM X State Fee Other

Pit Location: Pit dimensions: Length 12' width 13' depth 3'  
(Attach diagram)

Reference: well head Other P&A MARKER

Footage from reference: 30'

Direction from reference: 30 Degrees X East of North X  
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) 0

Wellhead Protection Area:

(Less than 200 feet from a private  
domestic water source, or; less than  
1000 feet from all 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) 10

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 08/07/95

Date completed: 08/07/95

Remediation Method: Excavation ☒

Approx. cubic yards 80

(Check all appropriate sections)

Landfarmed ☒

Insitu Bioramediaiton

Other

Remediation Location: Onsite ☒

Offsite

(ie. landfarmed onsite, name and location of offsite facility)

Rincon Unit 136E NW/NW Sec 23 T27N R7W

General Description of Remedial Action: Contaminated soil was removed to a depth of 6' where rock was encountered. Clean soil was re-filled into the pit. Contaminated soil was landfarmed on Rincon Unit 136E DK location.

A PIT CLOSURE APPROVAL IS REQUESTED based on the attached test results from the landfarm.

Landfarm test results. TPH = 62.2 mg/kg BTEX = 51.0 ug/mg - See attached report.

Ground Water Encountered: No ☒ Yes Depth

Final Pit: Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location Bottom of pit at 6' depth at sandstone.

Sample depth 6'

Sample date 08/07/95

Sample time

Sample Results

Benzene (ppm) .002

Total BTEX (ppm) 2.4855

Field headspace (ppm) >2500

TPH 347

Ground Water Sample: Yes No ☒ (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 11/08/96

SIGNATURE

*Mike Tabet*

PRINTED NAME  
AND TITLE

Mike Tabet  
Staff HES Coordinator

OFF: (505) 325-8786



LAB: (505) 325-5667

**TOTAL PETROLEUM HYDROCARBONS**

Attn: *Jon Little*  
Company: *On Site Technologies, Ltd.*  
Address: *657 W. Maple*  
City, State: *Farmington, NM 87401*

Date: *9-Aug-95*  
COC No.: *3227*  
Sample No. *7683*  
Job No. *4-1228*

Project Name: *Unocal Corporation*  
Project Location: *Rincon 238 Pit*  
Sampled by: *JL*  
Analyzed by: *DC*  
Type of Sample: *Soil*

Date: *7-Aug-95* Time: *13:00*  
Date: *9-Aug-95*

**Laboratory Analysis**

<b>Laboratory Identification</b>	<b>Sample Identification</b>	<b>Total Petroleum Hydrocarbons</b>
<i>7683-3227</i>	<i>Unocal Corporation Rincon 238 Pit</i>	<i>347 mg/kg</i>

**Method** - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:

*JGL*  
*8/9/95*

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

**AROMATIC VOLATILE ORGANICS**

Attn: *Jon Little*  
Company: *On Site Technologies, Ltd.*  
Address: *657 W. Maple*  
City, State: *Farmington, NM 87401*

Date: *9-Aug-95*  
COC No.: *3227*  
Sample No. *7683*  
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Project Name: *Unocal Corporation*  
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Sampled by: *JL*  
Analyzed by: *DC*  
Type of Sample: *Soil*

Date: *7-Aug-95* Time: *13:00*  
Date: *9-Aug-95*

**Aromatic Volatile Organics**

<b>Component</b>	<b>Measured Concentration ug/kg</b>	<b>Detection Limit Concentration ug/kg</b>
<i>Benzene</i>	<i>2.0</i>	<i>0.2</i>
<i>Toluene</i>	<i>185.5</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>188.2</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>1942.5</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>167.2</i>	<i>0.2</i>
	<i>TOTAL 2485.5 ug/kg</i>	

*ND - Not Detectable*

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

Approved by: *JaL*  
Date: *8/9/95*

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— TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT —

OFF: (505) 325-5667



LAB: (505) 325-1556

**TPH - Gasoline / Diesel Range Organics**

Attn: *Cindy Gray*  
 Company: *On Site Technologies, Ltd.*  
 Address: *612 E. Murray Drive*  
 City, State: *Farmington, NM 87401*

Date: *30-Jul-96*  
 COC No.: *4280*  
 Sample No. *11613*  
 Job No. *2-1000*

Project Name: ***Unocal Corporation - Rincon Unit 136E***Project Location: ***Landfarm; 12pt. Composite***Sampled by: *DA* Date: *25-Jul-96* Time: *12:51*Analyzed by: *DC* Date: *29-Jul-96*Sample Matrix: *Soil***Laboratory Analysis**

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	62.2	mg/kg	5.0	mg/kg
	TOTAL	62.2	mg/kg	

**Quality Assurance Report**GRO QC No.: *0467-STD*DRO QC No.: *0479-STD***Calibration Check**

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,350	1,440	6.6	15%
Diesel Range (C10 - C28)	<5.0	ppm	2,000	2,018	0.9	15%

**Matrix Spike**

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	102	109	(70-130)	5	20%
Diesel Range (C10-C28)	109	99	(70-130)	7	20%

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

Approved by: *[Signature]*  
 Date: *7/30/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

### AROMATIC VOLATILE ORGANICS

Attn: *Cindy Gray*  
Company: *On Site Technologies, Ltd.*  
Address: *612 E. Murray Drive*  
City, State: *Farmington, NM 87401*

Date: 30-Jul-96  
COC No.: 4280  
Sample No. 11613  
Job No. 2-1000

Project Name: *Unocal Corporation - Rincon Unit 136E*

Project Location: *Landfarm; 12pt. Composite*

Sampled by: DA Date: 25-Jul-96 Time: 12:51

Analyzed by: DC Date: 26-Jul-96

Sample Matrix: *Soil*

### Laboratory Analysis

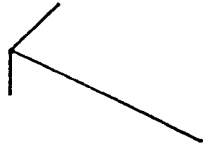
Parameter	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	0.5	ug/kg	0.2	ug/kg
<i>Toluene</i>	4.5	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	7.3	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	30.3	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	8.4	ug/kg	0.2	ug/kg
	<i>TOTAL</i>	51.0		ug/kg

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

Approved by: *[Signature]*  
Date: 7/30/96

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



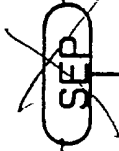
N

WELL IS FIELD  
NO EQUIPMENT ON  
LOCATION



GAS WELL

20'

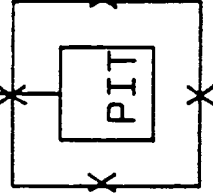


28'



FENCE POSTS &  
WIRE STILL ON  
LOCATION

dry



REMARKS

RINCON UNIT # 238 CH  
SW/NE SEC 22 T27NR7W NMPM  
METER NO. 93898  
DATE: 05/30/89  
SF-079360

11111111

Unocal Phase II

8-7-95

Pit Remediation

12:00

Rincon 238

12:10

Start Excavation using 3 cu yard front end loader -

13:00 Sample taken @ 6' deep at shale-siltstone interface

1 - 4oz jar sample taken

1 baggy for PID Reading

PID Reading > 2500 units  
RF 1.0

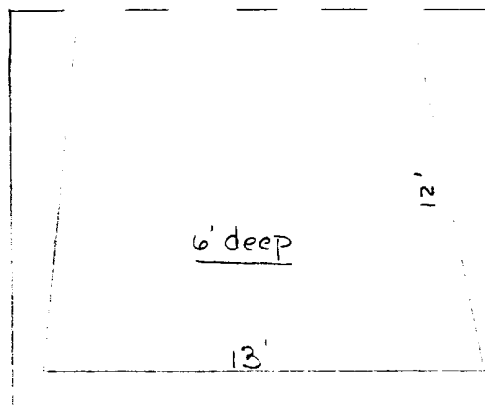
Ramp

P/A marker

North

80 cu yards

{ includes material for  
RAMP. }



Sample collected with front end loader in bottom of pit. Sample

Composited off bucket of front end loader -

Complete excavation on 8-7-95

22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS

