

DISTRICT I

P.O. Box 980, Hobbs, NM 88240

DISTRICT II

P.O. Box 980, Aztec, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

FEB 28 1997

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 39/54)

# PIT REMEDIATION AND CLOSURE REPORT

Operator: UNOCAL

Telephone: 801-686-7604

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

Facility Or: Rincon Unit 100 MV

Well Name

Location: Unit or Qtr/Qtr Sec NE/NE Sec 26 T 27N R 6W County Rio Arriba

Pit Type: Separator  Deyhydrator  Other Dehydrator/Tank

Land Type: BLM  State  Fee  Other

Pit Location:  
(Attach diagram)

Pit dimensions: Length 25', width 23', depth 3'

Reference: well head  Other Dehydrator

Footage from reference: 20'

Direction from reference: 90 Degerees X East of North X  
West of 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)

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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) : 0

Date Remediation Started: 08/07/95 Date completed: 08/07/95

Remediation Method: Excavation X Approx. cubic yards 265  
(Check all appropriate sections) Landfarmed X Insitu Bioramediaiton \_\_\_\_\_  
Other \_\_\_\_\_

Remediation Location: Onsite X Offsite \_\_\_\_\_  
(ie. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Contaminated soil was removed to a depth of 12' where rock was encountered. Clean soil was re-filled into the pits. A double walled steel tank with leak detection was installed.

The contaminated soil was landfarmed on the Rincon Unit 100 MV location.

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

TPH = 6.9 mg/kg BTEX = 27.2 ug/mg - See attached report.

Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location Bottom of pit

Closure Sampling: \_\_\_\_\_  
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 12'

Sample date 08/08/95 Sample time \_\_\_\_\_

Sample Results

Benzene (ppm) .2236

Total BTEX (ppm) 58.4908

Field headspace (ppm) >2500

TPH 1,724 mg/kg

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 10/31/96

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.: *3231*  
 Sample No. *7703*  
 Job No. *2-1000 4-1228*

Project Name: *Unocal Corporation*  
 Project Location: *Rincon 100 Pit*  
 Sampled by: *JL* Date: *8-Aug-95* Time:  
 Analyzed by: *DC* Date: *9-Aug-95*  
 Type of Sample: *Soil*

**Laboratory Analysis**

<b>Laboratory Identification</b>	<b>Sample Identification</b>	<b>Total Petroleum Hydrocarbons</b>
<i>7703-3231</i>	<i>Unocal Corporation Rincon 100 Pit</i>	<i>1,724 mg/kg</i>

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

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

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OFF: (505) 325-8786

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**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.: *3231*  
Sample No. *7703*  
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Project Name: *Unocal Corporation*  
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Sampled by: *JL* Date: *8-Aug-95* Time:  
Analyzed by: *DC* Date: *9-Aug-95*  
Type of Sample: *Soil*

**Aromatic Volatile Organics**

<b>Component</b>	<b>Measured Concentration ug/kg</b>	<b>Detection Limit Concentration ug/kg</b>
<i>Benzene</i>	<i>223.6</i>	<i>0.2</i>
<i>Toluene</i>	<i>4387.2</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>5161.3</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>39460.7</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>9258.0</i>	<i>0.2</i>
	<i>TOTAL 58490.8 ug/kg</i>	

*ND - Not Detectable*

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

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

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LAB: (505) 325-5667

**TPH - Gasoline / Diesel Range Organics**

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

Date: 13-May-96  
 COC No.: 4089  
 Sample No. 10875  
 Job No. 4-1228

Project Name: *Unocal - Rincon #100 LAND FARM*  
 Project Location: *6pt. Composite*  
 Sampled by: DA/CB  
 Analyzed by: DC Date: 10-May-96 Time: 11:10  
 Sample Matrix: *Soil* Date: 13-May-96

**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)	6.9	mg/kg	5.0	mg/kg
TOTAL	6.9	mg/kg		

**Quality Assurance Report**

GRO QC No.: 0461-STD  
 DRO QC No.: 0475-STD

**Calibration Check**

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	< 50	ppb	1,351	1,179	12.8	15%
Diesel Range (C10 - C28)	< 5.0	ppm	2,000	1,974	1.3	15%

**Matrix Spike**

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	79	78	(70-130)	2	20%
Diesel Range (C10-C28)	96	96	(70-130)	1	20%

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

Approved by: *[Signature]*  
 Date: *5/13/96*

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 Sampled by: DA/CB  
 Analyzed by: DC  
 Sample Matrix: *Soil*

Date: 10-May-96 Time: 11:10  
 Date: 13-May-96

#### Aromatic Volatile Organics

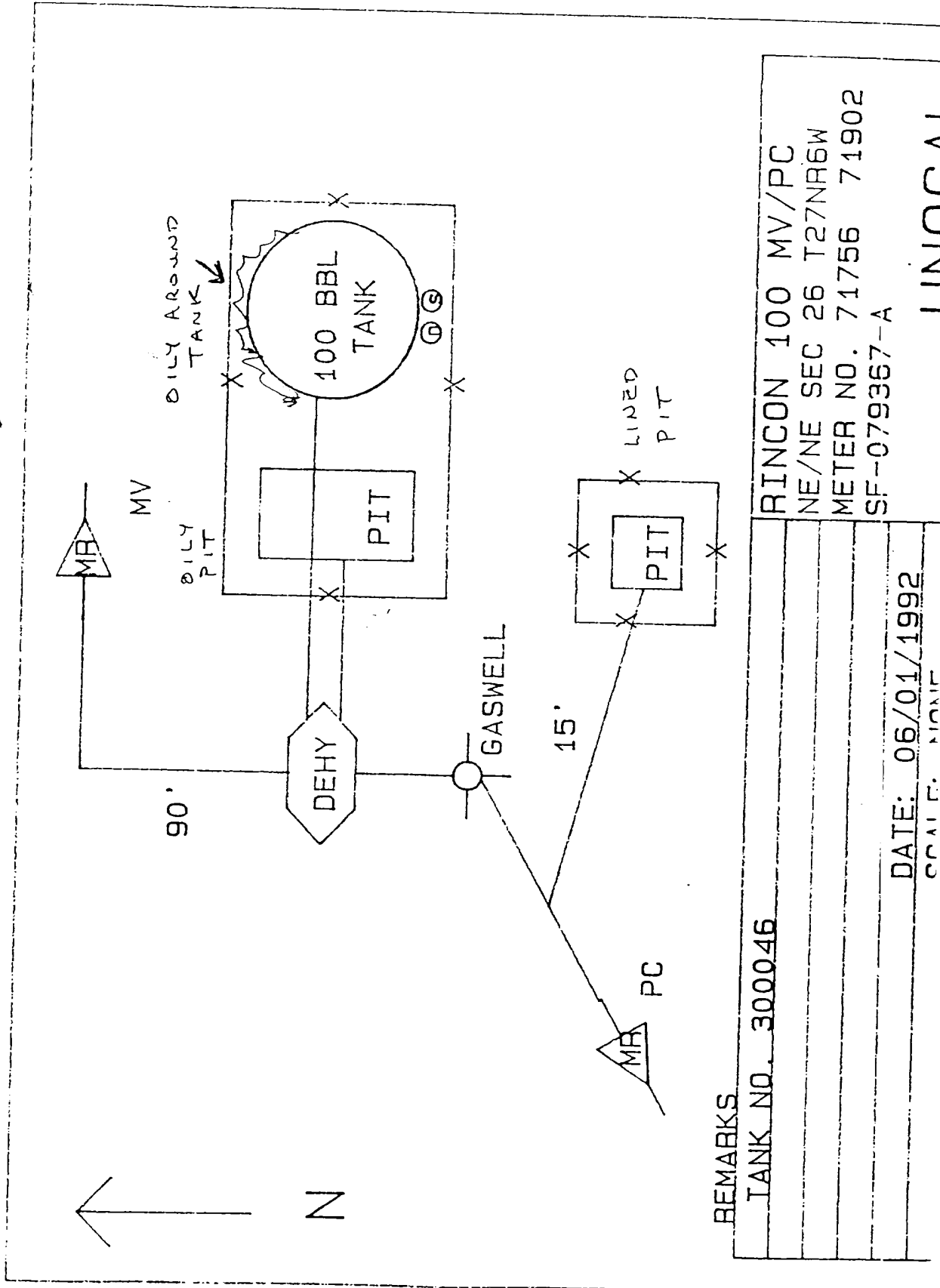
Component	Result	Units of Measure	Detection Limit	Units of Measure
<i>Benzene</i>	0.6	ug/kg	0.2	ug/kg
<i>Toluene</i>	0.8	ug/kg	0.2	ug/kg
<i>Ethylbenzene</i>	1.6	ug/kg	0.2	ug/kg
<i>m,p-Xylene</i>	4.3	ug/kg	0.2	ug/kg
<i>o-Xylene</i>	19.9	ug/kg	0.2	ug/kg
	<b>TOTAL</b>	27.2		ug/kg

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

Approved by: *DA*  
 Date: *5/13/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



**REMARKS**

TANK NO. 300046

RINCON 100 MV/PC  
 NE/NE SEC 26 T27NR6W  
 METER NO. 71756 71902  
 SF-079367-A

DATE: 06/01/1992  
 CREAT: NICKIE

11111111

Unocal PHASE III

8-7-95

Pit Remediation

15:01

Rincon 100

8-7 Start Excavation at 15:10 Stopped work 18:10

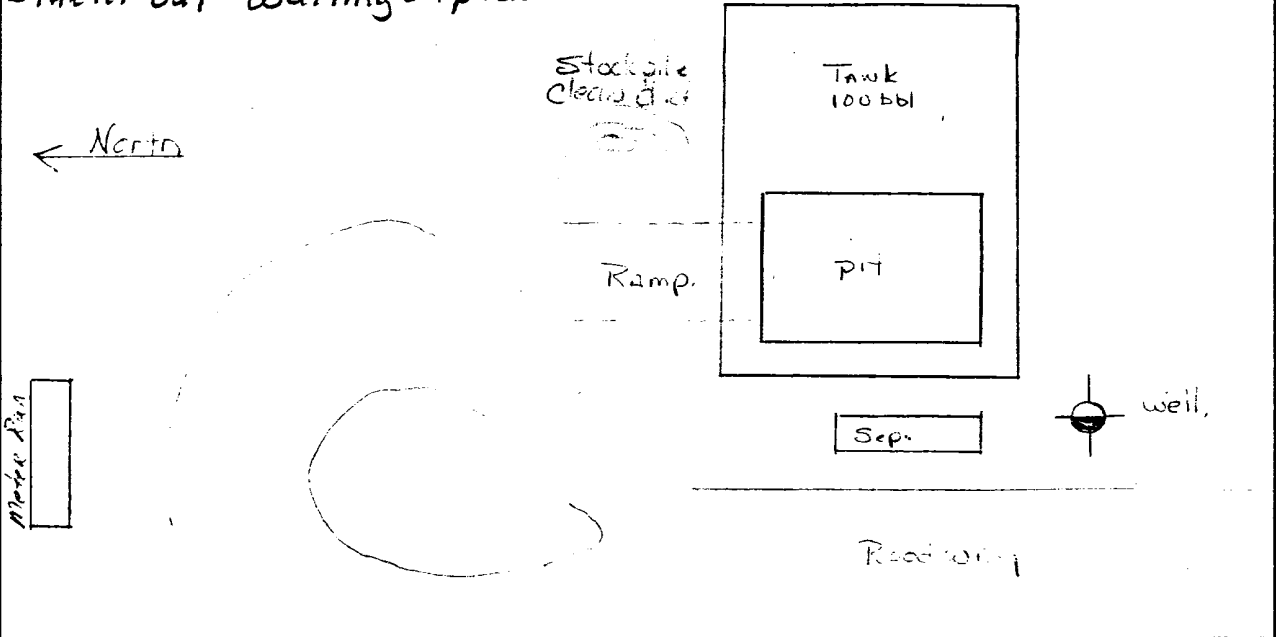
8-8 " " at 8:30

Clear fence and misc piping off pit area prior to excavation 14:00

front end loader broke down (2 hrs)

Starter out - waiting on parts -

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



Excavation size 25' x 24' x 12' = 256 yd<sup>3</sup> material excavated.

PID Reading from Composite Sample > 2500 units  
(RF 1.0) - Sample out of front end loader bucket -