

DISTRICT I *Henry S. Frost*  
P.O. Box 1960, Hobbs, NM 88240  
DISTRICT II **UTILITY OIL & GAS INSPECTOR**  
P.O. Drawer DD, Artesia, NM 88210  
DISTRICT III **FEB 2 8 1997**  
1000 Rio Brazos Rd., Aztec, NM 87410

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)

# PIT REMEDIATION AND CLOSURE REPORT

Operator: UNOCAL Telephone: '801-686-7604

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

**Facility Or : Rincon Unit 98 MV**

Well Name

Location: Unit or Qtr/Qtr Sec NE/NE Sec21 T 27N R 6W County Rio Arriba

Pit Type: Separator \_\_\_\_\_ Deyhydrator \_\_\_\_\_ Other \_\_\_\_\_ Tank \_\_\_\_\_

Land Type: ☒ BLM ☐ State ☐ Fee ☐ Other

Pit Location:  
(Attach diagram)

Pit dimensions: Length 27', width 28', depth 4'

Reference: well head \_\_\_\_\_, Other Tank \_\_\_\_\_

Footage from reference: 15'

Direction from reference: 0 Degrees 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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DIST. 3

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: 08/14/95 Date completed: 08/14/95

Remediation Method: Excavation ☒ Approx. cubic yards 270  
(Check all appropriate sections) Landfarmed ☒ Insitu Bioramediaiton \_\_\_\_\_  
Other \_\_\_\_\_

Remediation Location: Onsite ☒ Offsite \_\_\_\_\_  
(ie. landfarmed onsite, name and location of offsite facility) Rincon Unit 180 Sec 21 T27N R6W

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 180 DK location.

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

Landfarm test results. TPH = 53.4 mg/kg BTEX = 67.3 ug/mg – See attached report.

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

Final Pit: Closure Sampling: Sample location Bottom of pit at 12' depth at sandstone.  
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 12'

Sample date 08/14/95 Sample time \_\_\_\_\_

Sample Results

Benzene (ppm) 4.054

Total BTEX (ppm) 311.73

Field headspace (ppm) Not taken

TPH 4529

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 11/05/96

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: 16-Aug-95  
COC No.: 3241  
Sample No. 7768  
Job No. 4-1228

Project Name: ***Unocal Corporation***  
Project Location: ***Rincon 98 12 1/2' depth - Center of Pit***  
Sampled by: JL Date: 14-Aug-95 Time: 16:05  
Analyzed by: GB Date: 15-Aug-95  
Type of Sample: *Soil*

**Laboratory Analysis**

<b>Laboratory Identification</b>	<b>Sample Identification</b>	<b>Total Petroleum Hydrocarbons</b>
7768-3241	<i>Unocal Corporation</i> <i>Rincon 98 12 1/2' depth - Center of Pit</i>	4,529 mg/kg

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

Approved by: *Daly*  
Date: *8/16/95*

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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: *17-Aug-95*  
COC No.: *3241*  
Sample No. *7768*  
Job No. *4-1228*

Project Name: *Unocal Corporation*  
Project Location: *Rincon 98 12 1/2' Deep Center of Pit*  
Sampled by: *JL* Date: *14-Aug-95* Time: *16:05*  
Analyzed by: *GB* Date: *16-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>4054.8</i>	<i>0.2</i>
<i>Toluene</i>	<i>88492.6</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>19953.2</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>162635.7</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>36596.5</i>	<i>0.2</i>
<i>TOTAL 311732.8 ug/kg</i>		

*ND - Not Detectable*

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

Approved by: *Day*  
Date: *8/17/95*

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OFF: (505) 325-8786



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. 10877  
Job No. 4-1228

Project Name: Unocal - Rincon #180 LAND FARM  
Project Location: 10pt. Composite  
Sampled by: DA/CB Date: 10-May-96 Time: 12:40  
Analyzed by: DC Date: 13-May-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)	53.4	mg/kg	5.0	mg/kg
	TOTAL	53.4		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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

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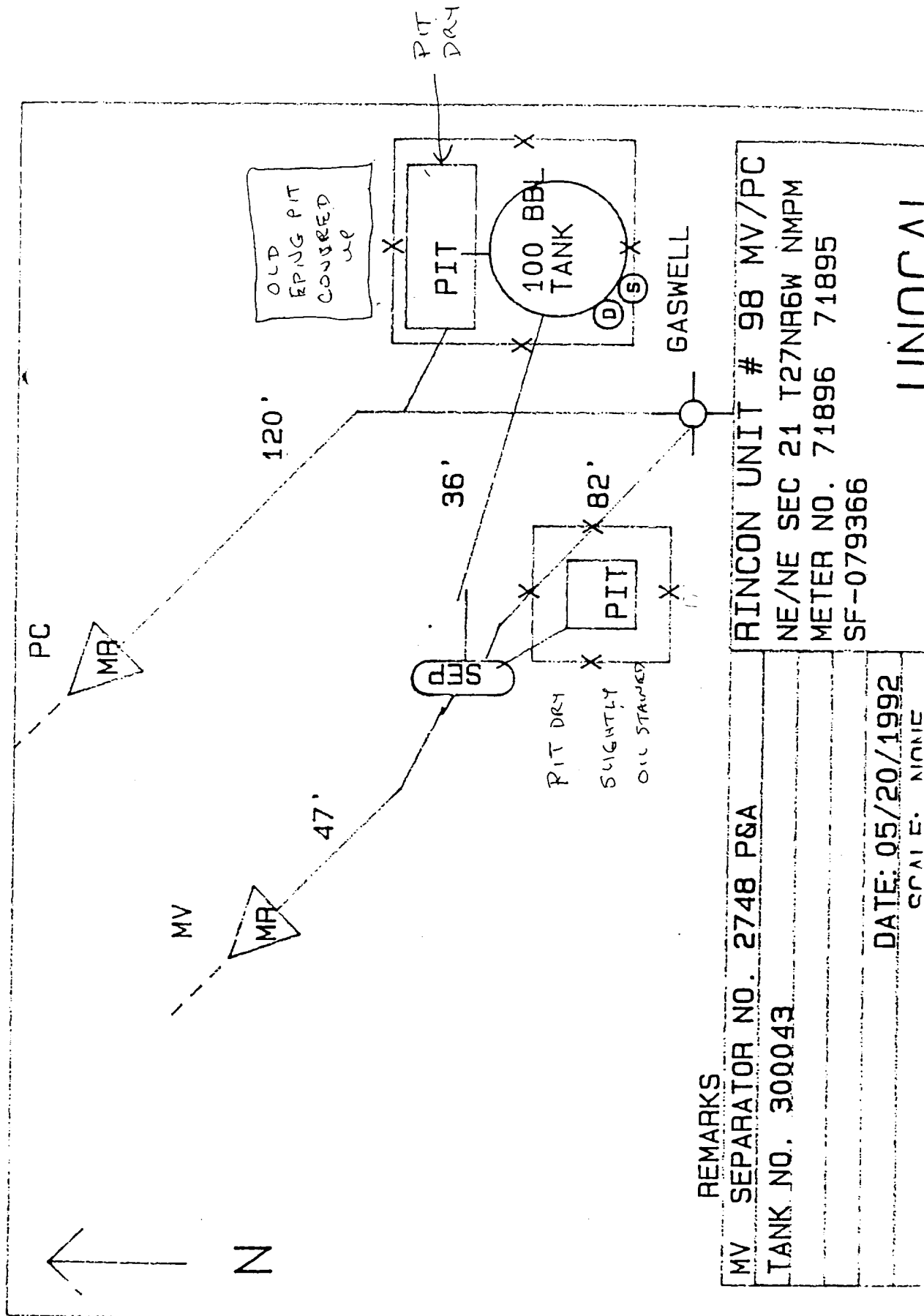
Aromatic Volatile Organics

Component	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	0.9	ug/kg	0.2	ug/kg
Toluene	5.0	ug/kg	0.2	ug/kg
Ethylbenzene	8.4	ug/kg	0.2	ug/kg
m,p-Xylene	34.5	ug/kg	0.2	ug/kg
o-Xylene	18.5	ug/kg	0.2	ug/kg
	TOTAL	67.3	ug/kg	

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

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



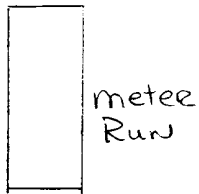
REMARKS

MV SEPARATOR NO. 2748 P&A	RINCON UNIT # 98 MV/PC
TANK NO. 300043	NE/NE SEC 21 T27NR6W NMPM
	METER NO. 71896 71895
	SF-079366

DATE: 05/20/1992
SCALE: NONE

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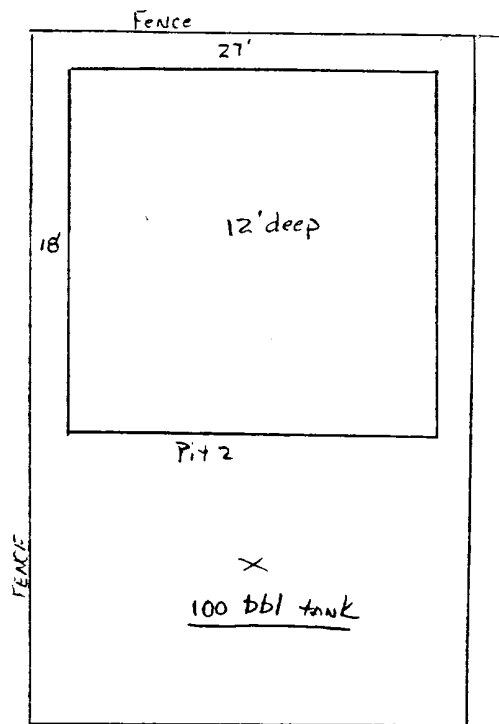
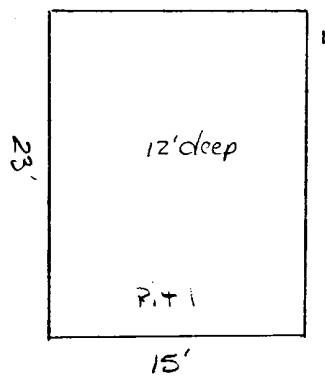
Rincon 98



PID Reading = 343 ?



Comp.  
Side wall sample taken @ 8' along North wall.



Completed excavating pit @ 11:45  
Excavated pit dimension 23' x 15' x 12'

Rock at 12' depth

Landform material on Rincon 180

PID Reading 349 ppm — bad Reading?  
Thermo Environmental Instruments  
— Reading is very low —

Sep Pit  
Pit 1 191 cu yards

Tank Pit  
Pit 2 - 270 cu yards

Steps for setting tanks per location

1/2 to return to Rincon 180 and excavate East side of metal pit.

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

