

District I  
P.O. Box 1980, Hobbs, NM

District II  
P.O. Drawer DD, Artesia, NM 88211

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE  
DEPUTY OIL & GAS INSPECTOR  
(Revised 3/9/94)

DEC 11 5 1995

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: Unocal North American Telephone: (505) 632-1811

Address: P.O. Box 850, Bloomfield, NM 87413

Facility Or: Rincon 134

Well Name

Location: Unit or Qtr/Qtr Sec "B" Sec 12 T 26 N R 7 W County Rio Arriba

Pit Type: Separator      Dehydrator      other Tank

Land Type: BLM X, State     , Fee     , Other     

Pit Location: Pit dimensions: length 20', width 20', depth 3-4'

(Attach diagram)

Reference: wellhead X, other     

Footage from reference:     

Direction from reference:      Degrees 35' East North 25'  
of  
     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) <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)

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DIST. 3

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	(20 points)
200 feet to 1000 feet	(10 points)
Greater than 1000 feet	(0 points) <u>10</u>

RANKING SCORE (TOTAL POINTS): 10

## Reverse Page for Pit Closure Report

Unocal Rincon 134: Tank

Date Remediation Started: 08/04/94 Date Completed: 08/04/94

Remediation Method: Excavation X Approx. cubic yards 650  
(Check all appropriate sections) Landfarmed X Insitu Bioremediation \_\_\_\_\_  
other \_\_\_\_\_

Remediation Location: Onsite \_\_\_\_\_ Offsite Rincon 57E, Unit O, Sec. 01, T26N, R7W  
(ie. landfarmed onsite, name and location of offsite facility) Rio Arriba County

## General Description Of Remedial Action: \_\_\_\_\_

Excavate contaminated soils in immediate area of prior unlined pit using a backhoe or similar equipment. Excavated to soils below closure standards, edge of equipment and/or bedrock refusal. Spoil material thin spread for landfarm treatment. Closure samples taken and tested by PID, TPH and/or BTEX. Excavations backfilled with clean soil. Backfilled and crowned.

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

## Final Pit:

Sample location See Attached Diagram

## Closure Sampling:

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

Final samples @ Bedrock (shale/sandstone)sample depth 16'sample date 08/04/94 sample time \_\_\_\_\_

## Sample Results

Benzene (ppm) 0.08 (76 ppB)Total BTEX (ppm) 5.1 (5,140 ppB)Field headspace (ppm) 101->2500TPH 1091 mg/kgGround 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 9-8-94SIGNATURE Mike Tabet

PRINTED NAME  
AND TITLE

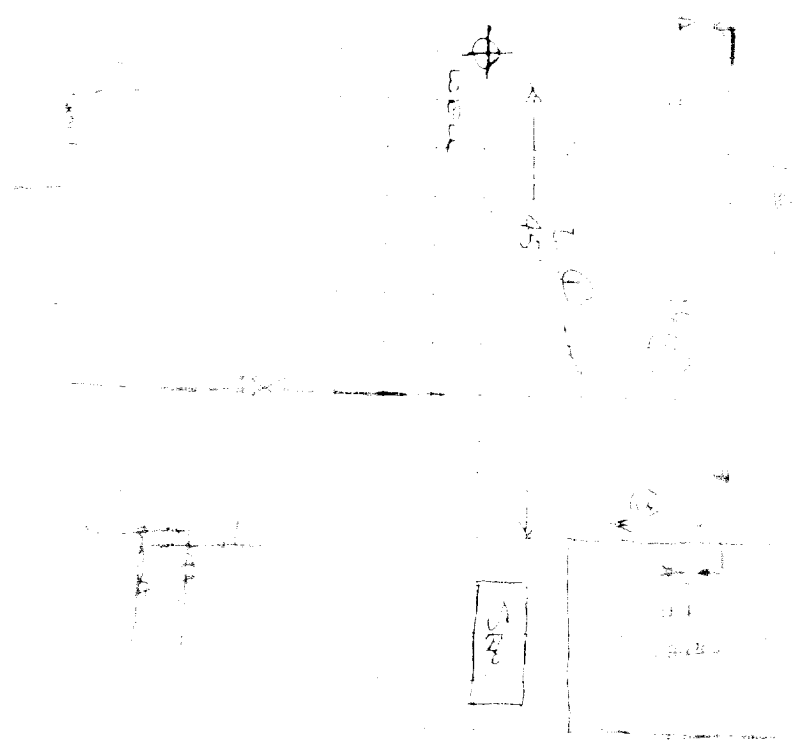
Mike Tabet  
HES Coordinator

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TPA  
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**TOTAL PETROLEUM HYDROCARBONS**

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

Date: *8/8/94*  
Lab ID: *FIELD*  
Sample No.  
Job No. *4-1111*

Project Name: *Unocal Corporation / Pit Remediations - Closure*  
Project Location: *Rincon 134 - Comp. @ 16'*  
Sampled by: *ML* Date: *8/4/94* Time: *NA*  
Analyzed by: *ML* Date: *8/4/94*  
Type of Sample: *Soil*

**Laboratory Analysis**

| <b>Laboratory Identification</b> | <b>Sample Identification</b>  | <b>Total Petroleum Hydrocarbons</b> |
|----------------------------------|---|-------------------------------------|
| <i>FIELD</i>                     | <i>Unocal Corporation / Pit Remediations - Closure</i><br><i>Rincon 134 - Comp. @ 16'</i> | <i>1,091 mg/kg</i>                  |

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

Approved by: *[Signature]*

Date: *8/16/94*



**AROMATIC VOLATILE ORGANICS**

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

Date: *8/5/94*  
Lab ID: *1741*  
Sample ID: *2354*  
Job No. *4-1111*

Project Name: *Unocal - Closure Samples for Pite Remediations*  
Project Location: *Rincon 134 Tk Pit @ 16'*  
Sampled by: *ML* Date: *8/4/94*  
Analyzed by: *DLA* Date: *8/5/94*  
Sample Matrix: *Soil*

Time: *14:45*

**Aromatic Volatile Organics**

| <b>Component</b>    | <b>**Measured<br/>Concentration ug/kg</b> |
|---------------------|---|
| <i>Benzene</i>      | <i>76</i>                                 |
| <i>Toluene</i>      | <i>62</i>                                 |
| <i>Ethylbenzene</i> | <i>532</i>                                |
| <i>m,p-Xylene</i>   | <i>3,836</i>                              |
| <i>o-Xylene</i>     | <i>632</i>                                |
|                     | <b>TOTAL <i>5,140 ug/kg</i></b>           |

*ND - Not Detectable*

*\*\* - Method Detection Limit, 2 ug/kg*

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

Approved by:

Date:

*Jan G*  
*8/16/94*



# ON SITE TECHNOLOGIES, LTD.

## QUALITY ASSURANCE REPORT for EPA Method 8020

Date Analyzed: 8/5/94

Internal QC No.: 0222-STD

Surrogate QC No.: 0223-STD

Reference Standard QC No.: 0355-STD

### Method Blank

| Analytes in Blank                       | Amount |
|---|--------|
| Average Amount of All Analytes In Blank | <1 ppb |

### Calibration Check

| Calibration Standards | Units of Measure | *True Value | Analyzed Value | % Diff | Limit |
|-----------------------|------------------|-------------|----------------|--------|-------|
| Benzene               | ppb              | 20          | 19             | 5      | 15%   |
| Toluene               | ppb              | 20          | 19             | 5      | 15%   |
| Ethylbenzene          | ppb              | 20          | 19             | 5      | 15%   |
| m,p-Xylene            | ppb              | 40          | 38             | 6      | 15%   |
| o-Xylene              | ppb              | 20          | 20             | 2      | 15%   |

### Spike Results

| Analyte      | 1- Percent Recovered | 2 - Percent Recovered | Limit    | %RSD | Limit |
|--------------|----------------------|-----------------------|----------|------|-------|
| Benzene      | 94                   | 100                   | (39-150) | 4    | 20%   |
| Toluene      | 92                   | 96                    | (46-148) | 3    | 20%   |
| Ethylbenzene | 95                   | 97                    | (32-160) | 2    | 20%   |
| m,p-Xylene   | 98                   | 100                   | (35-145) | 1    | 20%   |
| o-Xylene     | 98                   | 97                    | (35-145) | 1    | 20%   |

### Surrogate Recoveries

| Laboratory Identification | S1 Percent Recovered | S2 Percent Recovered | S3 Percent Recovered |
|---------------------------|----------------------|----------------------|----------------------|
| Limits                    | (70-130)             |                      |                      |
| 2353-1741                 | 99                   |                      |                      |
|                           |                      |                      |                      |
|                           |                      |                      |                      |
|                           |                      |                      |                      |
|                           |                      |                      |                      |
|                           |                      |                      |                      |
|                           |                      |                      |                      |
|                           |                      |                      |                      |
|                           |                      |                      |                      |

S1: Fluorobenzene