

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

Denny E. Faint
DEPUTY OIL & GAS INSPECTOR
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

SEP 11 0 1996

(Revised 3/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: UNOCAL Telephone: 801-686-7604

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

Facility Or: Rincon Unit 170M Mesa Verde
Well Name

Location: Unit or Qtr/Qtr Sec I Sec20 T 27N R 6W County Rio Arriba

Pit Type: Separator Deyhdrator X Other

Land Type: BLM X State Fee Other

Pit Location: Pit dimensions: Length 18' width 15' depth 6.5'
(Attach diagram)

Reference: well head X Other

Footage from reference: 120'

Direction from reference: 125 Degerees X East North X
West of South

Depth To Ground Water: Less than 50 feet (20 points)
(Vertical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal Greater than 100 feet (0 points) 0
high water elevation of
ground water)

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a priavate No (0 points) 0
domestic water source, or; less than
1000 feet from all water sources)

Distance To Surface Water: Less than 200 feet (20 points)
(Horizontal distance to perennial 200 feet to 1000 feet (10 points)
lakes, ponds, rivers, streams, creeks. Greater than 1000 feet (0 points) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

RECEIVED
DEC 2 0 1995
OIL CON. DIV.
DIST. 3

Date Remediation Started: 08/11/94 Date completed: 08/11/94

Remediation Method: Excavation X Approx. cubic yards 70
(Check all appropriate sections) Landfarmed X Insitu Bioremediaiton
Other

Remediation Location: Onsite Offsite Rincon Unit 99A Mesa Verde
(ie. landfarmed onsite, name and location of offsite facility) E Sec 27 T27N R6W

General Description of Remedial Action: Excavated soil to a depth of 6.5'. Hit shale/rock. Refilled with clean soil. This pit was located outside the vulnerable area, however, Unocal no longer had need of this unlined pit due to commingly of zones.
The contaminated soil was landfarmed on the Rincon Unit 99A MV location.
A pit closure approval is requested based on the above actions and the Landfarm test results below.
TPH = 489.1 mg/kg BTEX = Non detect with PID for organic vapors.

Ground Water Encountered: No X Yes Depth

Final Pit: Closure Sampling: Sample location Final sample @ shale/rock bottom – 5.5'
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 5.5'
Sample date 08/11/94 Sample time
Sample Results
Benzene (ppm) .2
Total BTEX (ppm) 18.0
Field headspace (ppm) 77.2– >2500
TPH 750 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 11/30/95
SIGNATURE Mike Tabet PRINTED NAME Mike Tabet
AND TITLE Staff HES Coordinator

OFF: (505) 325-8786



LAB: (505) 325-5667

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

November 7, 1995

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 (Photoionization 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

P. O. BOX 2606 • FARMINGTON, NM 87499

— TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT —

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: Cindy Gray

Company: On Site Technologies, Ltd.

Address: 657 W. Maple

City, State: Farmington, NM 87401

Project Name: Unocal Rincon Lease

Project Location: Rincon 99A Rincon 170M

Sampled by: JL

Analyzed by: DC

Type of Sample: Soil

Date: 1-Nov-95

COC No.: 3612

Sample No. 8915

Job No. 4-1122

Date: 25-Oct-95 Time: 13:24

Date: 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)	489.1	mg/kg	5.0	mg/kg
	TOTAL	489.1		mg/kg

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	ppm	1,351	1,406	4.1	15%
Diesel Range (C10 - C28)	< 5	ppm	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: [Signature]
Date: 11/1/95

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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: *10/5/94*
Lab ID: *2175*
Sample No. *3437*
Job No. *4-1122*

Project Name: *Unocal*
Project Location: *Rincon 170M 6 1/2' depth at rock*
Sampled by: *JL* Date: *10/5/94* Time: *10:52*
Analyzed by: *DLA* Date: *10/5/94*
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
<i>3437-2175</i>	<i>Unocal Rincon 170M 6 1/2' depth at rock</i>	<i>26,100 mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:

[Signature]
10/5/94

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: 10/5/94
Lab ID: 2175
Sample ID: 3437
Job No. 4-1122

Project Name: Unocal
Project Location: Rincon 170M 6 1/2' depth at rock
Sampled by: JL Date: 10/5/94
Analyzed by: DLA Date: 10/5/94
Sample Matrix: Soil

Time: 10:52

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
Benzene	5,109	0.2
Toluene	32,085	0.2
Ethylbenzene	4,485	0.2
m,p-Xylene	31,835	0.2
o-Xylene	11,318	0.2
TOTAL 84,832 ug/kg		

ND - Not Detectable

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

Approved by: [Signature]
Date: 10/5/94

P. O. BOX 2606 • FARMINGTON, NM 87499
- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 10/5/94

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	<0.1 ppb

Calibration Check

Calibration Standards	Units of Measure	*True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20	20	2	15%
Toluene	ppb	20	19	3	15%
Ethylbenzene	ppb	20	18	8	15%
m,p-Xylene	ppb	40	37	8	15%
o-Xylene	ppb	20	18	10	15%

Spike Results

Analyte	1- Percent Recovered	2- Percent Recovered	Limit	%RSD	Limit
Benzene	37	38	(39-150)	2	20%
Toluene	36	36	(46-148)	0	20%
Ethylbenzene	37	37	(32-160)	0	20%
m,p-Xylene	38	38	(35-145)	1	20%
o-Xylene	37	38	(35-145)	2	20%

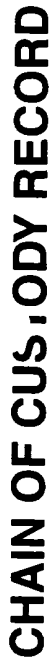
Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	S3 Percent Recovered
Limits	(70-130)		
3437-2175	104		

S1: Flourobenzene

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



Page _____ of _____

[illegible]