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

Henry E. Hunt
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 10 1996

(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 78 Mesa Verde
Well Name

Location: Unit or Qtr/Qtr Sec G Sec 14 T 27N R 7W County Rio Arriba

Pit Type: Separator ____ Deyhdrator ____ Other Dehydrator/tank

Land Type: BLM X, State ____, Fee ____, Other ____

Pit Location: (Attach diagram)

Pit dimensions: Length 15', width 24', depth 3-4'

Reference: well head ____, Other Meter House

Footage from reference: 25'

Direction from reference: 45 Degerees X East North X of West South ____

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	0
Wellhead Protection Area: (Less than 200 feet from a priavate domestic water source, or; less than 1000 feet from all water sources)	Yes No	(20 points) (0 points)	
Distance To Surface Water (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	10

RECEIVED
DEC 20 1995
OIL CON. DIV.
DIST. 3

RANKING SCORE (TOTAL POINTS) : 10

Date Remediation Started: 08/05/94 **Date completed:** 08/05/94

Remediation Method: (Check all appropriate sections)
Excavation X Approx. cubic yards 600
Landfarmed X Insitu Bioremediaiton ____
Other ____

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

General Description of Remedial Action: Excavated soil to a depth of 12'. Hit bedrock (shale). Refilled with clean soil. Installed double walled tank with leak detection.

TPH = 1172 mg/kg BTEX = 21.0 – shale bottom.

The contaminated soil was landfarmed on the Rincon Unit 78 MV location.

A pit closure approval is requested based on the above test results and the Landfarm test results below.

TPH = 107.9 mg/kg BTEX = Non detect with PID for organic vapors.

Ground Water Encountered: No X Yes ____ Depth ____

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

Sample location Final sample @ shale – 12'

Sample depth 12'

Sample date 08/05/95 Sample time 16:00

Sample Results

Benzene (ppm) .01

Total BTEX (ppm) 21.0

Field headspace (ppm) 2202–>2500

TPH 1172 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 11/29/95

SIGNATURE Mike Tabet PRINTED NAME AND TITLE Mike Tabet, Staff HES Coordinator

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

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 (Photoinozation 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

OFF: (505) 325-8786

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

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

Date: 1-Nov-95
COC No.: *3612*
Sample No. *8917*
Job No. *4-1122*

Project Name: ***Unocal Rincon Lease***
Project Location: ***Rincon 78***
Sampled by: JL LANDFARM Date: 25-Oct-95 Time: 14:28
Analyzed by: DC Date: 1-Nov-95
Type of Sample: *Soil*

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)	107.9	mg/kg	5.0	mg/kg
TOTAL	107.9	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

ON SITE TECHNOLOGIES, LTD.

TEST HOLE LOG and FIELD TESTING RESULTS

PROJECT: Unocal Pits JOB # 4-1026 DATE: 3-14-94

SITE LOCATION: Rincon 28 CLIENT:

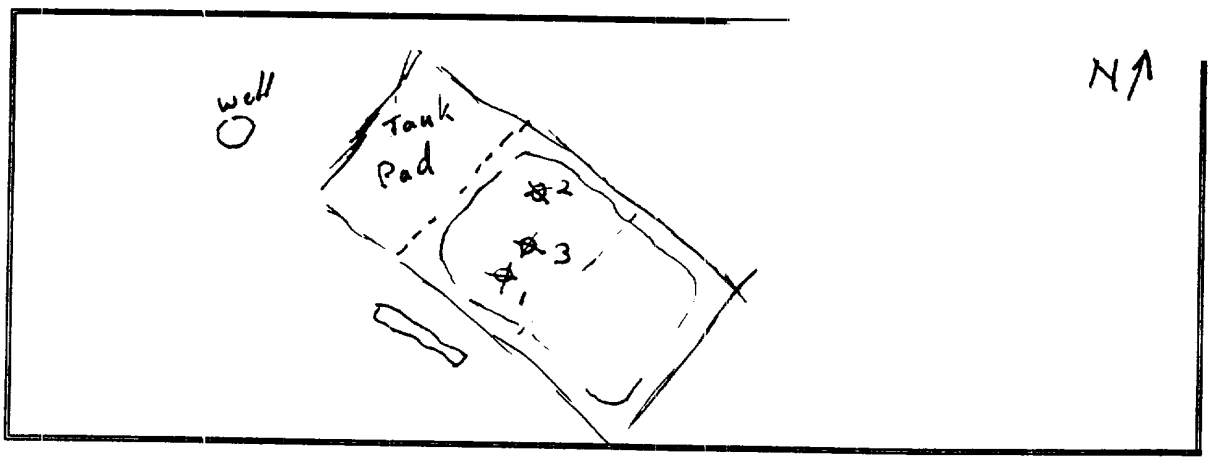
SAMPLER: Joe Little

METHOD: Hand Auger / Power Auger

TEST HOLE #: 1, 2, 3 LAB SAMPLE IDs 1211 - 1459

DEPTH	SOIL TYPE	P.I.D. FIELD SCREENING	TPH EPA 418.1	OTHER REMARKS
TH 1 3'	Clayey Sand	+2500ppm	N/A	
TH 2 3'	Clayey Sand	1999ppm	N/A	
TH 3 3'	Clayey sand	+2500ppm	TPH	
TH 3 9'	Clayey Sand	+2500ppm	N/A	
TH 3 12'	~~Sandy~~ Silty ~~Clay~~ Clay	+2500 ppm	N/A	

SITE SKETCH WEATHER APPROX.TEMP.



(505) 325-8786 FAX (505) 327-1496

3005 NORTHRIDGE DRIVE, SUITE F P.O.BOX 2606 FARMINGTON, NEW MEXICO 87499

ON SITE TECHNOLOGIES, LTD.

TOTAL PETROLEUM HYDROCARBONS

Attn: *Cindy Gray*
Company: *On Site Technologies*
Address: *3005 Northridge Drive, Ste.F*
City, State: *Farmington, NM 87401*

Date: 3/24/94
Lab ID: *1459*
Sample No.
Job No. *4-1076*

Project Name: ***Unocal / 24 Pit Site Assessment***
Project Location: ***Rincon***
Sampled by: JL Date: 3/14/94
Analyzed by: JL Date: 3/21/94
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	***Sample Identification***	***Total Petroleum Hydrocarbons***
1209-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 278***	515 *mg/kg*
1210-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 184***	8510 *mg/kg*
1211-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 78***	21321 *mg/kg*
1212-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 151 Tank Pit***	7788 *mg/kg*
1213-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 174M Tank Pit***	60 *mg/kg*
1214-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 174M Dehydrator Pit***	98 *mg/kg*
1215-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 134 Tank Pit***	31324 *mg/kg*
1216-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 57E Gallup Dehydrator Pit***	1519 *mg/kg*
1217-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 57E Dakota***	127 *mg/kg*
1218-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 57E Tank Pit***	1726 *mg/kg*
1219-1459	*Unocal / 24 Pit Site Assessment* ***Rincon 300***	3843 *mg/kg*

Method - *EPA Method 418.1 Total Petroleum Hydrocarbons*

Approved by:
Date: 3/24/94

FAX: (505) 327-1496 • 24 HR - (505) 327-7105 • OFF : (505) 325-8786
3005 NORTHRIDGE DRIVE • SUITE F • P O BOX 2606 • FARMINGTON, NEW MEXICO 87499

ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

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

Date: 8/8/94
Lab ID: *1758*
Sample ID: *2377*
Job No. *4-1111*

Project Name: ***Unocal Corporation / Pit Remediations***
Project Location: ***Rincon 78 @ Btm. Tk Pit***
Sampled by: ML Date: 8/5/94 Time: 16:00
Analyzed by: DLA Date: 8/8/94
Sample Matrix: *Soil*

Aromatic Volatile Organics

Component	****Measured Concentration ug/kg***
Benzene	*149*
Toluene	*3,326*
Ethylbenzene	*1,720*
m,p-Xylene	*15,411*
o-Xylene	*368*
	TOTAL 20,974 ug/kg

ND - Not Detectable
*** - Method Detection Limit, 2 ug/kg*

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

Approved by: Bill Vorhes, PhD.
Date: 8/9/94

FAX: (505) 327-1496 • 24 HR. – (505) 327-7105 • OFF.: (505) 325-8786
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ON SITE TECHNOLOGIES, LTD.

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 8/8/94

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	20	1	15%
Toluene	ppb	20	20	2	15%
Ethylbenzene	ppb	20	20	0	15%
m,p-Xylene	ppb	40	38	4	15%
o-Xylene	ppb	20	20	2	15%

Spike Results

Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	103	104	(39-150)	0	20%
Toluene	99	100	(46-148)	0	20%
Ethylbenzene	98	102	(32-160)	3	20%
m,p-Xylene	102	97	(35-145)	3	20%
o-Xylene	101	100	(35-145)	0	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	S3 Percent Recovered
Limits	(70-130)		
2377-1758	101		

S1: Flourobenzene

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UNOCAL
PIT CLOSURE 4-1111
RINCON 78
TK PIT
8/5/94
PIT LOCATED 25' ~~AT~~ 45°E OF METER HOUSE
CY: 600

OVM	(PPM)	
1 @ 6	2202	
2 @ 9'	>2500	
3 @ 9'	>2500	
4 @ 11'	>2500	
5 @ 11'	2390	
6 @ 13'	2395	SHALE
7 @ 13'	2411	"

TPH

M	V	D	R	TPH	
4.9	25	1:1	463	2362	1@6'
4.5	25	1:1	211	1172	@BTM