

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. Smith
DEPUTY OIL & GAS INSPECTOR
SUBMIT COPY TO
APPROPRIATE
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 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 99 Mesa Verde
Well Name

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

Pit Type: Separator Deyhdrator Other Dehydrator/Tank

Land Type: BLM X State Fee Other

Pit Location:
(Attach diagram)

Pit dimensions: Length 23', width 31', depth 5'

Reference: well head , Other Tank

Footage from reference: 15'

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

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 priavate
domestic water source, or; less than
1000 feet from all water sources)

Yes	(20 points)	
No	(0 points)	<u>0</u>

Distance To Surface Water:

(Horizontal distance to perennia:
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>0</u>

RANKING SCORE (TOTAL POINTS) : 0

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

Date Remediation Started: 09/26/94

Date completed: 09/26/94

Remediation Method: Excavation ☒

Approx. cubic yards 322

(Check all appropriate sections)

Landfarmed ☒

Insitu Bioramediaiton

Other

Remediation Location: Onsite ☒

Offsite

(ie. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Contaminated soil was excavated to a depth of 8.5 feet where TPH and BTEX readings were below closure requirements.

TPH = 290 mg/kg BTEX = 5.24 ppm

The contaminated soil was landfarmed on the Rincon Unit 99 MV location.

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

TPH = 13.4 mg/kg BTEX = Non-detect with PID for organic vapors.

Ground Water Encountered:

No ☒

Yes

Depth

Final Pit:

Closure Sampling:

(if multiple samples,

attach sample results

and diagram of sample

locations and depths)

Sample location Bottom of pit

Sample depth 8.5'

Sample date 09/26/94

Sample time 14:32

Sample Results

Benzene (ppm) .024

Total BTEX (ppm) 5.24

Field headspace (ppm) 1477

TPH 290 ppm

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 11/28/95

PRINTED NAME
AND TITLE

Mike Tabet
Staff HES Coordinator

SIGNATURE

ON SITE

TECHNOLOGIES, LTD.

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*

Date: *1-Nov-95*
COC No.: *3612*
Sample No. *8914*
Job No. *4-1122*

Project Name: *Unocal Rincon Lease*
Project Location: *Rincon 99*
Sampled by: *JL*
Analyzed by: *DC*
Type of Sample: *Soil*

Date: *25-Oct-95* Time: *13:13*
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)	13.4	mg/kg	5.0	mg/kg
	TOTAL	13.4		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:

Date: *11/1/95*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



TOTAL PETROLEUM HYDROCARBONS

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

Date: *9/27/94*
Lab ID: *2132*
Sample No. *3244*
Job No. *4-1122*

Project Name: *Unocal Corporation / Pit Remediations*
Project Location: *Rincon #99 Center of Old Pit @ 8 1/2'*
Sampled by: *JL* Date: *9/26/94* Time: *14:32*
Analyzed by: *DA* Date: *9/27/94*
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
<i>3244-2132</i>	<i>Unocal Corporation / Pit Remediations Rincon #99 Center of Old Pit @ 8 1/2'</i>	<i>290 mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*

Date: *9/26/94*



ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn: Jon Little
Company: On Site Technologies, Ltd.
Address: 657 W. Maple
City, State: Farmington, NM 87401

Date: 9/28/94
Lab ID: 2132
Sample ID: 3244
Job No. 4-1122

Project Name: Unocal Corporation / Pit Remediations
Project Location: Rincon #99 Center of Old Pit @ 8 1/2'
Sampled by: JLO Date: 9/26/94
Analyzed by: DLA Date: 9/27/94
Sample Matrix: Soil

Time: 14:32


Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
Benzene	24	0.2
Toluene	612	0.2
Ethylbenzene	439	0.2
m,p-Xylene	3,960	0.2
o-Xylene	206	0.2
TOTAL 5,242 ug/kg		

ND - Not Detectable

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

Approved by:
Date:


9/28/94

ON SITE TECHNOLOGIES, LTD.



QUALITY ASSURANCE REPORT for EPA Method 8020

Date Analyzed: 9/27/94

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	21	6	15%
Toluene	ppb	20	20	1	15%
Ethylbenzene	ppb	20	20	0	15%
m,p-Xylene	ppb	40	40	0	15%
o-Xylene	ppb	20	20	1	15%

Spike Results

Analyte	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	100	99	(39-150)	1	20%
Toluene	99	95	(46-148)	3	20%
Ethylbenzene	99	106	(32-160)	5	20%
m,p-Xylene	96	95	(35-145)	1	20%
o-Xylene	97	100	(35-145)	2	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	S3 Percent Recovered
Limits	(70-130)		
3244-2132	94		

S1: Fluorobenzene

ON SITE
TECHNOLOGIES, LTD.

Page . . . of

Authorized by: _____
(Client Signature Must Accompany Request)



ON SITE TECHNOLOGIES, LTD.

TOTAL PETROLEUM HYDROCARBONS

Attn: *Mike Tabet*
Company: *Unocal Corporation*
Address: *P.O. Box 760*
City, State: *Moab, UT 84532*

Date: *7/21/94*
Lab ID: *1668*
Sample No. *2028*
Job No. *4-1107*

Project Name: *Unocal Corporation Pit Assessments*
Project Location: *Rincon 99; 3ft. Composite*
Sampled by: *JL/ML* Date: *7/19/94* Time: *NR*
Analyzed by: *DC* Date: *7/20/94*
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
2028-1668	Unocal Corporation Pit Assessments Rincon 99; 3ft. Composite	35,100 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: 

Date: *7/21/94*

ON SITE TECHNOLOGIES, LTD.

TEST HOLE LOG and FIELD TESTING RESULTS

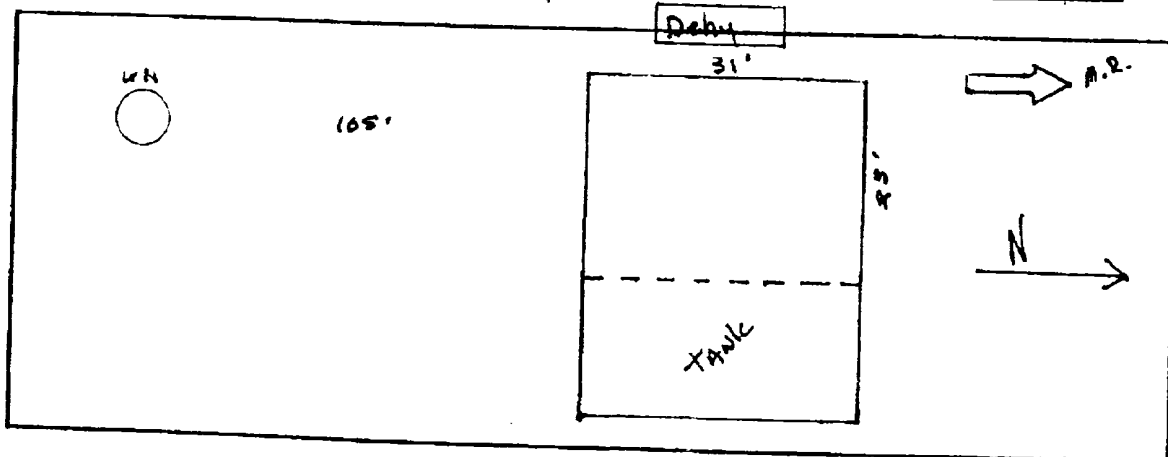
PROJECT: Unocal JOB # _____ DATE: 7-19-94SITE LOCATION: Rincon 99 CLIENT: _____SAMPLER: Mike & Jan

METHOD: _____

TEST HOLE # 1, 2, 3 LAB SAMPLE IDS _____

DEPTH	SOIL TYPE	P.I.D. FIELD SCREENING	TPH EPA 418.1	OTHER REMARKS
T ₁ 3'	f sandy soil	2500		6" oil in pit
T ₂ 3'	"	2500		1.
T ₃ 3'	"	2500		"

SITE SKETCH

WEATHER SunnyAPPROX. TEMP. 80°F

(505) 325-8786

FAX (505) 327-1496

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