1R - 277

GENERAL CORRESPONDENCE

YEAR(S):

1995-

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION
RECEIVED
'95 FEB 24 AM 8 52

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

NMOCD Inter-Correspondence

To: Bill Olson-Hydrogeologist Santa Fe Office

From: Wayne Price-Environmental Engineer District I

Date: February 22, 1995

Reference: Unocal Pit Closure S. Vacuum Unit-Buckeye NM
Unit I sec 35-18s-R35e

Subject: Request for Information

Comments:

Dear Bill,

Please find enclosed a copy of the file on the Unocal pit closure you requested. This pit was closed using a solidification process. At the end of the pit closure Unocal elected to install a temporary monitor well to ensure they have a clean closure. The monitor well was installed "down-dip" and just south of the pit area.

The water was sampled and the results are included in the file enclosed. Please refer to letter dated 2/9/95 (monitor well results). Please note that when Unocal drilled the monitor well they found soil contamination outside of the remediation area.

Their initial site assessment evidently missed this area. Unocal had a consultant on site for most of the project.

cc: Jerry Sexton-District I Supervisor

Attachments-1 (file)

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time ≈ [redacted]	Date 2/15/95

Originating Party	Other Parties
JIM MASON - MNOCAL	

Subject: PIT CLOSURE - 5 VAC UNIT Buckeye NM
UNIT I SEC 35-18S-R35E

Discussion: CALLED & INFORMED ME THAT THEY WILL BE ON SITE TO COMPLETE MONITOR WELL INSTALLATION FOR FUTURE USE.

Conclusions or Agreements

WILL CEMENT/3-5% BENTONITE AROUND 2" PVC PIPE TO SURFACE, WILL INSTALL PAD, WELL PROTECTOR PIPE & LOCK!

Distribution
cc: BILL OLSON
JERRY SEXTON

Signed

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

NMOCD Inter-Correspondence

To: Jerry Sexton-District I Supervisor

From: Wayne Price-Environmental Engineer District I

Date: February 9, 1995
10:00 am

Reference: Unocal Pit Closure South Vacuum Unit
Unit I-Sec 35-18s-R35e

Subject: Monitor well results-analysis attached

Comments:

Jim Mason with Unocal delivered the analytical results of the recent sampling events of the monitor well. After reviewing the results it appears that NM ground water standards have been exceeded, therefore I recommended that Mr. Mason contact Roger Anderson and notify him of the situation.

It appears the chlorides and TDS exceeded the standards. Also, there still appears to be a contaminated area just south of the pit where the monitor well was installed. Soil borings taken at 37-38 feet below surface in this area indicates a TPH level of 4926 ppm and at 50-51 feet it is 1,785 ppm. The top of the water table is approximately 58 feet below surface.

This area apparently was missed during the excavation. It is not known at this time the extent or magnitude of the remaining soil and ground water contamination.

Please note Unocal has initiated all of the remediation activities as of to date, and has been doing an excellent job. They have been very prompt in keeping us aware of their activities!

cc: Roger Anderson-Environmental Bureau Chief
Bill Olson-Hydrogeologist
Jim Mason-Unocal

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

February 6, 1995

RECEIVED

OCD HOBBS OFFICE

Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Jimmy Mason/Gilbert VanDeventer (GCL)

Date Received: 1/27/95
Analysis Date: 2/3/95

Parameter	Value (mg/l)	QC	% Accuracy	Detection Limit
Sample ID: 9501271040 MW-1				
Arsenic (As)	<0.1	10.7	107	0.1
Selenium (Se)	<0.2	2.1	105	0.2
Chromium (Cr)	<0.01	10.6	106	0.01
Cadmium (Cd)	<0.01	2.09	101	0.01
Lead (Pb)	<0.05	10.5	105	0.05
Barium (Ba)	<0.05	197	98	0.05
Silver (Ag)	<0.01	10.4	104	0.01
Mercury (Hg)	<0.001	0.022	95	0.001

Methods: EPA SW 846-3005, 6010, 7741.
Metals QC: 2.0 mg/L Cd, Se, ; 200 mg/L Ba; 10 mg/L As, Pb, Cr and Ag; and 0.005 mg/L Hg.

Kirk Robinson

12600 West I-20 East • Odessa, Texas 79765 • (915) 563-1800 • Fax (915) 563-1713

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

February 8, 1995

RECEIVED

OCD HOBBS OFFICE

Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Jimmy Mason/Gilbert VanDeventer (GCL)

Date Received: 1/27/95
Analysis Date: 2/3/95

EPA 8270 Compounds (ppm)	Value (ppm)	Detection Limit	QC	%IA
Sample ID: 9501271100 MW-1				
Napthalene	ND	0.001	0.454	91

Surrogates	%Recovery
2-Fluorophenol SURR	106
Phenol-d5 SURR	104
Nitrobenzene-d5 SURR	88
2-Fluorobiphenyl	96
2,4,6-Tribromophenol SURR	105
Terphenyl-d14 SURR	128

Methods: EPA SW846-8270.

Kirk Robinson

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

January 30, 1995

GCL Environmental Sciences & Engineering
Mr. Gilbert VanDeventer
306 West Wall, Suite 818
Midland, Texas 79701

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Gilbert VanDeventer
Date Received: 1/27/95
Analysis Date: 1/30/95

Compounds	Actual (ug/l)	Detection Limit (ug/l)	QC	%IA
Sample ID: 9501271045 MW-1				
Benzene	ND	1.0	80	80
Toluene	ND	1.0	82	82
Ethylbenzene	ND	1.0	83	83
Xylene (m,p)	ND	1.0	163	82
Xylene (o)	ND	1.0	83	83
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	90			

QC= 100 ug/l BTE (o)X & 200 ug/l (m,p) X. Surrogate Spike=80 ug/l a,a,a Trifluorotoluene
Methods: EPA SW 846-8020/5030

ND = Not Detected

Kirk Robinson

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LAB OF , INC.
"Don't Treat Your Soil Like Dirt!"

RECEIVED

February 6, 1995

OCD HOBBS OFFICE

Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Jimmy Mason/Gilbert VanDeventer (GCL)

Date Received: 1/27/95
Analysis Date: 2/3/95

Sample ID: 9501271035 MW-1

	Conductivity (uS/cm)	pH (s.u.)	Chlorides (mg/L)	Sulfates (mg/L)	TDS (mg/L)	HCO3 (mg/l)
	4,300	7.5	1,174	120	2,250	231
Quality Control	—	7.0	500	10	---	---
% Accuracy		100	100	100		

Methods: EPA-600/4-79-020 120.1, 150.1, 325.3, 375.4, 160.1, 310.2.

Kirk Robinson

ENVIRONMENTAL
LAB OF , INC.
"Don't Treat Your Soil Like Dirt!"

February 6, 1995

RECEIVED

OCD HOBBS OFFICE

Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Jimmy Mason/Gilbert VanDeventer (GCL)

Date Received: 1/27/95
Analysis Date: 2/3/95

	Ca++ (mg/L)	Mg++ (mg/L)	Na+ (mg/L)	K+ (mg/L)
9501271035 MW-1	297	35.3	674	13.5
Quality Control -----	19.1	21.6	19.8	53.4
% IA	97	108	99	107

QC: Ca++ 20 mg/L, Mg++ 20 mg/L, Na+ 20 mg/l, K+ 50 mg/L

Methods: EPA-600/4-79-020 215.1, 242.1, 273.1, 258.1.

Kirk Robinson

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

January 30, 1995

GCL Environmental Sciences & Engineering
Mr. Gilbert VanDeventer
306 West Wall, Suite 818
Midland, Texas 79701

RECEIVED
OCD HOBBS OFFICE

Sample Matrix: Soil

Project: Unocal, South Vacuum Unit
Project Manager: Gilbert VanDeventer

Date Received: 1/27/95
Analysis Date: 1/30/95

Compounds	Actual (mg/kg)	Detection Limit (mg/kg)	QC	%IA
Sample ID: 9501251155 MW-1 (37-38')				
Benzene	ND	0.1	0.080	80
Toluene	0.66	0.1	0.082	82
Ethylbenzene	0.26	0.1	0.083	83
Xylene (m,p)	2.50	0.1	0.163	82
Xylene (o)	2.56	0.1	0.083	83
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	108			
Sample ID: 9501251545 MW-1 (50-51')				
Benzene	ND	0.1	0.080	80
Toluene	0.49	0.1	0.082	82
Ethylbenzene	0.20	0.1	0.083	83
Xylene (m,p)	1.03	0.1	0.163	82
Xylene (o)	2.40	0.1	0.083	83
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	100			

QC= 100 ppb BTE (o)X & 200 ppb (m,p) X. Surrogate Spike=5 ppm a,a,a Trifluorotoluene
Methods: EPA SW 846-8020/5030

ND = Not Detected

Kirk Robinson

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

January 30, 1995

RECEIVED

OCD HOBBS OFFICE

GCL Environmental Sciences & Engineering
Mr. Gilbert VanDeventer
306 West Wall, Suite 818
Midland, Texas 79701

Sample Matrix: Soil

Project: Unocal, South Vacuum Unit
Project Manager: Gilbert VanDeventer

Date Received: 1/27/95
Analysis Date: 1/30/95

Parameter	Value	Units	EPA SW-846 Test Method
Sample ID: 9501251155 MW-1 (37-38')			**418.1/3550**
Total Petroleum Hydrocarbons	4,926	mg/kg	
Sample ID: 9501251545 MW-1 (50-51')			
Total Petroleum Hydrocarbons	1,785	mg/kg	

QC (Quality Control)

Total Petroleum Hydrocarbons QC: 145 ppm
Detection Limit 10 mg/kg

	Result	% IA
TPH	147 ppm	101

Kirk Robinson

CC: JERRY S[illegible]

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name WAYNE PRICE Date 1/27/95 Miles ____ District I

Time of Departure 7 AM Time of Return 4 PM Car No. G 047[illegible]

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [signature]

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS	
0	0	Pit closure	4	0	UNOCAL - PULLED SAMPLES FROM MW
					PURGED ≈ 20 to 25 GAL PUT
					IN DRUM - Check water level Algae
					Indicator - 59.57' Top of Water
					WITNESSED UNOCAL SAMPLE
					UNOCAL SAMPLE WATER CAUGHT
					WITH PLASTIC BAILER - (TOP)
					4000 µMHOS CONDUCTIVITY
					1100 ppm CL⁻S PH 7.5 - 8.0
					(pint) PALE YELLOW COLOR - <1% SOLIDS
					VERY SLIGHT HYDROCARBON ODOR?
					1/2 full (40 ml vol) WATER SAMPLED PID 89 PPM - 70 (BLANK) ≈ 29 PPM
					RESAMPLED PID ≈ 0

Mileage ____

Per Diem
UIC ____
RFA ____
Other ____

Hours
UIC ____
RFA ____
Other ____

Unocal Energy Resources Division
Unocal Corporation
1004 North Big Spring, P.O. Box 3100
Midland, Texas 79702
Telephone (915) 685-6890
Home (915) 756-3279

UNOCAL 76

Jim D. Mason
Safety/Environmental Supervisor-S. Permian
Permian Basin Business Unit

INSPECTION
[CL]ASSIFICATION

[U]nd Injection Control - Any inspection of or injection project, facility, or well or from injection into any well. (SWD, 2ndry and production wells, water flows or pressure [sur]face injection equipment, plugging, etc.)

[...]s relating to Reclamation Fund Activity

[...]nspections not related to injection or The Reclamation Fund

W = Water Contamination
O = Other

E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED
D = Drilling
P = Production
I = Injection
C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or location
M = Meeting
O = Other

cc: JERRY SEXTON

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

1/25-1/26/95

Name WAYNE PRICE Date _____ Miles _____ District I

Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [signature]

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS
0	0	PIT CLOSURE	10	0

1/25/95 - 1/26/95 UNOCAL MW 35-18S-35E

1/25/95 - ENVIRONMENTAL SPILL CONTROL DRILLED HOLE FOR 4½" HOLE - ALLEN HODGE / GIL VANDEVENTER GCL - CONSULTANT

10' SOIL CALICHE HARD 140 PPM FID

20' HARD CALICHE/SANDSTONE 2 PPM FID

37' OUT OF HARD/INTO SAND & GRAVEL 750 PPM FID

40-43 SANDSTONE

43-50' med-FND SAND 30 PPM FID

58' TOP OF WATER -

70' WATER SAND

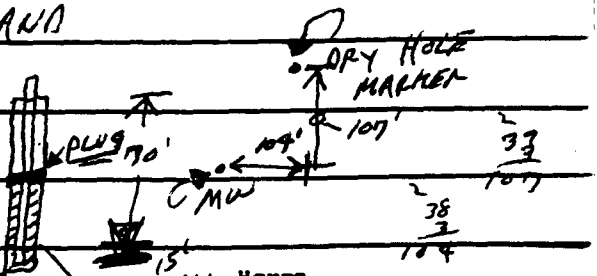
SET 2" PVC PIPE 10' SCREEN IN 5' + OUT

4-100 LB SACK 8/16 SAND

1-50 LB BENTONITE CHIPS

TEMPORARY WELL

PLUG SET @ 20' FROM BOTTOM



Mileage	Per Diem	Hours
UIC	UIC	UIC
RFA	RFA	RFA
Other	Other	Other

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, Indry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)

R = Inspections relating to Reclamation Fund Activity

O = Other - Inspections not related to injection or The Reclamation Fund

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NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

D = Drilling
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S = SWD
U = Underground Storage
G = General Operation
F = Facility or location
M = Meeting
O = Other

STATE OF NEW MEXICO
NMOCD District I

INTER-OFFICE MEMO

To file: Unocal

Date: 1/24/95
Time: Jim Mason 8:15 am

Telephone call: __X__ Meeting: ___ Other: ____

Person called or attending:

Jim Mason-

REFERENCE: Pit Closure-South Vacuum Unit near Buckeye NM unit I 35-18s-35e

Subject: Progress report

Comments:

Jim Mason indicated they are complete with the solidification project and they are going to drill a monitor well starting Wednesday morning 1/23/95. He indicated they plan to drill 10' into the water table. They will use a 2" pvc with 15' of screen. Ten feet in and 5' out. They will sand/gravel pack with a bentonite plug set above.

They plan to develop well and pull 5 well volumes and sample water. If water analysis turns out ok then they will come back and pull pipe and fill hole from bottom to top with cement with 5% bentonite

I informed Mr. Mason that the NMOCD is not requiring him to drill a monitor well, he understood this and indicated that Unocal wants to make sure they are leaving a clean site for future liability reasons.

Wayne Price
NMOCD Environmental Engineer-District I
cc: Jerry Sexton-District I Supervisor
Roger Anderson-Environmental Bureau Chief

5/20/94

ALLSTATE SERVICES
P. O. BOX 11322
MIDLAND, TX. 79702

ATTN: RANDY OFFIELD

MATERIAL SAFETY DATA SHEET

(Complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200)

SOUTHWESTERN

PORTLAND CEMENT COMPANY

ODESSA, TEXAS

SECTION I

MANUFACTURER'S NAME AND ADDRESS

Southwestern Portland Cement Co.
Southdown, Inc.
1200 Smith Street, Suite 2500
Houston, Texas 77002

EMERGENCY TELEPHONE NO.

SOUTHWESTERN PORTLAND CEMENT
ODESSA, TX.
915-385-2800
(24 hour phone number)

CHEMICAL NAME AND SYNONYMS

Portland Cement (CAS #65997-15-1) "Dust"

TRADE NAME AND SYNONYMS

"El Toro Type I"	(Construction Cement)
"El Toro Type I/II"	(Construction Cement)
"El Toro Type III"	(Construction Cement)
"El Toro Type V"	(Construction Cement)
"El Toro Richmortar"	(Masonry Cement)
"El Toro Class C"	(Oil Well Cement)
"El Toro Class H"	(Oil Well Cement)
"El Toro Class A"	(Oil Well Cement)
"El Toro Type K"	(Expansive Cement)

CHEMICAL FAMILY

FORMULA

Calcium Salts:

$3CaO \cdot SiO_2$	(CAS #12168-85-3)
$2CaO \cdot SiO_2$	(CAS #10034-77-2)
$3CaO \cdot Al_2O_3$	(CAS #12042-78-3)
$4CaO \cdot Al_2O_3 \cdot Fe_2O_3$	(CAS #12068-35-8)
$CaSO_4 \cdot 2H_2O$	(CAS #13397-24-5)

Additionally, small amounts of CaO and $CaCO_3$, (in Masonry Cement) and $4CaO \cdot 3Al_2O_3 \cdot SO_3$ (in Type K cement) may be present.

Other Salts: Small amounts of MgO, and trace amounts of K_2SO_4 and Na_2SO_4 may also be present.

SECTION II — HAZARDOUS INGREDIENTS

Portland cement is classified merely as a nuisance dust by OSHA (29 CFR 1910.1000, Table Z-3), MSHA (30 CFR 56.5001, ACGIH TLV's for 1973, Appendix E), and ACGIH (TLV's for 1985-86, Appendix D). Portland cement is **NOT** listed by NTP, IARC, or OSHA as containing carcinogens.

SECTION III — PHYSICAL DATA

BOILING POINT

Not applicable, as portland cement is a powdered solid

VAPOR PRESSURE

Not applicable, as portland cement is a powdered solid

VAPOR DENSITY

Not applicable, as portland cement is a powdered solid

SOLUBILITY IN WATER

Slight (0.1-1.0%)

SPECIFIC GRAVITY

3.10-3.20

PERCENTAGE VOLATILES BY VOLUME

0%

EVAPORATION RATE

Not applicable, as portland cement is a powdered solid

APPEARANCE AND ODOR

Gray powder; no odor

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT

Portland cement is noncombustible and nonexplosive

FLAMMABLE OR EXPLOSIVE LIMITS

Not applicable

EXTINGUISHING MEDIA

Not applicable

SPECIAL FIREFIGHTING PROCEDURES

Not applicable

UNUSUAL FIRE & EXPLOSION HAZARDS

None

SECTION V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Respirable Dust - 5 mg/m^3
Total Dust - 10 mg/m^3

EMERGENCY & FIRST AID PROCEDURES

Irrigate eyes with water; consult physician. Wash exposed skin areas with soap and water.

EFFECTS OF OVEREXPOSURE

Acute: Wet cement, especially as an ingredient in plastic (unhardened) concrete, can dry the skin and cause alkali burns. Cement dust can irritate the eyes and upper respiratory system.

Chronic: Cement dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the eye. Hypersensitive individuals may develop an allergic dermatitis (skin rash).

SECTION VI — REACTIVITY DATA

STABILITY

Product is stable.
Keep dry until used.

INCOMPATIBILITY

None

HAZARDOUS DECOMPOSITION PRODUCTS

None

HAZARDOUS POLYMERIZATION

Will not occur

SECTION VII — SPILL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED

Use dry cleanup methods that do not disperse the dust into the air.

WASTE DISPOSAL METHOD

Material can be returned to container for later use, or it can be disposed of as a common waste.

SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

In dusty environments, use a NIOSH approved respirator.

VENTILATION

Use exhaust fans to control airborne dust levels.

EYE PROTECTION

In dusty environments, use tight fitting goggles.

SKIN PROTECTION

Use barrier creams, gloves, boots and clothing to protect the skin from prolonged contact with wet cement, especially in plastic (unhardened) concrete. Immediately after working with cement, workers should shower with soap and water. Precautions must be observed because wet cement burns with little warning — little heat is sensed.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

None (See Section VIII)

OTHER PRECAUTIONS

None

SECTION X — ABBREVIATIONS

ACGIH

American Conference of Governmental Industrial Hygienists

CAS

Chemical Abstract Service

CFR

Code of Federal Regulations

IARC

International Agency for Research on Cancer

m^3

cubic meter

mg.

milligram

MSHA

Mine Safety and Health Administration

NIOSH

National Institute for Occupational Safety & Health

NTP

National Toxicology Program

OSHA

Occupational Safety and Health Administration

TLV's

Threshold Limit Values

cc: J SEXTON
BP

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name WAYNE PRICE Date 1/19/95 Miles _____ District I

Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [signature]

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS
0	0	0	2	0

UNOCAL PIT - RANDY ALFIERI ALLSTATE CONST CO. -

- CEMENT SOLIDIFICATION PROJECT -

MSDS ATTACHED.

TOOK PICTURES.

Mileage	Per Diem	Hours
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
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5/20/94

ALLSTATE SERVICES
P. O. BOX 11322
MIDLAND, TX. 79702

ATTN: RANDY OFFIELD

MATERIAL SAFETY DATA SHEET

(Complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200)

SOUTHWESTERN

PORTLAND CEMENT COMPANY

ODESSA, TEXAS

SECTION I

MANUFACTURER'S NAME AND ADDRESS

Southwestern Portland Cement Co.
Southdown, Inc.
1200 Smith Street, Suite 2500
Houston, Texas 77002

EMERGENCY TELEPHONE NO.

SOUTHWESTERN PORTLAND CEMENT
ODESSA, TX.
915-385-2800
(24 hour phone number)

CHEMICAL NAME AND SYNONYMS

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TRADE NAME AND SYNONYMS

"El Toro Type I"	(Construction Cement)
"El Toro Type I/II"	(Construction Cement)
"El Toro Type III"	(Construction Cement)
"El Toro Type V"	(Construction Cement)
"El Toro Richmortar"	(Masonry Cement)
"El Toro Class C"	(Oil Well Cement)
"El Toro Class H"	(Oil Well Cement)
"El Toro Class A"	(Oil Well Cement)
"El Toro Type K"	(Expansive Cement)

CHEMICAL FAMILY

FORMULA

Calcium Salts:

$3CaO \cdot SiO_2$	(CAS #12168-85-3)
$2CaO \cdot SiO_2$	(CAS #10034-77-2)
$3CaO \cdot Al_2O_3$	(CAS #12042-78-3)
$4CaO \cdot Al_2O_3 \cdot Fe_2O_3$	(CAS #12068-35-8)
$CaSO_4 \cdot 2H_2O$	(CAS #13397-24-5)

Additionally, small amounts of CaO and $CaCO_3$, (in Masonry Cement) and $4CaO \cdot 3Al_2O_3 \cdot SO_3$ (in Type K cement) may be present.

Other Salts: Small amounts of MgO, and trace amounts of K_2SO_4 and Na_2SO_4 may also be present.

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SECTION III — PHYSICAL DATA

BOILING POINT

Not applicable, as portland cement is a powdered solid

SPECIFIC GRAVITY

3.10-3.20

VAPOR PRESSURE

Not applicable, as portland cement is a powdered solid

PERCENTAGE VOLATILES BY VOLUME

0%

VAPOR DENSITY

Not applicable, as portland cement is a powdered solid

EVAPORATION RATE

Not applicable, as portland cement is a powdered solid

SOLUBILITY IN WATER

Slight (0.1-1.0%)

APPEARANCE AND ODOR

Gray powder; no odor

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT

Portland cement is noncombustible and nonexplosive

SPECIAL FIREFIGHTING PROCEDURES

Not applicable

FLAMMABLE OR EXPLOSIVE LIMITS

Not applicable

UNUSUAL FIRE & EXPLOSION HAZARDS

None

EXTINGUISHING MEDIA

Not applicable

SECTION V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Respirable Dust - 5 mg/m^3
Total Dust - 10 mg/m^3

EFFECTS OF OVEREXPOSURE

Acute: Wet cement, especially as an ingredient in plastic (unhardened) concrete, can dry the skin and cause alkali burns. Cement dust can irritate the eyes and upper respiratory system.

EMERGENCY & FIRST AID PROCEDURES

Irrigate eyes with water; consult physician. Wash exposed skin areas with soap and water.

Chronic: Cement dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the eye. Hypersensitive individuals may develop an allergic dermatitis (skin rash).

SECTION VI — REACTIVITY DATA

STABILITY

Product is stable.
Keep dry until used.

HAZARDOUS DECOMPOSITION PRODUCTS

None

INCOMPATIBILITY

None

HAZARDOUS POLYMERIZATION

Will not occur

SECTION VII — SPILL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED

Use dry cleanup methods that do not disperse the dust into the air.

WASTE DISPOSAL METHOD

Material can be returned to container for later use, or it can be disposed of as a common waste.

SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

In dusty environments, use a NIOSH approved respirator.

VENTILATION

Use exhaust fans to control airborne dust levels.

EYE PROTECTION

In dusty environments, use tight fitting goggles.

SKIN PROTECTION

Use barrier creams, gloves, boots and clothing to protect the skin from prolonged contact with wet cement, especially in plastic (unhardened) concrete. Immediately after working with cement, workers should shower with soap and water. Precautions must be observed because wet cement burns with little warning — little heat is sensed.

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

None (See Section VIII)

OTHER PRECAUTIONS

None

SECTION X — ABBREVIATIONS

ACGIH

American Conference of Governmental Industrial Hygienists

CAS

Chemical Abstract Service

CFR

Code of Federal Regulations

IARC

International Agency for Research on Cancer

m^3

cubic meter

mg.

milligram

MSHA

Mine Safety and Health Administration

NIOSH

National Institute for Occupational Safety & Health

NTP

National Toxicology Program

OSHA

Occupational Safety and Health Administration

TLV's

Threshold Limit Values

Revision date 3/21/91

SOUTH
UNOCAL
PERMIAN

1004 N. BIG SPRING, SUITE 300
MIDLAND, TX 79701
915/685-7600

FACSIMILE #915/685-6701
COVER SHEET

TO: OIL CONSERVATION DIVISION (ATT: WAYNE PRICE)

FAX # _____

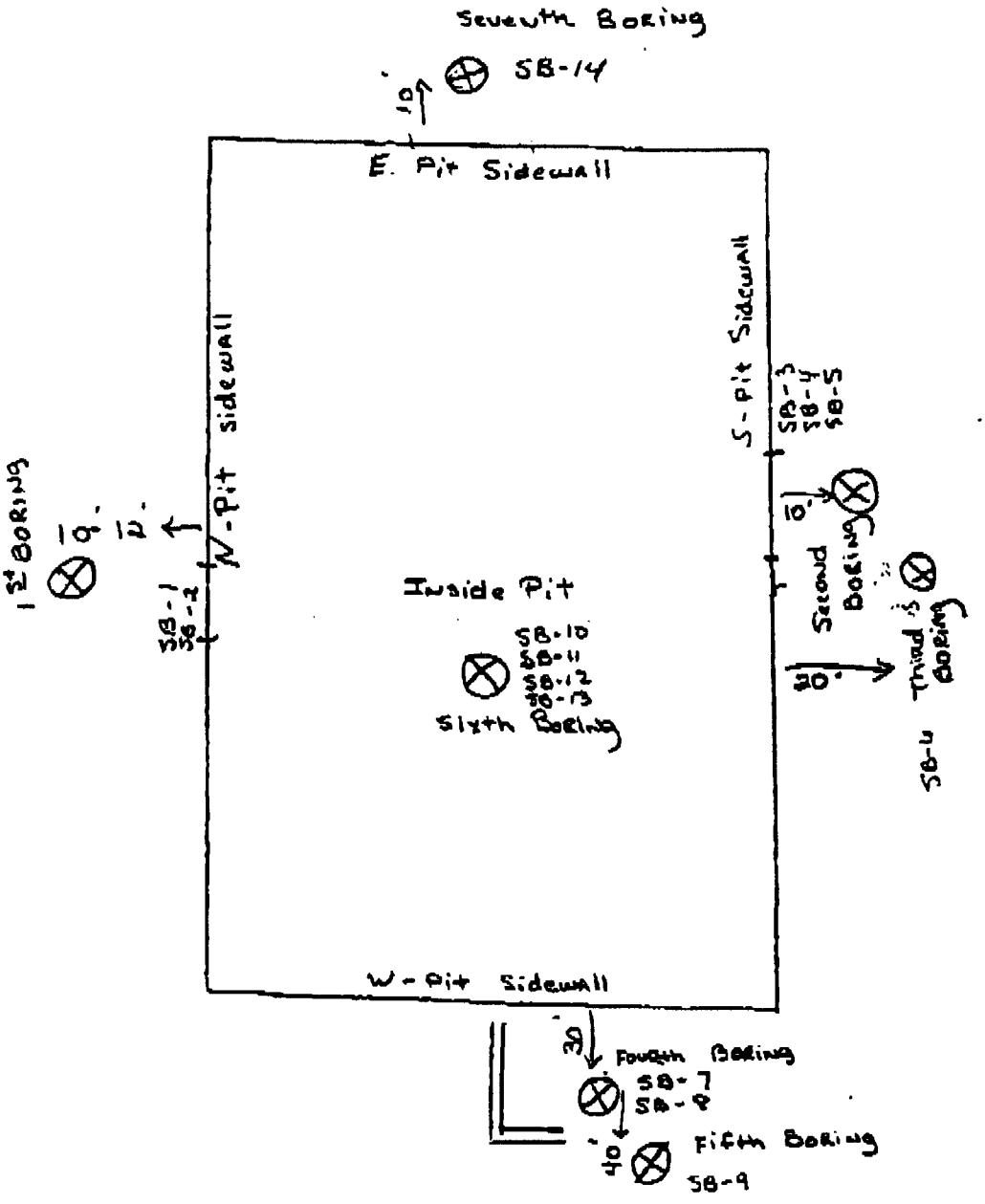
FROM: JIM MASON

 # OF PAGES _____

COMMENTS: WAYNE, THESE ARE THE RESULTS OF THE SOIL SAMPLES TAKEN ON THE SOUTH VACUUM UNIT SWD PIT. I WILL GIVE YOU A CALL AND DISCUSS THEM

If you have difficulty receiving transmission, call 915/685-6869.

Sample Sites



Soil Borings
1-12-95

SOUTH VACUUM UNIT SWD PIT

SAMPLE POINT DEPTHS

	SAMPLE POINT DESIGNATION	DEPTH BELOW GROUND LEVEL
1.	SB-2	20'
2.	SB-5	25'
3.	SB-6	10'
4.	SB-8	16'
5.	SB-9	15'
6.	SB-10	15'
7.	SB-11	20'
8.	SB-12	25'
9.	SB-13	30'

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

January 16, 1995

Client: Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Soil

Job ID: Vacuum Lease
Date Received: 1/13/95
Date Reported: 1/16/95

Parameter	Value	Units	EPA Test Method
Sample ID: SB-2			
Total Chlorides	638	ppm	325.3
Sample ID: SB-5			
Total Chlorides	213	ppm	
Sample ID: SB-6			
Total Chlorides	383	ppm	
Sample ID: SB-8			
Total Chlorides	128	ppm	
Sample ID: SB-9			
Total Chlorides	298	ppm	
Sample ID: SB-10			
Total Chlorides	681	ppm	
Sample ID: SB-11			
Total Chlorides	425	ppm	
Sample ID: SB-12			
Total Chlorides	723	ppm	
Sample ID: SB-13			
Total Chlorides	427	ppm	

Kirk Robinson

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

January 16, 1995

Client: Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Soil

Job ID: Vacuum Lease
Date Received: 1/13/95
Date Reported: 1/16/95

Parameter	Value	Units	EPA Test Method
Sample ID: SB-2			
Total Petroleum Hydrocarbons	41	ppm	418.1/3550
Sample ID: SB-5			
Total Petroleum Hydrocarbons	344	ppm	
Sample ID: SB-6			
Total Petroleum Hydrocarbons	<10.0	ppm	
Sample ID: SB-8			
Total Petroleum Hydrocarbons	375	ppm	
Sample ID: SB-9			
Total Petroleum Hydrocarbons	<10.0	ppm	
Sample ID: SB-10			
Total Petroleum Hydrocarbons	18,444	ppm	
Sample ID: SB-11			
Total Petroleum Hydrocarbons	1,976	ppm	
Sample ID: SB-12			
Total Petroleum Hydrocarbons	1,118	ppm	
Sample ID: SB-13			
Total Petroleum Hydrocarbons	152	ppm	

QC (Quality Control)

Total Petroleum Hydrocarbons 418.1 QC: 150 ppm
Detection Limit 10.0 ppm

	Result	%IA
TPH 418.1	150 ppm	100

Kirk Robinson

page 3 BTEX Continued

Compounds	Actual (ppm)	Detection Limit (ppm)	QC	%IA
Sample ID: SB-12				
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (o)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	94			
Sample ID: SB-13				
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (o)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	97			

QC= 100 ppb BTE (o)X & 200 ppb (m,p) X. Surrogate Spike=120 ppb a,a,a Trifluorotoluene
Methods: EPA SW 846-8020/5030

ND = Not Detected

Kirk Robinson

page 2 BTEX Continued

Compounds	Actual (ppm)	Detection Limit (ppm)	QC	%IA
Sample ID: SB-8				
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (o)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	96			
Sample ID: SB-9				
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (o)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	94			
Sample ID: SB-10				
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (o)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	97			
Sample ID: SB-11				
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (o)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	96			

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

January 16, 1995

Client: Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Soil

Job ID: Vacuum Lease
Date Received: 1/13/95
Date Reported: 1/16/95

Compounds	Actual (ppm)	Detection Limit (ppm)	QC	%IA
Sample ID: SB-2				
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (o)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	90			
Sample ID: SB-5				
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (o)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	88			
Sample ID: SB-6				
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (o)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	97			

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

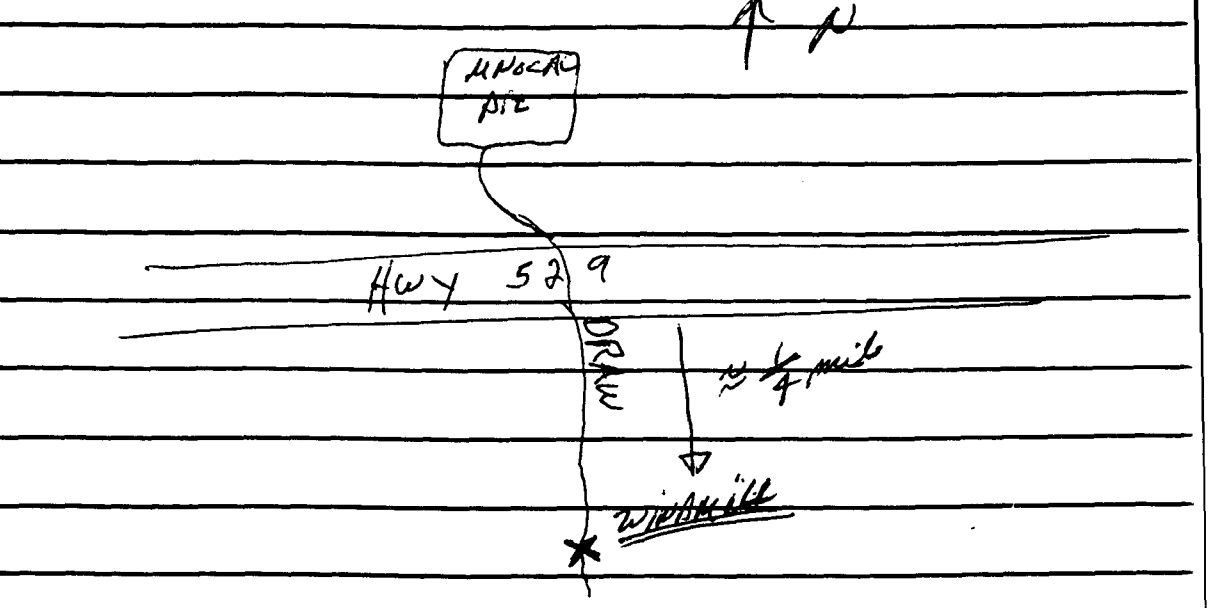
INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS

Name WAYNE PRICE Date 1/09/95 Miles _____ District I

Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature



TOOK WATER SAMPLE FROM WINDMILL

CL ~ 35 PPM

PH ~ 7

CLEAR WATER - (NO SMELL)

Mileage	Per Diem	Hours
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION CLASSIFICATION

U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)

R = Inspections relating to Reclamation Fund Activity

O = Other - Inspections not related to injection or The Reclamation Fund

E = Indicates some form of enforcement action taken in the field (show immediately below the letter: U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

D = Drilling
P = Production
I = Injection
C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or location
M = Meeting
O = Other

Submit 3 Copies to Appropriate District Office

Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

WELL API NO.
30-025-03151

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
E-1533

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
South Vacuum Unit "35" SWD

1. Type of Well:
OIL WELL [ ] GAS WELL [ ] OTHER Surface Impound

2. Name of Operator
Union Oil Company of California dba UNOCAL

8. Well No.

3. Address of Operator
P.O. Box 3100 Midland, TX

9. Pool name or Wildcat
South Vacuum Devonian

4. Well Location
Unit Letter I : 1980 Feet From The South Line and 660 Feet From The East Line

Section 35 Township 18-S Range 35-E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3860' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]			CASING TEST AND CEMENT JOB	[ ]		
OTHER: Surface Impoundment Closure	[ ]			OTHER:			[ ]

12. Describe Proposed or Completed Operations *(Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work)* SEE RULE 1103.

UNOCAL proposes to delineate and then remediate an unlined surface impoundment known to contain levels of petroleum hydrocarbons at the South Vacuum Unit SWD. During delineation an assessment will be made to determine the extent of contamination below the surface and to the sides of the impound by sampling and field testing. After delineation, solidification material will be placed in the impoundment and the contamination will be mixed with solidification material until proper consistency is achieved, then remixed with added water to create an encapsulation reaction. Soil will then be placed over the area and the site will be revegitated. Vertical depth to ground water in this area is approximately 50'. There are no known private or domestic water wells in the area and the distance to any ponds, rivers or streams is in excess of 1000'. This gives the impoundment an overall ranking score of 20 points.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Jimmy Mason TITLE HES Coordinator DATE 12-5-94

TYPE OR PRINT NAME Jimmy Mason TELEPHONE NO. 915/685-

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR TITLE DATE JAN 10 1995

CONDITIONS OF APPROVAL, IF ANY:

??

cc: J SEXTON

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

Name WAYNE PRICE Date _____ Miles _____ District I

Time of Departure 7 AM Time of Return 4 PM Car No. G 047

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature [signature]

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS
0	0	S	2	0

REF: UNOCAL PIT REMEDIATION - 35-18-S-35E UNIT I
1980' FSL 660 FEL

S VAC UNIT - BUCKEYE

LOCATION SIGN (DALLAS PRODUCTION)

SHOWS SEC 36, C-103 SHOWS SEC 35?

ALLSTATE (CONTRACTOR) - REVIEWED & SIGN OSHA HEALTH PLA

TOOK SAMPLE ≈ 10' DEEP TPH 17,960 PPM

BETX (PID) 309 PPM (FIELD HEADSPA

SOIL → CHROMIES ≈ 2500 PPM

SAMPLE HEAVY OLFACTORY SMELL (HYDRO CARBON)

VISUAL CONTAMINATION!

≈ 50 YARDS DUG OUT!

Mileage		Per Diem		Hours	
UIC		UIC		UIC	
RFA		RFA		RFA	
Other		Other		Other	

TYPE INSPECTION PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
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C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or location
M = Meetings
O = Other

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 1:20 PM	Date 1/4/95

Originating Party	Other Parties
JIM MASON - UNOCAL	

Subject: PIT CLOSURE

Discussion: LEFT MESSAGE - HAVE ~~SENT~~ GUIDELINES & C-103

Conclusions or Agreements

PLEASE CALL WHEN YOU START INVESTIGATION AND/OR REMEDIATION.

Distribution
cc: JERRY SEXTON

Signed

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

January 3, 1995

Mr. Jim Mason
Unocal Corporation
P.O. 3100
Midland, Texas 79702

Dear Mr. Mason,

Per your telephone request, I am enclosing the NMOCD pit closure guidelines. Please notice the last page of the guidelines now contains a pit closure form to be filled out and submitted to the appropriate NMOCD offices as requested on the form.

If you have any questions please don't hesitate to call or write.

Sincerely yours,

Wayne Price- Environmental Engineer

cc: Jerry Sexton District I Supervisor

attachments-1

to Appropriate
District Office

Energy, Minerals and Natural Resources Department

Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
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1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
30-025-03151

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
E-1533

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
South Vacuum Unit "35" SWD

1. Type of Well:
OIL WELL [ ] GAS WELL [ ] OTHER Surface Impound

2. Name of Operator
Union Oil Company of California dba UNOCAL

8. Well No.

3. Address of Operator
P.O. Box 3100 Midland, TX

9. Pool name or Wildcat
South Vacuum Devonian

4. Well Location
Unit Letter I : 1980 Feet From The South Line and 660 Feet From The East Line

Section 35 Township 18-S Range 35-E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3860' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]			CASING TEST AND CEMENT JOB	[ ]		
OTHER: Surface Impoundment Closure	[ ]			OTHER:			

12. Describe Proposed or Completed Operations *(Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work)* SEE RULE 1103.

UNOCAL proposes to delineate and then remediate an unlined surface impoundment known to contain levels of petroleum hydrocarbons at the South Vacuum Unit SWD. During delineation an assessment will be made to determine the extent of contamination below the surface and to the sides of the impound by sampling and field testing. After delineation, solidification material will be placed in the impoundment and the contamination will be mixed with solidification material until proper consistency is achieved, then remixed with added water to create an encapsulation reaction. Soil will then be placed over the area and the site will be revegitated. Vertical depth to ground water in this area is approximately 50'. There are no known private or domestic water wells in the area and the distance to any ponds, rivers or streams is in excess of 1000'. This gives the impoundment an overall ranking score of 20 points.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Jimmy Mason TITLE HES Coordinator DATE 12-5-94

TYPE OR PRINT NAME Jimmy Mason (915-685-7600) TELEPHONE NO. 915/685

(This space for State Use) ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

JAN 03 1995

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

RECEIVED '95 FEB 13 AM 8 52

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

NMOCD Inter-Correspondence

To: Jerry Sexton-District I Supervisor

From: Wayne Price-Environmental Engineer District I

Date: February 9, 1995
10:00 am

Reference: Unocal Pit Closure South Vacuum Unit
Unit I-Sec 35-18s-R35e

Subject: Monitor well results-analysis attached

Comments:

Jim Mason with Unocal delivered the analytical results of the recent sampling events of the monitor well. After reviewing the results it appears that NM ground water standards have been exceeded, therefore I recommended that Mr. Mason contact Roger Anderson and notify him of the situation.

It appears the chlorides and TDS exceeded the standards. Also, there still appears to be a contaminated area just south of the pit where the monitor well was installed. Soil borings taken at 37-38 feet below surface in this area indicates a TPH level of 4926 ppm and at 50-51 feet it is 1,785 ppm. The top of the water table is approximately 58 feet below surface.

This area apparently was missed during the excavation. It is not known at this time the extent or magnitude of the remaining soil and ground water contamination.

Please note Unocal has initiated all of the remediation activities as of to date, and has been doing an excellent job. They have been very prompt in keeping us aware of their activities!

cc: Roger Anderson-Environmental Bureau Chief
Bill Olson-Hydrogeologist
Jim Mason-Unocal

ENVIRONMENTAL
LAB OF TEXAS, INC.
"Don't Treat Your Soil Like Dirt!"

February 6, 1995

Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Jimmy Mason/Gilbert VanDeventer (GCL)

Date Received: 1/27/95
Analysis Date: 2/3/95

Parameter	Value (mg/l)	QC	% Accuracy	Detection Limit
Sample ID: 9501271040 MW-1				
Arsenic (As)	<0.1	10.7	107	0.1
Selenium (Se)	<0.2	2.1	105	0.2
Chromium (Cr)	<0.01	10.6	106	0.01
Cadmium (Cd)	<0.01	2.09	101	0.01
Lead (Pb)	<0.05	10.5	105	0.05
Barium (Ba)	<0.05	197	98	0.05
Silver (Ag)	<0.01	10.4	104	0.01
Mercury (Hg)	<0.001	0.022	95	0.001

Methods: EPA SW 846-3005, 6010, 7741.
Metals QC: 2.0 mg/L Cd, Se, ; 200 mg/L Ba; 10 mg/L As, Pb, Cr and Ag; and 0.005 mg/L Hg.

Kirk Robinson

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

February 8, 1995

Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Jimmy Mason/Gilbert VanDeventer (GCL)

Date Received: 1/27/95
Analysis Date: 2/3/95

EPA 8270 Componds (ppm)	Value (ppm)	Detection Limit	QC	%IA
Sample ID: 9501271100 MW-1				
Napthalene	ND	0.001	0.454	91

Surrogates	%Recovery
2-Fluorophenol SURR	106
Phenol-d5 SURR	104
Nitrobenzene-d5 SURR	88
2-Fluorobiphenyl	96
2,4,6-Tribromophenol SURR	105
Terphenyl-d14 SURR	128

Methods: EPA SW846-8270.

Kirk Robinson

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

January 30, 1995

RECEIVED
FEB 09 1995
O C D HOBBS OFFICE

GCL Environmental Sciences & Engineering
Mr. Gilbert VanDeventer
306 West Wall, Suite 818
Midland, Texas 79701

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Gilbert VanDeventer
Date Received: 1/27/95
Analysis Date: 1/30/95

Compounds	Actual (ug/l)	Detection Limit (ug/l)	QC	%IA
Sample ID: 9501271045 MW-1				
Benzene	ND	1.0	80	80
Toluene	ND	1.0	82	82
Ethylbenzene	ND	1.0	83	83
Xylene (m,p)	ND	1.0	163	82
Xylene (o)	ND	1.0	83	83
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	90			

QC= 100 ug/l BTE (o)X & 200 ug/l (m,p) X. Surrogate Spike=80 ug/l a,a,a Trifluorotoluene
Methods: EPA SW 846-8020/5030

ND = Not Detected

Kirk Robinson

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

February 6, 1995

Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Jimmy Mason/Gilbert VanDeventer (GCL)

Date Received: 1/27/95
Analysis Date: 2/3/95

Sample ID: 9501271035 MW-1

	Conductivity (uS/cm)	pH (s.u.)	Chlorides (mg/L)	Sulfates (mg/L)	TDS (mg/L)	HCO3 (mg/l)
	4,300	7.5	1,174	120	2,250	231
Quality Control	---	7.0	500	10	---	---
% Accuracy		100	100	100		

Methods: EPA-600/4-79-020 120.1, 150.1, 325.3, 375.4, 160.1, 310.2.

Kirk Robinson

ENVIRONMENTAL
LAB OF TEXAS, INC.
"Don't Treat Your Soil Like Dirt!"

February 6, 1995

Unocal
Mr. Jimmy Mason
P.O. Box 3100
Midland, Texas 79702

Sample Matrix: Water

Project: Unocal, South Vacuum Unit
Project Manager: Jimmy Mason/Gilbert VanDeventer (GCL)

Date Received: 1/27/95
Analysis Date: 2/3/95

		Ca++ (mg/L)	Mg++ (mg/L)	Na+ (mg/L)	K+ (mg/L)
9501271035 MW-1		297	35.3	674	13.5
Quality Control	-----	19.1	21.6	19.8	53.4
% IA		97	108	99	107

QC: Ca++ 20 mg/L, Mg++ 20 mg/L, Na+ 20 mg/l, K+ 50 mg/L

Methods: EPA-600/4-79-020 215.1, 242.1, 273.1, 258.1.

Kirk Robinson

ENVIRONMENTAL
LAB OF , INC.
"Don't Treat Your Soil Like Dirt!"

January 30, 1995

GCL Environmental Sciences & Engineering
Mr. Gilbert VanDeventer
306 West Wall, Suite 818
Midland, Texas 79701

Sample Matrix: Soil

Project: Unocal, South Vacuum Unit
Project Manager: Gilbert VanDeventer

Date Received: 1/27/95
Analysis Date: 1/30/95

Compounds	Actual (mg/kg)	Detection Limit (mg/kg)	QC	%IA
Sample ID: 9501251155 MW-1 (37-38')				
Benzene	ND	0.1	0.080	80
Toluene	0.66	0.1	0.082	82
Ethylbenzene	0.26	0.1	0.083	83
Xylene (m,p)	2.50	0.1	0.163	82
Xylene (o)	2.56	0.1	0.083	83
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	108			
Sample ID: 9501251545 MW-1 (50-51')				
Benzene	ND	0.1	0.080	80
Toluene	0.49	0.1	0.082	82
Ethylbenzene	0.20	0.1	0.083	83
Xylene (m,p)	1.03	0.1	0.163	82
Xylene (o)	2.40	0.1	0.083	83
Surrogate Spike	%Recovery			
a,a,a Trifluorotoluene	100			

QC= 100 ppb BTE (o)X & 200 ppb (m,p) X. Surrogate Spike=5 ppm a,a,a Trifluorotoluene
Methods: EPA SW 846-8020/5030

ND = Not Detected

Kirk Robinson

ENVIRONMENTAL
LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

January 30, 1995

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GCL Environmental Sciences & Engineering
Mr. Gilbert VanDeventer
306 West Wall, Suite 818
Midland, Texas 79701

Sample Matrix: Soil

Project: Unocal, South Vacuum Unit
Project Manager: Gilbert VanDeventer
Date Received: 1/27/95
Analysis Date: 1/30/95

Parameter	Value	Units	EPA SW-846 Test Method
Sample ID: 9501251155 MW-1 (37-38')			418.1/3550
Total Petroleum Hydrocarbons	4,926	mg/kg	
Sample ID: 9501251545 MW-1 (50-51')			
Total Petroleum Hydrocarbons	1,785	mg/kg	

QC (Quality Control)

Total Petroleum Hydrocarbons QC: 145 ppm
Detection Limit 10 mg/kg

	Result	% IA
TPH	147 ppm	101

Kirk Robinson

• Odessa, Texas 79765 • (915) 563-1800 • Fax (915) 563-1713

STATE OF NEW MEXICO
NMOCD District I

INTER-OFFICE MEMO

To file: Unocal

Date: 1/24/95
Jim Mason
Time: 8:15 am

Telephone call: __X__ Meeting: ___ Other: ____

Person called or attending:

Jim Mason-

REFERENCE: Pit Closure-South Vacuum Unit near Buckeye NM unit I 35-18s-35e

Subject: Progress report

Comments:

Jim Mason indicated they are complete with the solidification project and they are going to drill a monitor well starting Wednesday morning 1/23/95. He indicated they plan to drill 10' into the water table. They will use a 2" pvc with 15' of screen. Ten feet in and 5' out. They will sand/gravel pack with a bentonite plug set above.

They plan to develop well and pull 5 well volumes and sample water. If water analysis turns out ok then they will come back and pull pipe and fill hole from bottom to top with cement with 5% bentonite

I informed Mr. Mason that the NMOCD is not requiring him to drill a monitor well, he understood this and indicated that Unocal wants to make sure they are leaving a clean site for future liability reasons.

Wayne Price
NMOCD Environmental Engineer-District I
cc: Jerry Sexton-District I Supervisor
Roger Anderson-Environmental Bureau Chief

OIL CONSER[illegible]
REC[illegible]
'95 FE[illegible]

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FEB 21 1995
Environmental Bureau
Oil Conservation Division

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time ≈	Date 2/15/95

Originating Party	Other Parties
JIM MASON - UNOCAL	

Subject: PIT CLOSURE - S VAC UNIT Buckeye NM
UNIT I SEC 35-18S-R35E

Discussion: CALLED & INFORMED ME THAT THEY WILL BE ON SITE TO COMPLETE MONITOR WELL INSTALLATION FOR FUTURE USE.

Conclusions or Agreements

WILL CEMENT/3-5% BENTONITE AROUND 2" PVC PIPE TO SURFACE, WILL INSTALL PAD, WELL PROTECTOR PIPE & LOCK!

Distribution
cc: BILL OLSON
JERRY SEXTON

Signed [signature]

Memo

From

ROGER ANDERSON
Environmental Engineer

To Bill

Jim Mason UNOCAL

Pit closure west of Hobbs

Has Cl contamination

915-685-6890

Oil Conservation Division Santa Fe, New Mexico 87501
(505) 827-5800