

GENERAL CORRESPONDENCE

YEAR(S): |995-



IL CONSER ... ON DIVISION STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT RECEIVED '95 FEH 24 AM 8 52 **OIL CONSERVATION DIVISION** HOBBS DISTRICT OFFICE

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

NMOCD Inter-Correspondence

To: Bill Olson-Hydrogeologist Santa Fe Office

Wayne Price-Environmental Engineer District I From:

Date:

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 Please refer to letter dated 2/9/95 (monitor well enclosed. 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)

JG FR

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STATE OF NEW MEXICO OIL CONSERVATION DIVISION	ANDUM OF MEETING O	R CONVERSATION				
Telephone Personal	Time ☆ ▲COM	Date 2/1.5/95				
Originating Party	-	Other Parties				
JIM MASON- MNOCAL						
Subject Pit CLOSURE -	s vac unit	Bucheye NM				
ANIT I SEC 35	- 185- R35e	· · · ·				
Discussion CALLEN + NUL BE MONITON FUTURE 1	INGONEN ON SITE USU INS 15E.	ME tHAL THEY TO COMPLETE STALLATION ROA				
Conclusions or Agreements						
WILL CEMENt/3-	5% BENTONIE	E AROURD 2" PUZ				
PIPE TO SUL	for & will	FUSTALL PAD, WELL AputEcton				
MAB & LOR,	K!					
cc: BILL OLSON		aller in				
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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

Wayne Price-Environmental Engineer District I From:

- Date: February 9, 1995 10:00 am
- Unocal Pit Closure South Vacuum Unit Reference: 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

DRUG FRE

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Spil Like Dirt!"

February 6, 1995

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

Sample Matrix: Water

UCD HOBBS OFFICE

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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)	00	% Vacuracy	Detection
Sample ID: 95012	71040 MW-1	QC	Accuracy	
Arsenic (As)	<0.1	10.7	107	0.1
Selenium (Sc)	<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.



February 8, 1995 RECEIVED

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

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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

		Detection		
EPA 8270 Componds (ppm)	Value (ppm)	Limit	0C	%IA
Sample ID: 9501271100 MW-1		· · · · ·		
Napthalene	ND	0.001	0.454	91
Surrogates	%Recovery			
2-Fluorophenol SURR	106			
Phenoi-d5 SURR	104			
Nitrobenzene-d5 SURR	88			
2-Fluorobiphenyl	96			
2,4,6-Tribromophenol SURR	105			
Terphenyl-d14 SURR	128			
Methods: EPA SW846-8770				



January 30, 1995

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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

		Detection		
Compounds	Actual (ug/l)	Limit (ug/l)	<u>OC</u>	<u>%IA</u>
Sample ID: 950127104	5 MW-1			
Benzene	ND	1.0	80	80
Tolucne	ND	1.0	82	82
Ethylbenzenc	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 Triffuorotohuene	90			

QC= 100 ug/l BTE (0)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

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 Contro	ol —	7.0	500	10		wee
% Accuracy		100	100	100		

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

Kirk Robinson

P.03

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P.02

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

	Ca++ (mg/L)	Mg++ (mg/L)	Na+	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.

k Robinson

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ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirtl"

January 30, 1995

GCL Environmental Sciences & Engineering Mr. Gilbert VanDeventer 306 West Wali, 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

		Detection	1	
Compounds	Actual (mg/kg)	Limit (m	g/kg) QC	<u>%IA</u>
Sample ID: 950125115	5 MW-1 (37-38')			
Benzene	ND	0.1	0.080	80
Tohiene	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: 950125154	5 MW-1 (50-51')			
Benzene	ND	0.1	0.080	80
Tolucne	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
Xylenc (o)	2.40	0.1	0.083	83
Surrogate Spike	%Recovery			
a a a Triffuorotohiene	100			

QC= 100 ppb BTE (0)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

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P.03

ENVIRONMENTAL LAB OF) , Inc.

"Don't Treat Your Soil Like Dirt!"

January 30, 1995

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UCD 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 (3	7-38')		418.1/3550
Total Petroleum Hydrocarbons	4,926	mg/kg	
Sample ID: 9501251545 MW-1 (5	0-51')		
Total Petroleum Hydrocarbons	1,785	mg/kg	
	QC (Qual	ity Control)	
Total Petroleum Hydrocarbons QC: Detection Limit 10 mg/kg	145 ppm		

Result <u>% IA</u> TPH 147 ppm 101

Kirk Robinson

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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	No. G 0472
0 0 4 0 <u>UNOCAL - PULLEA SAMPLES FROM MW</u> <u>purgen ~ 20 to 25 GAL put</u> <u>IN ARUM - Clad Jola-feve Algo</u> <u>Ardicoter - 59.57 Top of 20 the</u> <u>with 555ED UNOCAL SAMPLE</u> <u>NHOCA SAMPLE</u> <u>UNOCA SAMPLE DATER CAUGH</u> <u>2019</u> <u>4000 MAMHOS COUDUCTITINE</u> <u>ALOO MAMHOS COUDUCTITINE</u>	
PURGEN ~ 20 20 25 GAL AUT IN ORUM - Ober Irolen feve Altre Andreden - 59.57 Top of 207ter 2012 2012 20555ED UNICAL SAMPLE NHOCH SAMPLE DIALER CAUSH 2012 2012 ALTR CAUSH 2012 200 AMPLOS CONDUCTIONLY 4000 AMPLOS CONDUCTIONLY 100 EFTE PH 7.5-8.0	
IN ORUM - Cleck John feve Alge Ardicolar - 59.57 Top of 207ter 2012 NESSED UNICAL SAMPLE NHOCA SAMPLE DIATER CAUGH 2019 AND ASTOR BAILER (TUP) 4000 MMMHOS CONDUCTIONNEY 1100 EFTE PH 7.5-8.0	
2 Adicater - 59.57 Topor Worter WHOCH SAMPLE NHOCH SAMPL	2
WILNESSED UNICAL SAMPLE NHOCH SAMPLE DIALER CAUGH WILL PLASTER BAILER (TUP) 4000 MMMHOS CONDUCTILING 1100 FFE PH 7.5-8.0	
NHOCH SAMPING WATER CAUGH WITH PLASTIZ BAILER (TUP) 4000 MAMHOS CONDUCTITIVET 1100 FITE PH 7.5-8.0	
ALOO FIE PH 7.5-8.0	ŧ
4000 MMMHOS CONDUCTITINET	
1100 FIE PH 7.5-8.0	
(Pirt) PALE YELLOW COLOR - 45 To SOLIAS	
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+ Sull (AD mel 2006) SAMALEA PIA 87 1PM - TO(BLAUK) ~	290PM
DESQUALEA ATA & O	<u> </u>
Mileage Per Diem Hours UIC UIC UIC	
Unocal Energy Resources Division RFA RFA	
Midland, Texas 79702 Other Other Other Telephone (915) 685-6890 Home (915) 756-3279 ————————————————————————————————————	
INSPECTION NATURE OF SP ASSIFICATION OR FACILITY	ECIFIC WELL. INSPECTED
d Injection Control - Any inspection of or D = Drilling Jim D. Mason from injection into any well. (SND. 2ndry I = Injection Safety/Environmental Supervisor-S. Permian Permian Basin Business Unit C = Combined	.cn m~)-prod. inj. .ons
Is relating to Reclamation Fund Activity U = Undergro W = WAter Contemposition Ispections not related to injection or The C = General 0 = Other Reclamation Fund F = Facility	und Storage

field (show-immediately below-the letter U, R er O)

CC: JEARY SER

CC: JERPY SEXT

I	ç	F	н	0	NEW MEXICO OIL CONSERVATION COMMISSION FIELD TRIP REPORT
N S P E C	L A S S I F	A C I L	U R S	A R T E	Name WAYNE PRICE Date Miles District I
T I N	HUATHON	T Y		R H O U R S	In the space below indicate the purpose of the trip and the duties performed. Listing wells of leases visited and any action taken. Signature
0	0	5425	10	0	1/25/95 - 1/26/95 UNOCAL MW 35-185-350
		Pit ciu			1/25/95 - ENVIRONMENTAL SPILL CONTROL ARILLED HOUS FOR 9 1" HOLE - ALLENHADGE GEL-CONSULTARI
					10' SOIL CALICHE HARA 140PPM FID
					20 HARD CALICH & SAND STORE I AM FID 37' out of HARD/INto 750 APM FID
					SAMA & GRAVEL
					40-43 SAND STONE 43-50' med-Find SAND 30 PAM FID
					58' TOP of WATER-
					70' WATER SAND SET 2" PAGE DIAGE 10'SCREEN TN D MARKEN
					4-100 LB SACK 816 SAND
					TENPORARY ZIELL 26' THE 35 ALUS Mileage Per Dient Scotor Hours
					SET UIC UIC UIC # Jo' RFA RFA RFA CPOM Other Other Other
		1			porter

TYPE INSPECTION PERFORMED	INSPECTION CLASSIFICATION	NATURE OF SPECIFIC WELL. OR FACILITY INSPECTED
H = Housekeeping P = Plugging C = Plugging Cleanup T = Well Test R = Repair/Workover F = Waterflow M = Mishap or Spill W = Water Contamination O = Other	 U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SNO. 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.) R = Inspections rolating to Reclamation Fund Activity O = Other - Inspections not related to injection or The Reclamation Fund 	D = Orilling P = Production I = Injection C = Combined prod. inj. operations S = 6WD U = Underground Storage G = General Operation P = facility or location N = Meetings
	<pre>L = indicates edge-lorm of enforcement.action-taken-in the field.(shew-immediately below: the letter U. R er:0)</pre>	0 = Other=

STATE OF NEW MEXICO NMOCD District I

INTER-OFFICE MEMO

To file: Unocal Date: Jim Mason 1/24/95Date: 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

Dr-

SECTION I

MANUFACTURER'S NAME AND ADDRESS

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

CHEMICAL NAME AND SYNONYMS

Portland Cement (CAS #65997-15-1)

EMERGENCY TELEPHONE NO.

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

TRADE NAME AND SYNONYMS

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

CHEMICAL FAMILY

FORMULA

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Calcium Salts:

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

Additionally, small amounts of CaO and CaCO₃, (in Masonry Cement) and 4CaO³Al₂O₃·SO₃ (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

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/m³ Total Dust - 10 mg/m³

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

SECTION X — ABBREVIATIONS

ACGIH

American Conference of Governmental Industrial Hygienists

CAS

Chemical Abstract Service

CFR

Code of Federal Regulations

International Agency for Research on Cancer

m٩

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

•						CC: J SFAten BP
I N S P	CLASS	F A C I	H O U R	Q U A R	NEW MEXICO OIL CONSERVATION COMMISSION FIELD TRIP REPORT WAYNE PRICE	
E C T	IF	LIT	5	T E R	Time of Departure 7 AM Time of Return 4	$\frac{1}{2} \frac{1}{2} \frac{1}$
I O N	LOATHON	Ŷ		H O U R S	In the space below indicate the purpose of the trip and the performed, listing wells or leases visited and any action Signature	he duties taken.
0	0	0	2	ъ	/	
					MNOCAL Pit - RANAY ALGIEN ALLST CONST CO	bit to p
					- CEMENT SOUDIFIZATION PROJEC	t
					M30 5 ATLACHED.	
					TOOK DICTURES !	
					Mileage Per Diem	Hours
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L	117	E INS		:CN	INSPECTION *	NATURE OF SPECIFIC WELL.
	H P C T R F N W O	Hous Plug Plug Well Repa Wate Wate Othe	eteo ging ging Tes ir/We rflo ir Co if	Cleanu Cleanu br brkover r Spill stamine	U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SND, 2ndry injection and production wells, water flows or pressure tests, sufface injection equipment, plugging, etc.) R = Inspections rolating to Reclamation Fund Activity tion: 0 = Other = Inspections not related to injection or The Reclamation Fund E = Indicates some-form of enforcement action taken in the field-(same-inmediately below the latter U, R or O)	OR FACILITY INSPECTED D = Drilling P = Production I = Injection C = Combined prod. inj. operations S = SMD U = Underground Storage G = General Operation P = Facility or location M = Meetings" D = Other:



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

MANUFACTURER'S NAME AND ADDRESS

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

EMERGENCY TELEPHONE NO.

SECTION I

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

CHEMICAL NAME AND SYNONYMS

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TRADE NAME AND SYNONYMS

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CHEMICAL FAMILY

FORMULA

Calcium Salts:

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(CAS #12168-85-3) (CAS #10034-77-2) (CAS #12042-78-3) (CAS #12068-35-8) (CAS #13397-24-5)

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SECTION III - PHYSICAL DATA

BOILING POINT

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VAPOR PRESSURE

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VAPOR DENSITY

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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/m³ Total Dust - 10 mg/m³

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

NOLIE

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

m³

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

	UNOCAL
	RMIA
	1004 N. BIG SPRING, SUITE 300 MIDLAND, TX 79701 915/685-7600
	<u>IPAVESIMUILIE #91157(885±677Dit</u> CONVIERESIEIEEE
то: <u></u> <i>D) L</i>	CONSERVATION DIVISION (ATT: WAYNE MIC
FAX #	
FROM:	Jim MASON
# OF PAG	ES
COMMEN	TS: WAYNE, THESE ARE THE RESULTS
	THE COLCA ALL -
OF	THE SUIT SAMPLES TAKEN ON THE
OF SOUT	H VACUUM UNIT SWO PIT. I W.

The information contained in this fax message is confidential information intended only for the use of the individual of entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original message to us at the above address via the U.S. Postal Service. Thank you.

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

01/18/95

15:42

🖾 1 915 685 6701

Sample Sites



0.000

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.	\$B-5	25'
3.	SB-6	10'
4.	\$B-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 \mathcal{T} , 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

-		TTT	EPA Test
Parameter	Value	Units	<u>Method</u>
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: SR-10			
Total Chlorides	681	ppm	
Semple ID: SR.11			
Total Chlorides	475	DOM	
	723	5.6	
Sample ID: SB-12			
Total Chlorides	723	ppm	
Sample ID: SB-13			
Total Chlorides	427	ppm	

ENVIRONMENTAL LAB OF , INC.

January 16, 1995

"Don't Treat Your Soil Like Dirt!" 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			
Iotal Petroleum Hydrocarbon	s 41	ppm	418.1/3550
Sample ID: SB-5			
Total Petroleum Hydrocarbon	s 344	ppm	
Sample ID: SB-6			
Total Petroleum Hydrocarbon	s <10.0	ppm	
Sample ID: SB-8			
Total Petroleum Hydrocarbon	is 375	ppm	
Sample ID: SB-9			
Total Petroleum Hydrocarbon	us <10.0	ppm	
Sample ID: SB-10			
Total Petroleum Hydrocarbor	18,444	ppm	
Sample ID: SB-11			
Total Petroleum Hydrocarbor	1,976 as	ppm	
Sample ID: SB-12			
Total Petroleum Hydrocarbor	ns 1,118	ppm	
Sample ID: SB-13			
Total Petroleum Hydrocarbon	ns 152	ppm	
	OC (Oua	lity Control)	
Total Petroleum Hydrocarbos Detection Limit 10.0 mm	ns 418.1 QC: 150	bbw	
	%LA		11 Link
TPH 418.1 150 p	pm 100		Kirk Robinson

P.Ø3

Page 3 D IEA COMMINSA		Detection	00	٩⁄٩٦٨
Compounds	Actual (ppm)	Limit (ppm)	<u>vc</u>	<u>(ULA</u>
Sample ID: SB-12			A 100	100
Benzene	ND	0.1	0.100	99
Toluene	ND	0.1	0.099	00
Ethylbenzene	ND	0.1	0.099	99
Xylene (m.p)	ND	0.2	0.133	98
Xvlene (0)	ND	0.1	0.078	20
Surrogate Spike	%Recovery			
a a a Trifluorotoluene	94			
Sample ID: SB-13		0.1	0 100	100
Benzene	ND	0.1	0.099	99
Tohuene	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0 195	98
Xylene (m,p)	ND	0.2	0.098	98
Xylene (0)	ND	0.1	0.024	
Surrogate Spike	%Recovery			
a a a Triffuorotoluenc	<u>97</u>			

ge 3 BTEX Continued pa

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QC= 100 ppb BTE (0)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

1 11 11

		Detection		
Compounds	Actual (ppm)	Limit (ppm)	<u>OC</u>	<u>%IA</u>
Sample ID: SB-8				
Benzene	ND	0.1	0.100	100
Tolucne	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	9 8
Surrogate Spike	%Recovery			
a a a Trifluorotoluene	96			
Sample III- SP 9				
Benzene	NT	01	0.100	100
Tomena	ND	0.1	0.099	99
Ethylhenzene		0.1	0.099	99
Sulme (m p)	ND	02	0.195	98
Xylene (a)	ND	0.1	0.098	98
Surrogate Spike	%Recovery		•••••	
a a a Trifluorotoluene	94			
HAR PARAMETER				
Sample ID: SB-10				
Benzene	ND	0.1	0.100	100
Tolucne	ND	0.1	0.099	99
Ethylbenzene	ND	0.1	0.099	99
Xylene (m,p)	ND	0.2	0.195	98
Xylene (0)	ND	0.1	0.098	98
Surrogate Spike	%Recovery			
a.a.a Triffuorotoluene	97			
Sample ID: SB-11	·	<u>0</u> 1	0.100	100
Benzene	ND	0.1	0,100	00
Toluene	ND	0.1	0.099	90
Ethylbenzene	ND	V.1 0.2	0.077 0 195	92
Xylene (m,p)	ND	0.2	0.005	90
Xylene (0)		V. 1	V.V79	20
Surrogate Spike	%Recovery			
a a a Triffuorotoluene				



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 . ت. .

		Detection		
Compounds	<u>Actual (ppm)</u>	Limit (ppm)	<u>0C</u>	<u>%IA</u>
Sample ID: SB-2			0.100	100
Benzene	ND	0.1	0.100	100
Toluene	ND	0.1	0.099	77
Rthvibenzene	ND	0.1	0.099	99
Yviene (m n)	ND	0.2	0.195	98
Xylene (0)	ND	0.1	0.098	98
Surrogate Strike	%Recovery			
a a Trifuorotoluene	90			
Saa Indisoroisista				
Sample ID: SB-5				100
Benzene	ND	0.1	0.100	100
Tohene	ND	0.1	0.099	99
T Vigen	ND	0.1	0.099	99
	ND	0.2	0.195	98
Xylene (n)	ND	0.1	0.098	98
Aylenc (0)	%Recovery			
Surreste Spice	88			
a a a Thildolonomene				
a - a a The SP 6				
Sample ID: 3B-0	ND	0.1	0.100	100
Benzene	ND	0.1	0.099	99
Toluene		0.1	0.099	99
Ethylbenzene		0.2	0,195	98
Xylene (m,p)		0.1	0.098	98
Xylene (o)				
Surrogate Spike	<u>Yor Covery</u>			
a a a Trifluorotoluene	71			

INSPECTION	CLASS IF. ICATION	F A C I L I T Y	H U P S	QUARTER HOUR	NEW MEXICO OIL CO FIELD T Name WAYNE PRICE I Time of Departure 7 AM In the space below indicate the purpup performed, listing wells or leases vi Signature	DATE $1/19/95$ Mill Time of Return 4 Date difference of the trip and the Date data any action	PM District I PM Car No. G 047 The duties taken.
				S	Took WAter SAMPLE FR CL × 35 APA AWY 5 Clen Woter - (No =	A A A A A A A A A A A A A A A A A A A	
		FINSI CRFORU Plugo Plugo Well Repa Wate Mish	ECTION IED Ing Test Test Ing for Month	ON ing Cleans rkover	Mileage Per UIC UIC RFA RFA Other Oth INSPECTION Oth UIC UIC INSPECTION Oth U = Underground Injection Control - related to injection project. f resulting from injection into a injection and production wolls. tests. surface injection equipm R = Inspections relating to Reclamation	Any inspection of or scility, or well or iny well. (SMD, 2ndry water flows or pressure wat. plugging, etc.) stion fund Activity	Hours UIC RFA Other NATURE OF SPECIFIC WELL. OR FACILITY INSPECTED D = Orilling P = Production I = Injection C = Combined prod. inj. operations S = 6WD U = Underground Storage
	W = 0 =	Wate: Othe	r Coa r	tam104	Ion 0 = Other = Inspections not related Reclamation Fund. E = Indicates some-form of enforcem field-(show-inmediately-below-t	to injection or The Mont action taken in the the detter: U, R or O}	G = General Operation P = facility or location- M = Hesting *** O = Other:

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to Appropriate District Office	Eury, Minerals and Natural Res	ources Department	Form C-103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OL CONSERVATION P.O. Box 2088	N DIVISION	WELL API NO.
DISTRICT II P.O. Drawer DD. Artesia, NM, 88210	Santa Fe, New Mexico 8	7504-2088	30-025-03151
DISTRICT III			
1000 Rio Brazos Rd., Azzec, NM 87410			6. State Oil & Gas Lease No. E-1533
SUNDRY NOT	ICES AND REPORTS ON WELL		
DIFFERENT RESEI (FORM C	AVOIR. USE "APPLICATION FOR PER -101) FOR SUCH PROPOSALS.)	MIT	7. Lease Name or Unit Agreement Name South Vacuum Unit "35" SWD
I. Type of Well: OL GAS WELL GAS	other Surfa	ce Impound	
2. Name of Operator Union Oil Company of	California dba UNOCAL		8. Well No.
3. Address of Operator P.O. Box 3100 Midla	nd, TX		9. Pool name or Wildcan South Vacuum Devonian
4. Well Location Unit Letter I; 198	0 Foot From The South	Lipe and 660	Ford Forom The East Line
Section 35	Translin 18-S Re		
	10. Elevation (Show whether	DF, RKB, RT, GR, etc.)	
	Appropriate Box to Indicate 1	Nature of Notice P	Perpert or Other Data
NOTICE OF IN	TENTION TO:		BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		REMEDIAL WORK	
	CHANGE PLANS	COMMENCE DRILLIN	
PULL OR ALTER CASING		CASING TEST AND C	
OTHER:Surface_Impoundmen	t Closure	OTHER:	Γ
12. Describe Proposed or Completed Ope work) SEE RULE 1103.	nsions (Clearly state all pertirent details, a	nd give pertinent dates, incl	luding estimated date of starting any proposed
UNOCAL proposes to d to contain levels of delineation an asses the surface and to t delineation, solidif contamination will b is achieved, then re will then be placed to ground water in t domestic water wells excess of 1000'. Th	lelineate and then remed petroleum hydrocarbons sment will be made to d the sides of the impound fication material will b be mixed with solidificate mixed with added water over the area and the st this area is approximate in the area and the di this gives the impoundment	tiate an unline at the South letermine the en- by sampling a be placed in the tion material to create an e site will be re site will be re stance to any at an overall r	d surface impoundment known Vacuum Unit SWD. During xtent of contamination below nd field testing. After e impoundment and the until proper consistency ncapsulation reaction. Soil vegitated. Vertical depth are no known private or ponds, rivers or streams is in anking score of 20 points.
	·		
I MARADY CENTRY CLARTCH INFORMATION ADOVID IN	www.and comparis to the bask of my knowledge at	HES Coordin	ator 12-5-94
SIGNATURE			BATE
(This space for State Use) ORIGIN/	AL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR		JAN 1.0 199
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			2?

NEW MEXICO		TEETON	
	FIELD TRIP REPORT	133104	
Name WAYNE PRICE		M41	- - - - - - - - - -
Time of Departure 7 AM	Time of Return	_ 4 PM	Car No. G
	1		
performed, listing wells or Ye	eses visited and any a	and the dut action taken	ies
Signature	ur		
RES: MNIOCAL Pit DEM	FRIATION - 35	- 18-5-7	SE mut I
	/9	'80' F51 660	FEL
S UNE UNIT - BUC	KEYE		
LOCATION SIGN (DA	LLAS PRODUCTION)	
LOCATION SIGN (DA SHOWS SEC 36	C-103 SHOWS) 5FC 35	?
LOCATION SIGN (DA SHOWS SEC 36, ALLSTATE (CONTRAC	(LLAS PROBUCTION C-103 SHOWS ton) - RENIEVEN) 5EC 35	? OSHA HEALT
LOCATION SIGN (DA SHOWS SEC 36, ALLSTATE (CONTRAC	(LLAS PROBUCTION C-103 SHOWS top) - REVIEND) 5EC 35 14 Sign	? osha healta
LOCATION SIGN (DA SHOWS SEC 36, ALLSTATE (CONTRAC TOUR SAMPLE ~ 10	LLAS PROBUCTION C-103 SHOWS top) - REVIEWER O'DEEP TPH) 5EC 35 14 Sign 19, 960 M	? OSHA HEALTA PM FII
LOCATION SIGN (DA SHOW'S SEC 36, ALLSTATE (CONTRAC TOUR SAMPLE ~ 10	LLAS PROBUCTION C-103 SHOWS top) - REVIEWER O'DEEP TPH BEEXO) 5EC 35 14 Sign 19, 960 M	? OSHA HEALTA PM Bog Ppm(HEA
LOCATION SIGN (DA SHOW'S SEC 36, ALLSTATE (CONTRAC TOUR SAMPLE ~ 10 60	LLAS PROBUCTION C-103 SHOWS Ctop) - REVIEWER D' DEEP TPH BEEXCOMP) 5E = 35 14 5ign 17, 960 M (PIA) 5 55 2 5	? OSHA HEALTA PM 809 PPM(HEA 2506 PPM
LOCATION SIGN (DA SHOW'S SEC 36, ALLSTATE (CONTRAC TOUR SAMPLE ~ 10 GO SAMPLE HEAVY OL FACT	LLAS PROBUCTION C-103 SHOWS Ctop) - REVIEWER OFCP TPH BEEXO OIL - CHROBIN CHROBIN CHROBIN) 5EC 35 14 Sign 17, 960 M (PIA) 3 55 2 3 4 MRC CA	? OSHA HEALTA PM 309 PPM(HEA 2506 PPM 41.BON)
LOCATION SIGN (DA SHOW'S SEC 36, ALLSTATE (CONTRAC TOUR SAMPLE ~ 10 GO SAMPLE HEAVY OL FACT DISUAL CONTAMINANT	LLAS PROBUCTION C-103 SHOWS Ctop) - REVIEWER OFCP TPH BEEXO OIL - CHROBIN CHRO) 5EC 35 14 Sign 17, 960 M (PIA) 55 2 3 4 Y MPC CA	? OSHA HEALTA PM 309 PPM(HEA 2506 PPM 4N.BON)

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H O U R S

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	Other Other	Other
TYPE INSPECTION PERFORMED	INSPECTION CLASSIFICATION	NATURE OF SPECIFIC WELL. OR FACILITY INSPECTED
H = Housekeeping P = Plugging C = Plugging Cleanup T = Well Test R = Repair/Workover F = Waterflow M = Mishap or Spill W = Water Contamination O = Other	U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SND, 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- fields(show=immediately=below=the=letter=U, R=or*O)	D = Orilling P = Production I = injection C = Combined prod. inj. operations S = SWD U = Underground Storage G = General Operation P = facility or location M = Heetings O = Others

Per Diem

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Hours

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STATE OF NEW MEXICO OIL CONSERVATION DIVISION	ANDUM OF MEETING OR	CONVERSATION	
Telephone Personal	Time 1:20 pm	Date 1/4/95	
Originating Party	· · · · · · · · · · · · · · · · · · ·	Other Parties	
JIM MASON - UNC	DCAL		
Subject Pit closure			
Discussion LEGT MESSIGE	- ANVE SEN	t gui AE Lines + <	2-103
Conclusions or Agreements			
PLEASE CALL SHA FEMEDIAtion!	EN YOU STAR	t FNUESLIGHTIM	fer/on
<u></u>		$\overline{}$	
Distribution CCI JERRY SEXTON	&igned	the hand	

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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

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to Appropriate Ciffore Control of the Control of th			KOVING A-L-63
OIL CONSERVATION DIVISION P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088		WELL API NO. 30-025-03151	
DISTRICT II P.O. Drawer DD, Artania, NM \$8210 Santa Fe, New Mexico 8	7504-2088	S. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Aziac, NM 57410		6. Sinte Oil & Gas Lanse No E-1533	
SUNDRY NOTICES AND REPORTS ON WELL (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN O DIFFERENT RESERVOIR. USE "APPLICATION FOR PER (FORM C-101) FOR SUCH PROPOSALS.)	S RPLUG BACK TO A MIT	7. Lesse Name or Uait Apr South Vacuum	Manna Nama Unit "35" SWD
OL OTHER Surface	ce 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 same or Wildow South Vacuum	Devonian
4. West Loosing Unit Letter I : 1980 Feet Prom The South	Line and660	Post Prom The	ast Line
Section 35 Township 18-S Ra	35-E	NMPM Lea	County
10. Elevation (Show whather 3860' GR	DF, RKB, RT, GR, etc.)		///////////////////////////////////////
11. Check Appropriate Box to Indicate I NOTICE OF INTENTION TO:	Nature of Notice, I SU	Report, or Other Data BSEQUENT REPORT	RT OF:
	REMEDIAL WORK		ing casing 🐳 [
		ig 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, a work) SEE RULE 1103.	nd give partinent dates, inc	inding estimated date of starting	алу регромев
UNOCAL proposes to delineate and then remed to contain levels of petroleum hydrocarbons delineation an assessment will be made to de the surface and to the sides of the impound delineation, solidification material will be contamination will be mixed with solidificat is achieved, then remixed with added water will then be placed over the area and the site to ground water in this area is approximate domestic water wells in the area and the di excess of 1000'. This gives the impoundment	iate an unline at the South etermine the e by sampling a e placed in th tion material to create an e ite will be re ly 50'. There stance to any t an overall r	d surface impound Vacuum Unit SWD. xtent of contamir nd field testing. e impoundment and until proper cons encapsulation read evegitated. Verti e are no known pri ponds, rivers or anking score of 2	Iment known During Nation below After I the Sistency Stion. Soil Ical depth Ivate or Streams is in 20 points.
I have y cartify the particulation above in true and complete to the best of my knowledge as	ud bestief.		
SIGNATURE Juny Marcon 1	HES Coordin	ator p	ATE 12-5-94
TYPE CE PERFENANCE Jimmy Mason		(915-685-7600)	ELEVICINE NO. 915/68
(This space for State Use) ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR			JAN 03_1395
	ma	C	DATE

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT DIVISION

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE 195 FE9 13 AM 8 52

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

RECEIVED

FEB 21 1995

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 Gil Conservation Division

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

DRUG FRE



February 6, 1995

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

Sample Matrix: Water

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

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

Damanatan	Volue (mgA)	20	%	Detection
Parameter	value (mg/l)	<u>QC</u>	Accuracy	Limit
Sample ID: 95012'	71040 MW-1			
Arsenic (As)	<0.1	10.7	107	Ü.1
Selenium (Sc)	<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

RECEIVED

FED 6 9 1995

UCD HOBBS



February 8, 1995

RECEIVED

FEB 0 9 1995

UCD 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

		Detection		
EPA 8270 Componds (ppm)	Value (ppm)	Limit	<u> 0C</u>	%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.



January 30, 1995

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FEB 0 9 1995

U 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

		Detection		
Compounds	Actual (ug/l)	Limit (ug/l)	<u>OC</u>	<u>%IA</u>
Sample ID: 950127104	5 MW-1			
Benzene	ND	1.0	80	80
Toluene	ND	1.0	82	82
Ethylbenzene	ND	1.0	83	83
Xviene (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

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

February 6, 1995

FEB 0 9 1995 UCD HOBBS OFFICE

RECEIVED

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	рĤ	Chlorides	Sulfates	TDS	HCO3
-	(uS/cm)	<u>(s.u.)</u>	(mg/L)	(mg/L)	<u>(mg/L)</u>	(mg/l)
	4,300	7.5	1,174	120	2,250	231
Quality Con	atrol	7.0	500	10	wed	
% Ассигасу	(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

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++	Na+	K +	
	(mg/L)	(mg/L)	(mg/L)	(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.

Robinson

P.02

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OFFICE



January 30, 1995

GCL Environmental Sciences & Engineering Mr. Gilbert VanDeventer 306 West Wali, 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

Received

FEB 0 9 1995

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		Detection	n	
Compounds	Actual (mg/kg)	Limit (m	ig/kg) QC	%IA
Sample ID: 950125115	5 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: 950125154	5 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 (0)X & 200 ppb (m,p) X. Surrogate Spike=5 ppm a, a, a Trifluorotoluene Methods: EPA SW 846-8020/5030

ND = Not Detected



January 30, 1995

Received

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

FEB 0 9 1995

UCD HOBBS OFFICE

Sample Matrix: Soil

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

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

			EPA SW-846
Parameter	Value	Units	Test Method
Sample ID: 9501251155 MW-1 (3"	7-38')		418.1/3550
Total Petroleum Hydrocarbons	4,926	mg/kg	
Sample ID: 9501251545 MW-1 (5	0-51')		
Total Petroleum Hydrocarbons	1,785	mg/kg	
	QC (Quali	ity Control)	
Total Petroleum Hydrocarbons QC: Detection Limit 10 mg/kg	145 ppm		
Result	<u>% IA</u>		.1 11

101

TPH 147 ppm

Kirk Robinson

OIL CONSERVE ON DIVISION RECEIVED 195 JAN 26 AM 8 52

STATE OF NEW MEXICO NMOCD District I

INTER-OFFICE MEMO

To file: Unocal

1/24/95

Other:

Date: Jim Mason Time: 8:15 am

Telephone call: X Meeting:

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.

11 Auce Wayne Price

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

OIL CONSERT RETAIL 195 FE + 21 H NEW MEXICO CONSERVATION DIVISION	RANDUM OF MEETING	RECEIVED FEB 2 1 1995 Environmental Bureau Oil Conservation Division OR CONVERSATION
Telephone Dersonal	Time	Date 2/1.5/75
Originating Party	4	Other Parties
JIM MASON- MNOCAL		
Subject Pit CLOSURE -	5 NAC ILUIT	Ruchene NM
1111E T 556 35	- 18.5- A35e	
Discussion CALLEN + WILL BE MONITOR FUTURE : 1	INGONBO ON 51t, WELL IN USE	ME tHAL THEY E TO COMPLETE IS tHALLATION FOR
		· · · · · · · · · · · · · · · · · · ·
Conclusions or Agreements		
PALL CEMENT/3-	5% RENTON	the AROUND 2" PUZ
PIPE TO SUL	folk Will	- TUSTALL PAD, WELL AputEcton
MAB & LOR.	K!	
		\frown
Distribution RILL OLSON	Sig	ned men in
JEMY SBY t	<i>IN</i> '	





ROGER ANDERSON Environmental Engineer

To Bill

ï

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