

3R - 68

REPORTS

DATE:

11/13/1991

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700700 Camino de Salud, NE
[505]-841-2500

WATER CHEMISTRY SECTION [505]-841-2555

December 17, 1991

Request
ID No. 022222**ANALYTICAL REPORT**
SLD Accession No. WC-91-3813*Distribution*☐ User 70320
☒ Submitter 995
☒ SLD Files

To: David Boyer
Auto. Assign from WSS Table
by Update Program (cron)
when wss > 99 & dtout < 800000
WSS's Field Off, NM 87106

From: Water Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106

Re: A water, Nonpres/No sample submitted to this laboratory on November 13, 1991

DEMOGRAPHIC DATA

<u>COLLECTION</u>		<u>LOCATION</u>
On: 8-Nov-91	By: Bro ...	Conway Water Well hobbs
At: 9:00 hrs.	In/Near: Hobbs	

ANALYTICAL RESULTS

<u>Analysis</u>	<u>Value</u>	<u>D. Lmt.</u>	<u>Units</u>
calcium	122.00		mG/L
magnesium	20.50		mG/L
potassium	4.00		mG/L
sodium	68.00		mG/L
bicarbonate	419.00		mG/L
carbonate	0.00		mG/L
chloride	93.80		mG/L
sulfate	64.20		mG/L
Ion Balance	99.90		%
total diss resid	660.00		mG/L

Reviewed By: John A. Finney 12/17/91
Supervisor, Water Chemistry Section



HEALTH AND ENVIRONMENT DEPARTMENT
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE

Phone: 841-2519

OIL CONSERVATION DIVISION

RECEIVED FOR LABORATORY SERVICES

INVOICE

Date December 12, 1991	User Identification 703201 DE:16 AM 8 52	Billing period 12/12/91
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Please forward your check, payable to: Scientific Laboratory Division, P.O. Box 4700, Albuquerque, NM 87196-4700
Purpose: SLD ANALYTICAL SERVICES

Please return PINK remittance copy with your payment.

429902 314400

NM Oil Conservation Division David Boyer
P.O. Box 2088 State Land Office Bldg.
Santa Fe, NM 87504-2088

802604

I certify that the charges herein are correct and that payment therefor has not been received.

Signature

Date

TYPE of SERVICE/ANALYSIS	NUMBER of TEST	PRICE per TEST	AMOUNT
Aromatic & Halogenated Purgeable Test #754 KMB	1 Lab #3487	130.00	130.00
			AMOUNT DUE \$ 130.00

SLD 011 Form Revised 2/91

Distribution:

White—Original

Canary—Duplicate

Pink—Remittance

Goldenrod—SLD File

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700
Albuquerque, NM 87196-4700700 Camino de Salud, NE
[505]-841-2500

ORGANIC CHEMISTRY SECTION [505]-841-2570

December 9, 1991

Request
ID No. 022223**ANALYTICAL REPORT**
SLD Accession No. OR-91-3487Distribution☐ User 70320
☒ Submitter 260
☒ SLD FilesTo: David Boyer
NM Oil Conserv. Div.
State Land Office Bldg.
P.O. Box 2088
Santa Fe, NM 87504-2088From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106

Re: A water, purgeable sample submitted to this laboratory on November 13, 1991

DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 8-Nov-91	By: Bro . . .	Conway water Well Hobbs
At: 9:00 hrs.	In/Near: Hobbs	

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable [EPA-601/2] Screen (754)

Parameter	Value	Note	MDL	Units
Halogenated Volatiles (42)	0.00	N	1.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

MDL = Minimal Detectable Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;
T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.Evidentiary Seals: Not Sealed ☒; Intact: No ☐, Yes ☐ & Broken By: _____ Date: _____Laboratory Remarks:

Twenty late eluting compounds in the C3 substituted benzene region at trace levels were detected by the photoionization detector, but not identified.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: NM SCIENTIFIC LABORATORY DIVISION	Contract: N/A
Lab Code: N/A Case No.: N/A	SAS No.: N/A SDG No.: N/A
Matrix: (soil/water) Water	Lab Sample ID: OR-91-3487
Sample wt/vol: 5.0 (g/mL) mL	SLD Batch No: 80
Level: (low/med) Low	Date Received: 11/13/91
% Moisture: not dec. N/A dec. N/A	Date Extracted: N/A
Extraction: (SepF/Cont/Sonc) N/A	Date Analyzed: 11/14/91
GPC Cleanup: (Y/N) No pH: _____	Dilution Factor: 1
	CONCENTRATION UNITS:
	(ug/L or ug/Kg): ug/L

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ANALYTICAL REPORT
 SLD Accession No. OR-91-3487
 Continuation, Page 2 of 4

This sample was analyzed for the following compounds
 using EPA Methods 601 & 602

CAS NO.	COMPOUND	CONC.	QUALIFIER
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
108-86-1	Bromobenzene	1.0	U
74-97-5	Bromochloromethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
78-93-3	2-Butanone (MEK)	5.0	U
104-51-8	n-Butylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
1634-04-4	tert-Butyl methyl ether (MTBE)	5.0	U
56-23-5	Carbon tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
67-66-3	Chloroform	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
74-95-3	Dibromomethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-4	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
590-20-7	2,2-Dichloropropane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
1006-01-5	cis-1,3-Dichloropropene	1.0	U
1006-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
98-82-8	Isopropylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U

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ANALYTICAL REPORT
 SLD Accession No. OR-91-3487
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75-09-2	Methylene chloride	1.0	U
90-12-0	1-Methylnaphthalene	1.0	U
91-57-6	2-Methylnaphthalene	1.0	U
91-20-3	Naphthalene	1.0	U
103-65-1	Propylbenzene	1.0	U
100-42-5	Styrene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
109-99-9	Tetrahydrofuran (THF)	5.0	U
108-88-3	Toluene	1.0	U
87-61-5	1,2,3-Trichlorobenzene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
75-01-4	Vinyl chloride	1.0	U
95-47-6	o-Xylene	1.0	U
N/A	p- & m-Xylene	1.0	U

Qualifier Definitions:

- B - Indicates compound was detected in the Lab Blank as well as in the sample.
- D - Indicates value taken from a secondary (diluted) sample analysis.
- E - Indicates compound concentration exceeded the range of the standard curve.
- J - Indicates an estimated value for tentatively identified compounds, or for compounds detected and identified but present at a concentration less than the quantitation limit.
- N - Indicates that more than one peak was used for quantitation.
- U - Indicates compound was analyzed for, but not detected above the concentration listed (Quantitation Limit).

QUALITY CONTROL SUMMARY FOR VOLATILES SCREEN

METHOD BLANK: A laboratory method blank was analyzed along with this sample to assure the absence of interfering contaminants

(Continued on page 4.)

ANALYTICAL REPORT
SLD Accession No. OR-91-3487
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from lab reagents, instruments, or the general laboratory environment. Unless listed below, no contaminants were detected in this blank above the reported detection limit.

COMPOUND DETECTED	CONCENTRATION (PPB)
No Compounds Detected	

SURROGATE RECOVERIES:

SURROGATE	CONCENTRATION	% RECOVERY
Fluorobenzene	50.0 ppb	115.2
2-Bromo-1-chloropropane	30.0 ppb	114.

SPIKE RECOVERY: The % recoveries for compounds in the batch spike were from 80% to 120% with the exception of the compounds listed below:

COMPOUND	CONCENTRATION	% RECOVERY
Vinyl chloride	25. ppb	68.4

Analyst:

Gary C. Eden
Gary C. Eden
Analyst, Organic Chemistry

Reviewed By:

Richard F. Meyerhein
Richard F. Meyerhein
Supervisor, Organic Chemistry Section

7/1/22/91

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION
700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106
Organic Chemistry Section - Telephone: (505) 841-2570

Request ID No. 022225-C

SLD No. 0R91-3487-C

Date Received: 11/13/91

2 User Code #: 70320		3 Request ID No.:		4 Priority Code #:		(If "1" or "2" call EID-SLD Coordinator)	
5 Facility Name: Conway domestic well-Hubbs				6 County: Lea		7 City: Hubbs	
8 State: NM							
9 Sample Location: CONWAY WATER WELL-HUBBS							
10 Collected By: Kathy Birrown		On: 9/11/08		At: 0900 hrs.		Time: 24 hr. clock 3:00 pm - 1500 hrs.	
11 Codes: 2600		12 Latitude (DDMMSS)		Longitude (DDMMSS)		2 Digit ID (if needed)	
13 Report To: David G. Boyer		14 Phone #: (505) 827-5812		15 Sampling Information:			
Address: New Mexico Oil Conservation Division		City, State Zip: Santa Fe, New Mexico 87504-2088		☐ - Grab ☐ - Compliance ☒ - Check ☐ - Monitoring ☐ - Special ☐ - Composite ☐ - Flow Proportioned ☐ - Equal Aliquot ☐ - Sample Split w/Permittee ☐ - Chain of Custody			
16 Field Data: pH: , Conductivity: umhos @ °C, Temperature: °C, Chlorine Residual: mg/l, Flow: .							
17 Sample Source: ☐ -Stream ☐ -Lake ☐ -Drain ☐ -Pool ☐ -WWTP ☒ -Well; Depth: _____ ☐ -Spring ☐ -Distribution ☐ -Point-of-Entry ☐ -Other: _____				18 Field Notes/ Sample #:			
19 Sample Type: ☒ -Water, ☐ -Soil, ☐ -Food, ☐ -Wastewater, ☐ -Other				20 Preservation:			
This form accompanies a <u>single sample</u> consisting of: <u>2</u> - septum vial(s) (volume = <u>40 ml each</u>) _____ - glass jugs (volume = _____) _____ (volume = _____)				☐ - NP No Preservation; Sample stored at room temperature ☐ - P-ice Sample stored in an ice bath (Not Frozen) ☐ - P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☐ - P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml) ☒ - Other <u>HgCl</u>			

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required.

Volatile Screens:

- ☐ - (753) Aliphatic Headspace (1-5 Carbons)
- ☒ - (754) Aromatic & Halogenated Purgeables (EPA 601 & 602)
- ☐ - (765) Mass Spectrometer Purgeables (EPA 624)
- ☐ - (766) SDWA Total Trihalomethanes (EPA 501.1)
- ☐ - (774) SDWA VOC's I [8 Regulated +] (EPA 502.2)
- ☐ - (775) SDWA VOC's II [EDB & DBCP] (EPA 504)

Other Specific Compounds or Classes:

- ☐ - () _____
- ☐ - () _____
- ☐ - () _____

Semivolatile Screens:

- ☐ - (763) Acid Extractables
- ☐ - (751) Aliphatic Hydrocarbons
- ☐ - (755) Base/Neutral Extractables (EPA 625)
- ☐ - (756) Base/Neutral/Acid Extractables (EPA 8270)
- ☐ - (758) Herbicides, Chlorophenoxy Acid
- ☐ - (759) Herbicides, Triazines
- ☐ - (760) Organochlorine Pesticides
- ☐ - (761) Organophosphate Pesticides
- ☐ - (767) Polychlorinated Biphenyls (PCB's)
- ☐ - (764) Polynuclear Aromatic Hydrocarbons
- ☐ - (762) SDWA Pesticides & Herbicides

Remarks:

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

CHAIN OF CUSTODY RECORD

Distribution: Original Accompanies Shipment; Copy to Coordinator Field File

WATER CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION
700 CAMINO DE SALUD, ALBUQUERQUE, NM 87106
Water Chemistry Section - Telephone: (505) 841-2555

Request ID No. 022222-B

SLD No. 1

Date Received:

2 User Code #: 7 0 3 2 0		3 Request ID No.:		4 Priority Code #:		(If "1" or "2", call EIO-SLD Coordinator)	
5 Facility Name: Conway domestic well				6 County: Lea		7 City: Hobbs	
8 State: NM							
9 Sample Location: CONWAY WATER WELL - HOBBS							
10 Collected By: First Last		On: / /		At: / /		hrs.	
11 Codes: Submitter WSS # Organization		12 Latitude (DDMMSS) Longitude (DDMMSS)		2 Digit ID (if needed)			
13 Report To: David G. Boyer		14 Phone #: (505) 827-5312		15 Sampling Information:			
Address: New Mexico Oil Conservation Division				Sample Purpose: ☐ Grab ☐ Composite (Composite Time Period)			
P. O. 2088				☐ Compliance ☐ Flow Proportioned			
City, State Zip: Santa Fe, New Mexico 87504-2088				☒ Check ☐ Equal Aliquot			
				☐ Monitoring ☐ Sample Split w/Permittee			
				☐ Special ☐ Chain of Custody			
16 Field Data: pH: , Conductivity: umhos @ °C, Temperature: °C, Chlorine Residual: mg/l, Flow:							
17 Sample Source: ☐ Stream ☒ Well; Depth: ☐ Lake ☐ Spring ☐ Drain ☐ Distribution ☐ Pool ☐ Point-of-Entry ☐ WWTP ☐ Other:				18 Field Notes/ Sample #:			
19 Sample Type: ☒ Water, ☐ Soil, ☐ Food, ☐ Wastewater, ☐ Other				20 Preservation: ☐ WNF Water Not Preserved; Filtered ☒ WNN Water Not Preserved; Not Filtered ☐ WPF Water Preserved with Sulfuric Acid (H2SO4); Filtered ☐ WPN Water Preserved with Sulfuric Acid; Not Filtered ☐ WNL Water Not Preserved in Field; Please Add H2SO4 at Lab ☐ ICE Water Iced ☐ Other			
This form accompanies a <u>single sample</u> consisting of: 1 - 1 liter cubitainers (1 quart) 4 - 4 liter cubitainers (1 gallon)							
21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analyses required.							
Group Analyses:				(859) SWQB SS Anion - Cation Group +			
☐ (854) SDWA Group II (Nitrate as N)				☐ (868) SWQB NPS Anion, Cation, Physical + TSS			
☐ (861) SDWA Group III (Fluoride)				☐ (869) SWQB Nutrient Analysis Group +			
☐ (860) SDWA Complete Secondary				☒ (867) Major Anions & Cations			
Cations:		Physical Parameters:		Surface and Waste Water:			
☐ Calcium (as Ca)		☐ Color		☐ Biological Oxygen Demand			
☐ Magnesium (as Mg)		☐ Conductance (Micromhos @ 25 °C)		☐ Total Suspended Solids			
☐ Potassium (as K)		☐ Odor		☐ Chemical Oxygen Demand			
☐ Sodium (as Na)		☐ pH		☐ Total Organic Carbon			
☐ Total Hardness (as CaCO3)		☐ Surfactants		☐ Cyanide			
Anions:		☐ Total Dissolved Solids		Nutrients:			
☐ Alkalinity (as CaCO3)		☐ Turbidity		☐ Nitrate + Nitrite (as N)			
☐ Bicarbonate (as HCO3)		Other:		☐ Ammonia (as N)			
☐ Carbonate (as CO3)		☐		☐ Total Kjeldahl (as N)			
☐ Chloride (as Cl)		☐		☐ Nitrite (as N)			
☐ Fluoride (as F)		☐		☐ Orthophosphate (as P)			
☐ Sulfate (as SO4)		☐		☐ Total Phosphorus (as P)			
☐ Ion Charge Balance		☐					
Remarks:							

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2570

Request ||| |||
ID No. 022223-C

SLD No. 1

Date
Received:

2 User Code #: 7103210		3 Request ID No.:		4 Priority Code #:		5 Facility Name: Conway domestic well - Hobbs		6 County: Lea		7 City: Hobbs		8 State: NM	
9 Sample Location: CONWAY, WATER WEL - HOBBS													
10 Collected By: Kathy Brown On: 9/11/08 At: 0900 hrs. First Last Date: (YY/MM/DD) Time: 24 hr. clock 3:00 pm = 1500 hrs.													
11 Codes: Submitter WSS # Organization						12 Latitude (DDMMSS) Longitude (DDMMSS) 2 Digit ID (if needed)							
13 Report To: David G. Boyer Address: New Mexico Oil Conservation Division P. O. Box 2088 City, State Zip: Santa Fe, New Mexico 87504-2088						14 Phone #: (505) 827-5812							
15 Sampling Information: Sample Purpose: ☐ - Grab ☐ - Composite (Composite Time Period) ☐ - Compliance ☐ - Flow Proportioned ☒ - Check ☐ - Equal Aliquot ☐ - Monitoring ☐ - Sample Split w/Permittee ☐ - Special ☐ - Chain of Custody													
16 Field Data: pH: , Conductivity: umhos @ °C, Temperature: °C, Chlorine Residual: mg/l, Flow:													
17 Sample Source: ☐ - Stream ☒ - Well; Depth: ☐ - Lake ☐ - Spring ☐ - Drain ☐ - Distribution ☐ - Pool ☐ - Point-of-Entry ☐ - WWTP ☐ - Other:						18 Field Notes/ Sample #:							
19 Sample Type: ☒ - Water, ☐ - Soil, ☐ - Food, ☐ - Wastewater, ☐ - Other This form accompanies a <u>single sample</u> consisting of: 2 - septum vial(s) (volume = <u>40 ml each</u>) - glass jugs (volume =) (volume =)						20 Preservation: ☐ - NP No Preservation; Sample stored at room temperature ☐ - P-ice Sample stored in an ice bath (Not Frozen) ☐ - P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☐ - P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml) ☒ - Other <u>HgCl</u>							
21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required.													
Volatile Screens: ☐ - (753) Aliphatic Headspace (1-5 Carbons) ☒ - (754) Aromatic & Halogenated Purgeables (EPA 601 & 602) ☐ - (765) Mass Spectrometer Purgeables (EPA 624) ☐ - (766) SDWA Total Trihalomethanes (EPA 501.1) ☐ - (774) SDWA VOC's I [8 Regulated +] (EPA 502.2) ☐ - (775) SDWA VOC's II [EDB & DBCP] (EPA 504) Other Specific Compounds or Classes: ☐ - () ☐ - () ☐ - ()						Semivolatile Screens: ☐ - (763) Acid Extractables ☐ - (751) Aliphatic Hydrocarbons ☐ - (755) Base/Neutral Extractables (EPA 625) ☐ - (756) Base/Neutral/Acid Extractables (EPA 8270) ☐ - (758) Herbicides, Chlorophenoxy Acid ☐ - (759) Herbicides, Triazines ☐ - (760) Organochlorine Pesticides ☐ - (761) Organophosphate Pesticides ☐ - (767) Polychlorinated Biphenyls (PCB's) ☐ - (764) Polynuclear Aromatic Hydrocarbons ☐ - (762) SDWA Pesticides & Herbicides							
Remarks:													