3R - 79

REPORTS

DATE:

11/17/1988

Mobil Exploration & Producing U.S. Inc.

November 17, 1988

P.O. BOX 5444
DENVER, COLORADO 80217-5444

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
310 Old Santa Fe Trail, Rm 206
Santa Fe, NM 87503

ATTN: Mr David Boyer

7.58.3.6.4 GROUNDWATER
INVESTIGATION PLAN
THOMAS #1 WELLSITE
SAN JUAN COUNTY, NM

Dear Mr. Boyer:

As you requested, we have prepared a groundwater monitoring plan for the Thomas #1 wellsite. The proposed plan is attached for your consideration.

To date we have used the technical services of Mobil Research and Development Corporation, Research Services Division. These folks have considerable experience in geohydrologic investigations similar to this one. In particular, Mr. Chuck Glore has worked with you and I on other groundwater and surface water investigations in northwestern New Mexico. At this point, we plan to continue to use their services and to supplement this support with local consultants or contractors as necessary.

After the Oil Conservation Division has reviewed the proposed plan, please contact me to discuss implementation. For your convenience I can be reached at (303) 298 2805 and am only a one hour plane ride away from face to face discussions.

dw4/nm/thom1dft.plnp2/gac

G.A. "Greg" Cresswell

cc: E.T. Barber -Bloomfield
E.F. Glass -9D
C.R. Glore -Paulsboro

GROUND WATER INVESTIGATION PLAN FOR THE THOMAS WELL NO. 1 BLOOMFIELD, NEW MEXICO

From the observations made during the field investigation performed on October 18, 1988 it appears that the ground water gradient is generally southwest, following the prehistoric channel of the San Juan River. The transmissivity of the sediments in alluvium of this type is generally quite high, allowing the movement of large volumes of water through the site area. Any contamination in or on the ground water migrating outward from the gas well site would follow the same flow path as the water. The dilution capacity of this hydrogeologic regime is very high. The test pits already excavated indicate that there is probably no significant soil contamination above the water table in the area of the well. However, the dark gray, approximately 1 foot thick layer that is found just below the water table indicates that there has been hydrocarbon contamination at that level for some time. The full, areal extent of this layer is not known at this time, but it is a potential source of dissolved hydrocarbons in the ground water.

Determination of the extent of contaminated soil could be done by a soil gas survey. However, at this site the fact that the majority of the contamination appears to be below the water table could lead to false readings.

Based on these observations and discussions of the requirements of the New Mexico Oil and Gas Conservation Division's (NMOGCD) for ground water quality investigations at this site, the following investigation plan is recommend:

1. Install two monitoring wells approximately 300 yards southwest (downgradient) of the condensate collection tank as shown on the enclosed topographic map (Figure 1).

2. Install one monitoring well upgradient of the condensate collection tank approximately 120 feet eastsoutheast (between pits 6 and 7) as shown on the enclosed well location plan (Figure 2).

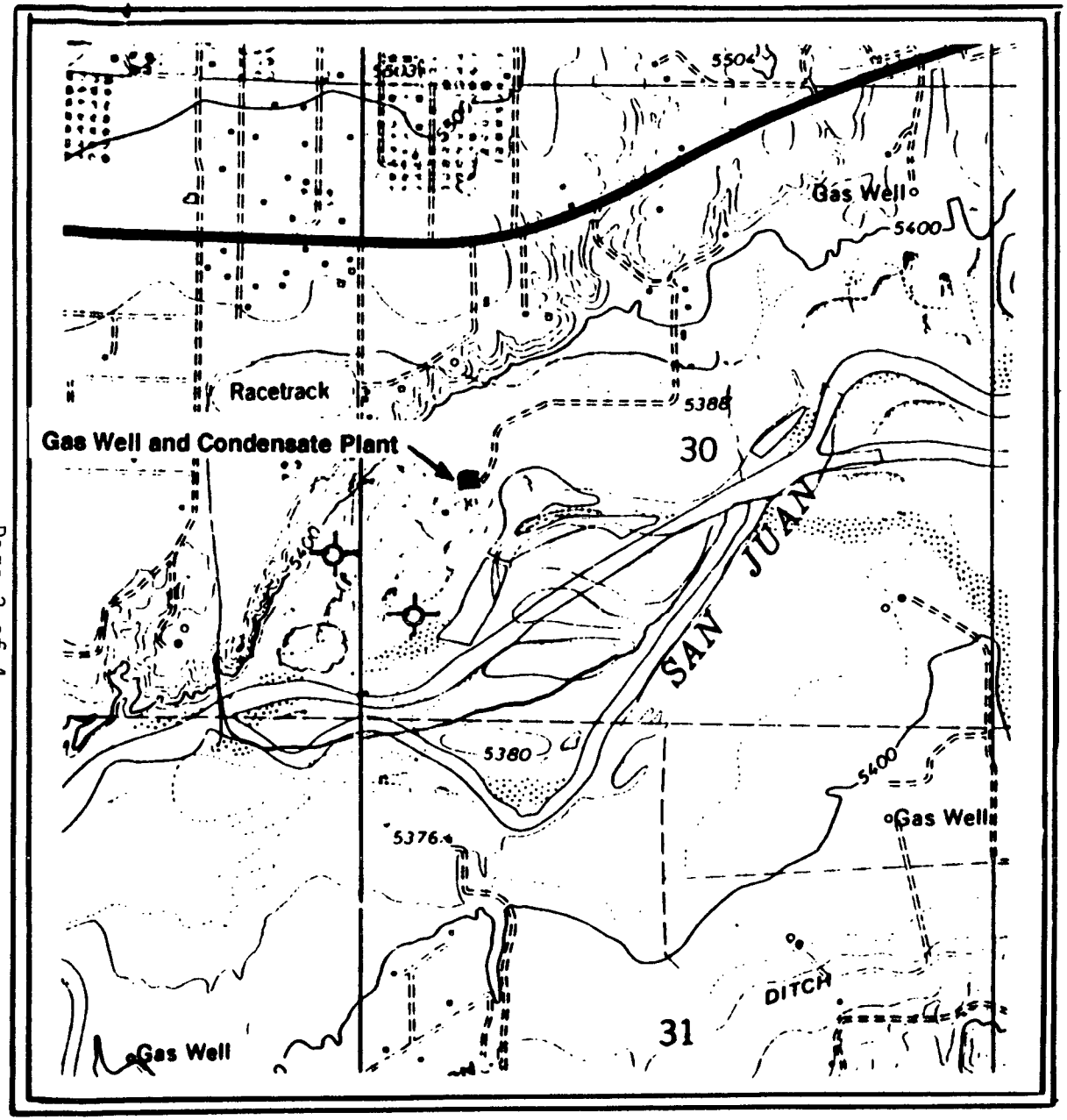
Each of these wells should be set such that the well screen extends from about 1 foot above the water table to a depth of approximately 5 feet below it. The wells can be installed using a backhoe for excavation of the well if the alluvium will stay open in the pit long enough for well installation. Otherwise it will probably be necessary to install them using a cable tool or air-hammer drilling rig. Normally an auger rig is used for well installation, but the numerous cobbles and boulders observed in the existing pits will render an auger ineffective. After

installation each well should be fully developed and the development water should be contained onsite and tested for the dissolved hydrocarbon components benzene, toluene, xylene and ethylbenzene (BTXE), prior to disposal. If these components are not present in concentrations greater than the allowable limits it can be disposed of locally. Otherwise, it must be disposed of according to existing regulations. After development, the wells should be allowed to stabilize prior to sampling.

It is our understanding that the NMOGCD's concern is that BTXE dissolved in the ground water at the well site may be entering the nearby surface waters in concentrations that exceed their standards. The investigation program that we have recommended will determine if this is the case. If BTXE concentrations above acceptable limits are found in any of these wells, other investigations, monitoring and/or remediation measures may have to be implemented.

C. R. Glore
Associate

October 28, 1988



LEGEND

Proposed Monitoring Well Location

Figure 1. WELL LOCATION PLAN

Thomas No. 1 Gas Well, Bloomfield, New Mexico

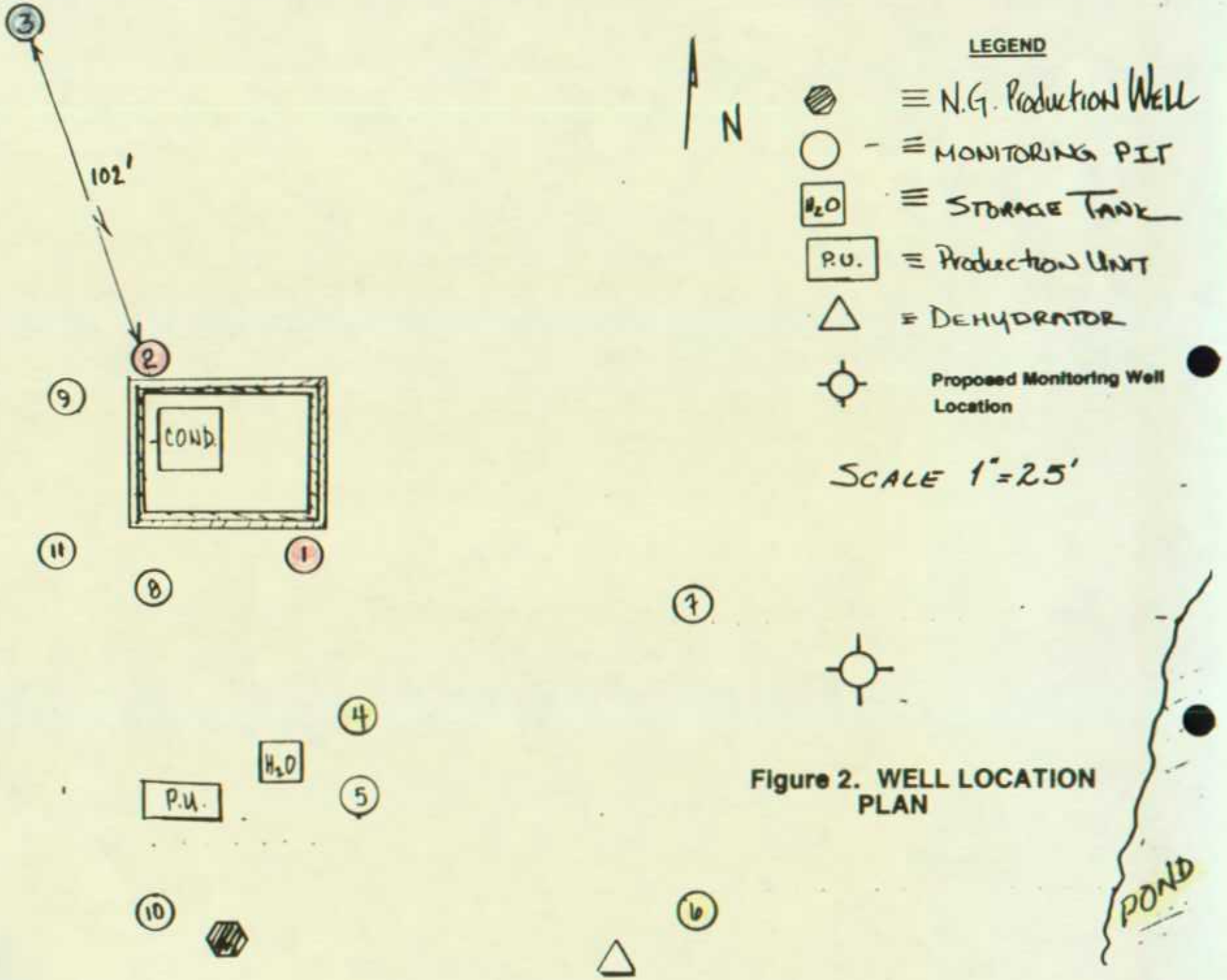


Figure 2. WELL LOCATION PLAN

Thomas No. 1 Gas Well, Bloomfield, New Mexico

SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

88-1141-C

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

S.L.D. No. OR-
DATE REC. 7/18/88
PRIORITY 3
PHONE(S): 827-5812

wpu 754

COLLECTION CITY: Bloomfield ; COUNTY: San Juan

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) 880713 1140

LOCATION CODE: (Township-Range-Section-Tracts) 29N+11W+30+31 D (10N06E24342)

USER CODE: 82235 SUBMITTER: David Boyer CODE: 2610

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER:

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ____
Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- ☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. *Whenever possible list specific compounds suspected or required.*

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (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: _____

FIELD DATA:

pH= ~ ; Conductivity= 2550 umho/cm at 18 °C; Chlorine Residual= _____ mg/l

Dissolved Oxygen= _____ mg/l; Alkalinity= _____ mg/l; Flow Rate _____ _____/_____

Depth to water 23 ft.; Depth of well _____ ft.; Perforation Interval _____ - _____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)
Mobil Thomes #1, Pit #1, Black film on surface, Spl. C
smell, slight H/C odor

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D.F. Boyer Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from D. Boyer to Judi R-Hill
at (location) SLD-ALB on 7/18/88 - 13:00 and that
the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ OR Seals Intact: Yes ☒ No ☐
Signatures D.F. Boyer Judi R-Hill

For OCD use: Date owner notified: _____ Phone or Letter? Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 1141

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (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

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
~~aromatic purgeables~~		aromatic purgeables	
~~benzene~~	~~1030~~	benzene	920
~~toluene~~	~~315~~	toluene	5590
~~ethylbenzene~~	~~210~~	ethylbenzene	570
~~p + m - xylene~~	~~800~~	p + m - xylene	5140
~~o - xylene~~	~~145~~	o - xylene	490
		halogenated purgeables	N.D.
* DETECTION LIMIT * ✱	~~50 ppb~~	+ DETECTION LIMIT + †	5 ppb

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed ☐ Intact: Yes ☑ No ☐. Seal(s) broken by: Mary C. Glen date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 7/22/88. Analyst's signature: Mary C. Glen

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: K Meyerhen

459
WNN

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7/26/88 | LAB NO. WC-2697 | USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE 88/07/13 | SITE INFORMATION ►

Collection TIME 1140

Collected by — Person/Agency Boyer /OCD

Sample location Pit #1, Mobil Thomas #1

Collection site description

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/well code 29N/11W, 30.31

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Pump ☒ Dipped ☐ Tap	Water level	Discharge	Sample type Grab
pH (00400) —	Conductivity (Uncorrected) 2550 µmho	Water Temp. (00010) 18 °C	Conductivity at 25°C (00094) µmho

Field comments Black Film on surface. Septic smell and slight H/C odor

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	3353	µmho	8/12
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: lab pH	7.84		8/15
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NF, NA Sample:

			Date Analyzed
☒ Calcium	416	mg/l	8/02
☒ Potassium	5	mg/l	7/29
☒ Magnesium	118.3	mg/l	8/02
☒ Sodium	300	mg/l	7/29
☒ Bicarbonate	450	mg/l	8/15
☒ Chloride	183	mg/l	8/3
☒ Sulfate	1390	mg/l	8/3
☒ Total Solids	2920	mg/l	8/9
☒ Br	2.89	mg/l	8/24
☐			
☒ Cation/Anion Balance			

Analyst | Date Reported 8/30/88 | Reviewed by

Laboratory remarks
184

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	20.76	416.00	<3.0	HC03	7.37	450.00	<1.0
Mg	9.69	118.00	<0.3	SO4	28.96	1390.00	<10.0
Na	16.88	388.00	<10.0	CL	5.16	183.00	<5.0
K	0.13	5.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	47.46	927.00			41.50	2023.00	

Total Dissolved Solids= 2920
Ion Balance = 114.36%

WC No. = 8802697
Date out/By CJ 8/30/88

SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

88-1144-C

WPH 754

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

S.L.D. No. OR-
DATE REC. 7/18/88
PRIORITY 3
PHONE(S): 827-5812

COLLECTION CITY: Bloomfield ; COUNTY: San Juan

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) |8|8|0|7|1|3|1|1|5|5|

LOCATION CODE: (Township-Range-Section-Tracts) |2|9|N+|1|1|W+|3|0+|3|1|0| (10N06E24342)

USER CODE: |8|2|2|3|5| SUBMITTER: David Boyer CODE: |2|6|0|

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER:

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- [X] P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes
- [ ] (774) SDWA VOC's I (8 Regulated +)
- [ ] (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables
- [ ] (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: _____

RECEIVED
JUL 18 1988
OIL CONSERVATION DIVISION

FIELD DATA:

pH= 7 ; Conductivity= 5500 umho/cm at 20 °C; Chlorine Residual= _____ mg/l

Dissolved Oxygen= _____ mg/l; Alkalinity= _____ mg/l; Flow Rate _____ ____/____

Depth to water ~3 ft.; Depth of well _____ ft.; Perforation Interval ____-____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Mobil Thomas #1, Pit #2 Brown water, covered by film, slight H/C odor

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D. Boyer Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from D. Boyer to JUDI R-HILL

at (location) SLD-ALB on 7/18/88 - 13:00 and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] OR Seals Intact: Yes [ ] No [ ]

Signatures D. Boyer Judi R-Hill

For OCD use: Date owner notified: _____ Phone or Letter? Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 1144

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (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

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic purgeables			
benzene	4600		
toluene	9900		
ethylbenzene	N.D.		
p+m-xylene	5500		
o-xylene	570		
halogenated purgeables	N.D.		
* DETECTION LIMIT * *	50 ppb	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed ☐ Intact: Yes ☑ No ☐. Seal(s) broken by: Mary C. Eden date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 7/22/88. Analyst's signature: Mary C. Eden

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: K Meyerhen

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

659 WNN

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7/18/88 LAB NO. WC-2696

USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE 8/07/88

Collection TIME 1155

Collected by — Person/Agency Boyer /OCD

SITE INFORMATION ► Sample location Pit #2, Mobil Thomas #1

Collection site description

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/well code 29N, 11W, 30, 31

Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level	Discharge	Sample type Grab
pH (00400) 7	Conductivity (Uncorrected) 5500 µmho	Water Temp. (00010) 20 °C	Conductivity at 25°C (00094) µmho

Field comments Brown water covered by film, slight H/C odor

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	6866	µmho	8/12
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	7.58		8/9
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From ~~NA~~ NA Sample:

			Date Analyzed
☒ Calcium	560	mg/l	8/02
☒ Potassium	13	mg/l	7/29
☒ Magnesium	176	mg/l	8/02
☒ Sodium	1175	mg/l	7/29
☒ Bicarbonate	839	mg/l	8/9
☒ Chloride	222	mg/l	8/3
☒ Sulfate	2800	mg/l	8/4
☒ Total Solids	6150	mg/l	8/9
☒ ~~Ba~~	4.98	Mg/l	8/24
☐			
☒ Cation/Anion Balance			

Analyst | Date Reported 8/30/88 | Reviewed by

Laboratory remarks
Lll

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	27.94	560.00	<3.0	HC03	13.75	839.00	<1.0
Mg	14.54	177.00	<0.3	SO4	58.33	2800.00	<10.0
Na	51.11	1175.00	<10.0	CL	6.26	222.00	<5.0
K	0.33	13.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	93.92	1925.00			78.35	3861.00	

Total Dissolved Solids= 6150

Ion Balance = 119.88%

WC No. = 8802696

Date out/By [signature] 8/3/88

SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

88-1148-C

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

S.L.D. No. OR-
DATE REC. 7/18/88
PRIORITY 3
PHONE(S): 827-5812

WPY 754

COLLECTION CITY: Bloomfield ; COUNTY: San Juan

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) |8|8|0|7|1|3|1|2|1|5|

LOCATION CODE: (Township-Range-Section-Tracts) |2|9|N+|1|1|W+|3|0+|3|1|0| (10N06E24342)

USER CODE: |8|2|2|3|5| SUBMITTER: David Boyer CODE: |2|6|0|

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER:

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- [X] P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes
- [ ] (774) SDWA VOC's I (8 Regulated +)
- [ ] (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables
- [ ] (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: _____

FIELD DATA:

pH= 7 ; Conductivity= 460 umho/cm at 22 °C; Chlorine Residual= _____ mg/l

Dissolved Oxygen= _____ mg/l; Alkalinity= _____ mg/l; Flow Rate _____ ____/____

Depth to water ~3 ft.; Depth of well _____ ft.; Perforation Interval ____-____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Mobil Thomas #1, Pit #3 Dug Pit in field
Clear, No odor

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): W. Boyer Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from D. Boyer to JUDI R-HILL

at (location) SLD - ALB on 7/18/88 - 13:00 and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] OR Seals Intact: Yes [X] No [ ]

Signatures W. Boyer _____

For OCD use: Date owner notified: _____ Phone or Letter? Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 1148

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (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

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic purgeables	N.D.		
halogenated purgeables	N.D.		
* DETECTION LIMIT *	.5 ug/L	+ DETECTION LIMIT +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed ☐ Intact: Yes ☑ No ☐. Seal(s) broken by: Gary C. Ellen date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 7/22/88. Analyst's signature: Gary C. Ellen

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: K Meyer Lee

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

459 WNW

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7/18/88 LAB NO. WC-2692 USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE 06/07/13

Collection TIME 12:15

SITE INFORMATION ► Sample location Pit #3, Mobil Thomas #1

Collection site description

Collected by — Person/Agency Boyer /OCD

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/well code 29N/11W 30.31

Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level	Discharge	Sample type Grab
pH (00400) 7	Conductivity (Uncorrected) 4650 µmho	Water Temp. (00010) 22 °C	Conductivity at 25°C (00094) µmho

Field comments Pit in field, clear no odor

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	5817	µmho	8/12
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	8.14		8/9
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From WC, NA Sample:

			Date Analyzed
☒ Calcium	432	mg/l	8/02
☒ Potassium	15	mg/l	7/29
☒ Magnesium	206	mg/l	8/02
☒ Sodium	981	mg/l	7/29
☒ Bicarbonate	485	mg/l	8/9
☒ Chloride	41.3	mg/l	8/1
☒ Sulfate	3350	mg/l	8/3
☒ Total Solids	5540	mg/l	8/9
☒ Ba	1.091	ug/l	8/24
☐			
☒ Cation/Anion Balance			

Analyst | Date Reported 8/30/88 | Reviewed by

Laboratory remarks 55

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

CATIONS			DET.	ANIONS			DET.
ANALYTE	MEQ.	PPM	LIMIT	ANALYTE	MEQ.	PPM	LIMIT
Ca	21.56	432.00	<3.0	HC03	7.95	485.00	<1.0
Mg	16.94	206.20	<0.3	SO4	69.79	3350.00	<10.0
Na	42.67	981.00	<10.0	CL	16.11	571.00	<5.0
K	4.04	158.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	85.20	1777.20			93.85	4406.00	

Total Dissolved Solids= 5540

Ion Balance = 90.79%

WC No. = 8802692

Date out/By 5/30/88

SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

88-1143-C

WDW 154

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

S.L.D. No. OR-_____
DATE REC. 7/18/88
PRIORITY 3
PHONE(S): 827-5812

COLLECTION CITY: Bloomfield ; COUNTY: San Juan

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) |8|8|0|7|1|3|1|1|1|0

LOCATION CODE: (Township-Range-Section-Tracts) |2|9|N+|1|1|W+|3|0+|3|1|0| (10N06E24342)

USER CODE: |8|2|2|3|5| SUBMITTER: David Boyer CODE: |2|6|0|

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER: _____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- [X] P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes
- [ ] (774) SDWA VOC's I (8 Regulated +)
- [ ] (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables
- [ ] (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: _____

FIELD DATA:

pH= ~ ; Conductivity=1450 umho/cm at 17.5 °C; Chlorine Residual=_____ mg/l

OCT 27 1988

Dissolved Oxygen=_____ mg/l; Alkalinity=_____ mg/l; Flow Rate_____ ____/____

Depth to water _____ ft.; Depth of well_____ ft.; Perforation Interval _____-_____ ft.; Casing:_____

Sampling Location, Methods and Remarks (i.e. odors, etc.)
Pit #4, Mobil Thomas #1 Dup Pit grayish, H2O, Strong Septic odor, Salmon valley, surface

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D. R. Boyer Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from D. BOYER to JUDI R-HILL

at (location) SLD - ALB on 7/18/88 - 13:00 and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] OR Seals Intact: Yes [ ] No [ ]

Signatures D. R. Boyer Judi R-Hill

For OCD use: Date owner notified:_____ Phone or Letter? Initials_____

ANALYSES PERFORMED

LAB. No.: OR- 1143

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (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

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic purgeables			
benzene	T.R.		
toluene	50		
p + m - xylene	295		
o - xylene	40		
ethyl benzene	N.D.		
halogenated purgeables	N.D.		
* DETECTION LIMIT *	25 ug/L	+ DETECTION LIMIT +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed ☐ Intact: Yes ☑ No ☐. Seal(s) broken by: Mary C. Glass date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 7/22/88. Analyst's signature: Mary C. Glass

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: K Meyerhen

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7/16/88 LAB NO. WC-2698

USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE 88/07/13

Collection TIME 1110

SITE INFORMATION ► Sample location Pit #4, Mobil Thomas #1

Collection site description

Collected by — Person/Agency Boyer /OCD

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/well code 29N, 11W, 30, 3

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Pump ☒ Dipped ☐ Tap	Water level	Discharge	Sample type Grab
pH (00400) —	Conductivity (Uncorrected) 1450 µmho	Water Temp. (00010) 17.5 °C	Conductivity at 25°C (00094) µmho

Field comments Drug Pit, 3' to water, grayish H2O, strong septic odor, scum on surface

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1932	µmho	8/12
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	8.01		8/15
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From ☒ NF, NA Sample:

			Date Analyzed
☒ Calcium	296	mg/l	8/02
☒ Potassium	5	mg/l	7/29
☒ Magnesium	50.0	mg/l	8/02
☒ Sodium	140	mg/l	7/29
☒ Bicarbonate	394	mg/l	8/15
☒ Chloride	17.5	mg/l	8/3
☒ Sulfate	780	mg/l	8/3
☒ Total Solids	1612	mg/l	8/9
☒ Br	1.88	mg/l	8/24
☐			
☒ Cation/Anion Balance			

Analyst | Date Reported 8/30/88 | Reviewed by CO

Laboratory remarks 22

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

CATIONS			DET.	ANIONS			DET.
ANALYTE	MEQ.	PPM	LIMIT	ANALYTE	MEQ.	PPM	LIMIT
Ca	14.77	296.00	<3.0	HC03	6.46	394.00	<1.0
Mg	4.11	50.00	<0.3	SO4	16.25	780.00	<10.0
Na	6.09	140.00	<10.0	CL	0.49	17.50	<5.0
K	0.13	5.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	25.09	491.00			23.20	1191.50	

Total Dissolved Solids= 1612

Ion Balance = 108.16%

WC No. 8802698

Date out/By 8/30/88

SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

88-1146-C

WPY 754

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

S.L.D. No. OR-
DATE REC. 7/18/88
PRIORITY 3
PHONE(S): 827-5812

COLLECTION CITY: Bloomfield ; COUNTY: San Juan

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) |8|8|0|7|1|3|1|0|3|5|

LOCATION CODE: (Township-Range-Section-Tracts) |2|9|N|+|1|1|W|+|3|0|+|3|1|0| (10N06E24342)

USER CODE: |8|2|2|3|5| SUBMITTER: David Boyer CODE: |2|6|0|

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER:

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ____
Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- [X] P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes
- [ ] (774) SDWA VOC's I (8 Regulated +)
- [ ] (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables
- [ ] (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: _____

FIELD DATA:

pH= 7 ; Conductivity= 1020 umho/cm at 16.5 °C; Chlorine Residual= _____ mg/l

Dissolved Oxygen= _____ mg/l; Alkalinity= _____ mg/l; Flow Rate _____ ____/____

Depth to water ~3 ft.; Depth of well _____ ft.; Perforation Interval ____-____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)
Mobil Thomas #1, P.I #6 Dug Pit, Clear Water

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D.A. Boyer Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from D. Boyer to JUDI R-HILL
at (location) SLD-ALB on 7/18/88 - 13:00 and that
the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] OR Seals Intact: Yes [X] No [ ]
Signatures D.A. Boyer Judi R-Hill

For OCD use: Date owner notified: _____ Phone or Letter? Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 1196

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (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

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic purgeables	see remarks		
benzene	N.D.		
Toluene	5.6		
ethylbenzene	N.D.		
p + m - xylene	5.7		
o - xylene	5.6		
halogenated purgeables	N.D.		
* DETECTION LIMIT * ✱	.5 ppb	+ DETECTION LIMIT + †	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: Seven compounds in the aromatic screen region at 1-5 ppb and nine late eluting compounds in the C3 substituted benzene region at 1-5 ppb detected by the photoionization detector but not identified.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed ☐ Intact: Yes ☑ No ☐. Seal(s) broken by: Mary C. Eden date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: ~~July 1988~~ 7/22/88 Analyst's signature: Mary C. Eden

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: K Meyerhen

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

d59 WNN

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7/18/88	LAB NO. WC-2694	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 88/07/13	SITE INFORM-ATION ►	Sample location Pit #6, Mobil Thomas #1	
Collection TIME 1035		Collection site description	
Collected by — Person/Agency Boyer /OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/well code 29N, 11W, Sec 30
Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level	Discharge	Sample type GRAB
pH (00400) 7	Conductivity (Uncorrected) 1020 µmho	Water Temp. (00010) 16.5°C	Conductivity at 25°C (00094) µmho
Field comments Dug Pit, ~3FT to water, clear water			

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1371	µmho	8/12
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	8.25		8/9
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NE, NA Sample:

			Date Analyzed
☒ Calcium	140 ~~208~~ 140	mg/l	8/02
☒ Potassium	4	mg/l	7/29
☒ Magnesium	~~68~~ 54.9	mg/l	8/02
☒ Sodium	87	mg/l	7/29
☒ Bicarbonate	465	mg/l	8/9
☒ Chloride	12.8	mg/l	8/4
☒ Sulfate	338	mg/l	8/3
☒ Total Solids	950	mg/l	9/2
☒ ~~CO3~~ NO3			
☒ Br	1.13 µg/l		8/24
☒ Cation/Anion Balance			

Analyst	Date Reported	Reviewed by
	8/30/88	CJ

Laboratory remarks
20

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	6.99	140.00	<3.0	HC03	7.62	465.00	<1.0
Mg	4.01	48.80	<0.3	SO4	7.04	338.00	<10.0
Na	3.78	87.00	<10.0	CL	0.36	12.80	<5.0
K	0.10	4.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	14.88	279.80			15.02	815.80	

Total Dissolved Solids= 950

Ion Balance = 99.05%

2694 C.S

WC No. = 8801~~679~~

Date out/By 9/12/88

SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

88-1145-C

WPU 754

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

S.L.D. No. OR-
DATE REC. 7/18/88
PRIORITY 3
PHONE(S): 827-5812

COLLECTION CITY: Bloomfield ; COUNTY: San Juan

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) |8|8|0|7|1|3|1|2|3|0|

LOCATION CODE: (Township-Range-Section-Tracts) |2|9|N+|1|1|W+|3|0+|3|1|0| (10N06E24342)

USER CODE: |8|2|2|3|5| SUBMITTER: David Boyer CODE: |2|6|0|

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER:

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- [X] P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes
- [ ] (774) SDWA VOC's I (8 Regulated +)
- [ ] (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- [ ] ____
- [ ] ____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables
- [ ] (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: ____

FIELD DATA:

pH= 7 ; Conductivity= 820 umho/cm at 28 °C; Chlorine Residual= ____ mg/l

Dissolved Oxygen= ____ mg/l; Alkalinity= ____ mg/l; Flow Rate ____ ____/____

Depth to water ____ ft.; Depth of well ____ ft.; Perforation Interval ____ - ____ ft.; Casing: ____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Mobil Thomas #1, Fish pond at log opposite dehydrator

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D Boyer Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from D Boyer to JUDY R-HILL

at (location) SLD-ACS on 7/18/88 - 13:00 and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] OR Seals Intact: Yes [X] No [ ]

Signatures D Boyer Judy R-Hill

For OCD use: Date owner notified: ____ Phone or Letter? Initials ____

ANALYSES PERFORMED

LAB. No.: OR- 1145

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (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

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatics purgeables			
benzene	.8		
Toluene	202		
ethylbenzene	N.D.		
p+m-xylene	1.5		
o-xylene	N.D.		
halogenated purgeables	N.D.		
* DETECTION LIMIT * *	.5 ppb	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed ☐ Intact: Yes ☑ No ☐. Seal(s) broken by: Stacy C. Eden date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 7/22/88. Analyst's signature: Stacy C. Eden

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: K Meyerhen

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 — (505) 841-2555

459 WNN

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7/18/88	LAB NO. WC-2695	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 8/07/88	SITE INFORM-ATION ►	Sample location Fish pond at Mobil Thomas #1	
Collection TIME 1230		Collection site description	
Collected by — Person/Agency Boyer /OCD			

SEND FINAL REPORT TO ►

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/well code 29N, 11W, 30.31
Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level —	Discharge —	Sample type Grab
pH (00400) 7	Conductivity (Uncorrected) 820 µmho	Water Temp. (00010) 28 °C	Conductivity at 25°C (00094) µmho
Field comments Sample from Log opposite dehydrator			

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	876	µmho	8/12
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	8.12		8/9
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N + , Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NS, NA Sample:			Date Analyzed
☒ Calcium	124	mg/l	8/02
☒ Potassium	2	mg/l	7/29
☒ Magnesium	37.8	mg/l	8/02
☒ Sodium	40	mg/l	7/29
☒ Bicarbonate	166	mg/l	8/9
☒ Chloride	<5	mg/l	8/3
☒ Sulfate	313	mg/l	8/3
☒ Total Solids	640	mg/l	8/9
☒ Br	0.64	mg/l	8/24
☐			
☒ Cation/Anion Balance			

Analyst	Date Reported	Reviewed by
	8/30/88	CO

Laboratory remarks
lc

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	6.19	124.00	<3.0	HC03	2.72	166.00	<1.0
Mg	3.10	37.80	<0.3	SO4	6.52	313.00	<10.0
Na	2.09	48.00	<10.0	CL	0.14	5.00	<5.0
K	0.05	2.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	11.43	211.80			9.38	484.00	

Total Dissolved Solids= 640

Ion Balance = 121.84%

WC No. = 8802695

Date out/By 8/30/88

SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

88-1140-C

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

S.L.D. No. OR: _____
DATE REC. 7/18/88
PRIORITY _____
PHONE(S): 827-5812

WPM 754

COLLECTION CITY: Bloomfield ; COUNTY: San Juan

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) |8|8|0|7|1|8|1|2|4|5|

LOCATION CODE: (Township-Range-Section-Tracts) |2|9|W+|1|1|W+|3|0+|3|1|D| (10N06E24342)

USER CODE: |8|2|2|3|5| SUBMITTER: David Boyer CODE: |2|6|0|

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER: _____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- [X] P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes
- [ ] (774) SDWA VOC's I (8 Regulated +)
- [ ] (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables
- [ ] (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: _____

FIELD DATA:

pH=_____; Conductivity=_____umho/cm at _____°C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

RECEIVED OCT 1 1988 OCD

Sampling Location, Methods and Remarks (i.e. odors, etc.)
Field Blank - Mobil Thomas #1

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D. Boyer Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from D. Boyer to JUDI R-HILL

at (location) SLD - ALB on 7/18/88 - 13:00 and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] OR Seals Intact: Yes [X] No [ ]

Signatures D. Boyer Judi R-Hill

For OCD use: Date owner notified:_____ Phone or Letter? Initials_____

ANALYSES PERFORMED

LAB. No.: OR- 1140

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (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

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic purgeables	N.D.		
halogenated purgeables	N.D.		
* DETECTION LIMIT * ✱	.5 ppb	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed ☐ Intact: Yes ☑ No ☐. Seal(s) broken by: Mary C. Ellen date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 7/27/88. Analyst's signature: Mary C. Ellen

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: R Meyerhen

NEW MEXICO OIL CONSERVATION DIVISION
FIELD TRIP REPORT

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS
W	O	P	3	

Name Charles Gholson Date 7-1-88 Miles 45 District 3

Time of Departure 11:00 AM Time of Return 2:00 PM Car No. 8776

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

Signature Charles Gholson

One well - 29N-11W -

Responded to a report of possible contaminated ground water at the Mobil Producing, Thomas #1. A back hoe digging a ditch discovered condensate on the gound water. It appears to cover a fairly large area. They were still digging and have not outlined the perimeters. The condensate apparently came from a hole in the drip tank. They will empty it, turn it over and check for a hole.

Mileage		Per Diem		Hours	
UIC		UIC		UIC	
RFA		RFA		RFA	
Other	45	Other	-	Other	3

WELL INSPECTION CLASSIFIED

- H - Bradenhead
- P - Plugging
- C - Pit/Tank Cleanup
- T - Well Test
- R - Repair/Workover
- F - Waterflow
- B - Blowout 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, 2wIPI injection and production wells, water floods, 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 in the field (also immediately follow the letter U, R, or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

- D - Drilling
- P - Production
- I - Injection
- C - Combined production/injection operations
- S - SWD
- U - Underground Storage
- G - General Operation
- F - Facility or Location
- M - Meeting
- O - Other

NEW MEXICO OIL CONSERVATION DIVISION
FIELD TRIP REPORT

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER HOURS
W	O	P	4	
H	O	P	3	2

Name Charles Gholson Date 7-13-88 Miles 88 District 3

Time of Departure 8:30 AM Time of Return 4:00 PM Car No. 8776

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

Signature Charles Gholson

One well - 29N-11W -

I met Dave Boyer in Bloomfield and took him to the Mobil Producing, Thomas #1 to check possible contamination of ground water and to get samples of same.

22 wells - 29N-11&12W -

Field inspection west of Bloomfield. All ok.

Mileage		Per Diem		Hours	
UIC		UIC		UIC	
RFA		RFA		RFA	
Other	88	Other	6.00	Other	7.5

TYPE INSPECTION FURNISHED
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, Huby injection and production wells, water floods, 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 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 production/injection operations
S - SWD
U - Underground Storage
G - General Operation
F - Facility or Location
M - Meeting
O - Other