3R - 79

## REPORTS

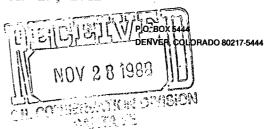
DATE:
II//17/1988

## Mobil Exploration & Producing U.S. Inc.

November 17, 1988

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

cc: E.T. Barber -Bloomfield

E.F. Glass -9D

C.R. Glore -Paulsboro

G.A. "Greg" Cresswell

## 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 laver 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

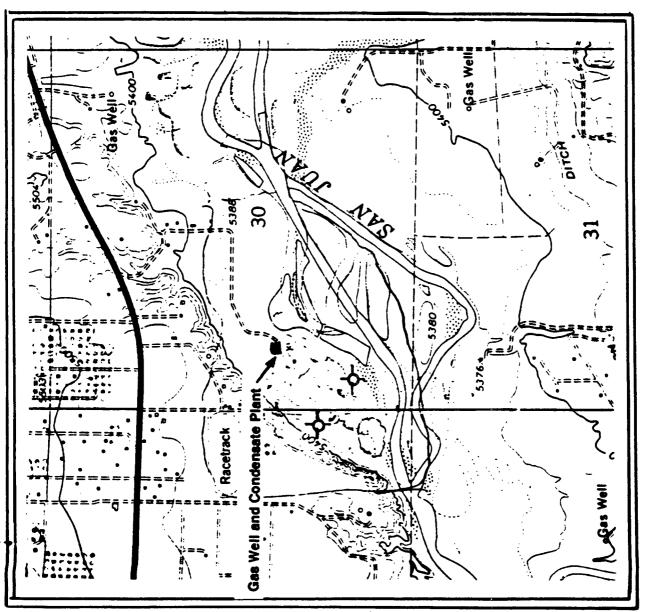
installation each well should be fully developed and the development water should be contained onsite and tested for the dissolved hydrocarbon components benzene, toluene, xylene and ethylbenzene (BTXE), prior to disposal. If these components are not present in concentrations greater than the allowable 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

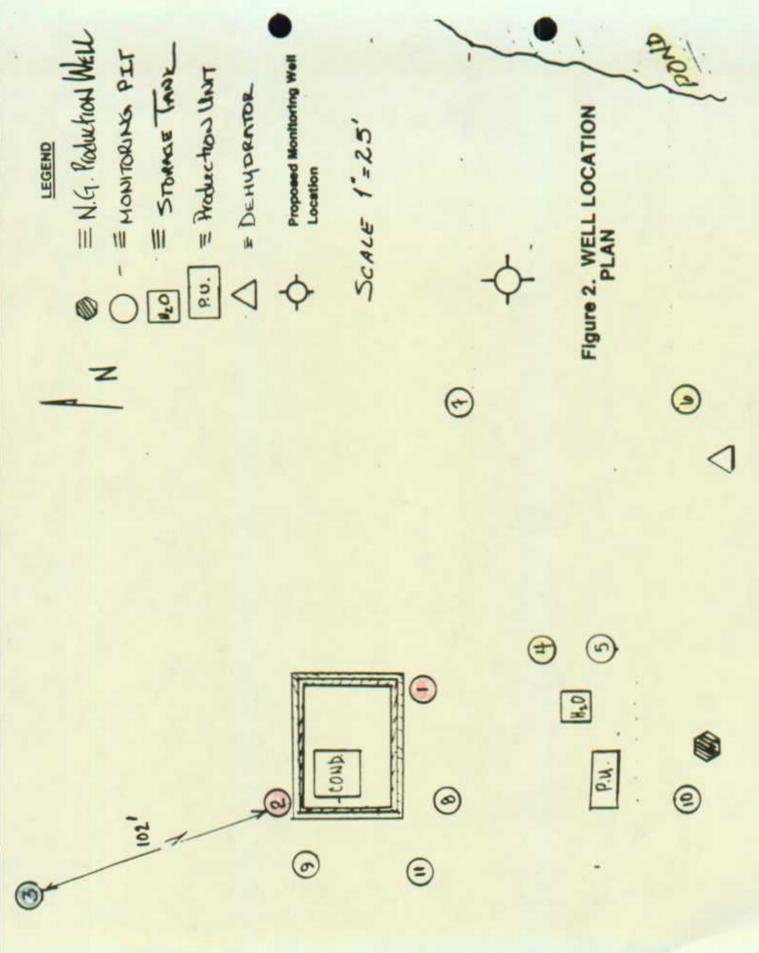
October 28, 1988

Thomas No. 1 Gas Well, Bloomfleid, New Mexico



LEGEND

Page 3 of 4



Page 4 of 4

Thomas No. 1 Gas Well, Bloomfield, New Mexico



## SCONTIFIC LABORATORY DIVISION

ORGANIC ANALYSIS REQUEST FORM Organic Section - Phone: 841-2570

88-1141-C REPORT TO: DAVID BOYER S.L.D. No. OR-N.M. OIL CONSERVATION DIVISION DATE REC. P.O. Box 2088 **PRIORITY** Santa Fe, NM 87504-2088 PHONE(S): 827-5812 BLoomFolk : COUNTY: COLLECTION CITY: COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) 88017173 USER CODE: | 8 | 2 | 2 | 3 | 5 | SUBMITTER: David Bover CODE: | 2 | 6 | 0 | SAMPLE TYPE: WATER [☑], SOIL [☐], FOOD [☐], OTHER:\_\_\_\_\_ This form accompanies Septum Vials, Glass Jugs, and/or Samples were preserved as follows: No Preservation; Sample stored at room temperature. NP: 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 EXTRACTABLE SCREENS (753) Aliphatic Headspace (1-5 Carbons) (751) Aliphatic Hydrocarbons (754) Aromatic & Halogenated Purgeables (755) Base/Neutral Extractables (765) Mass Spectrometer Purgeables (758) Herbicides, Chlorophenoxy acid (766) Trihalomethanes (759) Herbicides, Triazines 774) SDWA VOC's I (8 Regulated +) (760) Organochlorine Pesticides 7 (775) SDWA VOC's II (EDB & DBCP) (761) Organophosphate Pesticides Other Specific Compounds or Classes (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides Remarks: FIELD DATA: pH=\_\_\_\_; Conductivity=\(\)550\(\text{umho/cm}\) at \(\sum\_{\text{S}}^{\circ}\)C; Chlorine Residual=\_\_\_\_mg/l\_\_\_ Dissolved Oxygen=\_\_mg/l; Alkalinity=\_\_mg/l; Flow Rate\_\_\_\_\_\_ Depth to water 1 ft.; Depth of well ft.; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.) I certify that the results in this Block accurately reflect the results of my field analyses, observations and Method of Shipment to the Lab: Male activities.(signature collector): CHAIN OF CUSTODY I certify that this sample was transferred from the statements in this blook are correct. Evidentiary Seals: Not Sealed OR Seals Intact; Yes Signatures

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

LAB. No.: OR- //4/

This sample was tested using the analytical screen	ning 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						
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.					
aromatia au narllas	<u> </u>	aromatic surseables	1.7.2					
henang manufaction	1030	benen parguner	920					
toling	245	Thuene	5590					
of the Manage	210	eshulsensene	570					
2 h on duland	800	enginement	5140					
2 vila a	145	p m-sigline	490					
1 B Referred V	1	0- Syline	770					
		halogenati I surgenblu	N.D.					
• detection limit • 🗡	SETTE	+ DETECTION LIMIT + +	5 48/6					
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:								
Seal(s) Not Sealed Intact: Yes No . Sealed Intact: Yes	Seal(s) broken res on handling he analytical re mature:	s and analysis of this sample unless otherwise notes esults for this sample.  Many C. Min	<del></del>					



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

FOR OCD USE -- Date Owner Notified\_

# GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED   71/81	SK LAB WC-	2697 CODE [	59300	□ 59600 XX OT	HER: 822	235	,
Collection DATE 13		SITE   Sample location			LTh	8ma	A\$1
Collection TIME 4D		ATION Collection site	description		- 77		
Collected by — Person/Agency	sout !	'OCD					
5111/T.D.	/ J	DEALL		İ			
SEND NM OII	NMENTAL BU CONSERVAT	ION DIVISION					
FINAL State REPORT	Land Offic Fe, NM 875	e Bldg, PO Box	x 2088			·····	
TO Santa Attn:Davi		04-2000				***************************************	
	m.m.xer				Station/	0/1	1.162 21
	27-5812			<u> </u>	well code Owner	<u> </u>	W, 30.31
SAMPLING CONDITION  Bailed Dum		vel	Ιn	ischarge		Sample ty	ne /
□ Tap							OD46
pH (00400)	Conduc	tivity (Uncorrected) 25,501	umho   V	Vater Temp. (00010)	/ ·c	Conductiv	ity at 25°C (00094) µmho
Field comments D	early Fi		Seen	6000 . 50	Mil	An	roll and
1P1	ollet h	110 of	7 //		fu Luc		Land Land
CAMPLE FIELD TOP	TAPATAL Ob		- <del>/</del>		•••••		
SAMPLE FIELD TREA  No. of samples ,			Itered in fie	ld with	~! H 60: //	addad	
submitted [			45 μmemb	rane filter	nl H₂SO₄/I 	<del></del>	
` <b>⊠</b> (NA: No acid adde	d □ Other-sp	pecify:	<b>∃A:</b> 5m	1 conc. HNO <sub>3</sub> add	led 🗆 A	: 4m1	fuming HNO <sub>3</sub> added
ANALYTICAL RESULT	S from SAMP		analumad l	· · · · · · · · · · · · · · · · · · ·			
NA  Conductivity (Corrected	) -	Units Date		From Af, N	A Sample	<b>:</b> '	Date Analyzed
25°C (00095)	′3	353_µmho	6/12	<b>-</b>	/# n /	,-	<u> </u>
☐ Total non-filterable residue (suspended)			Į.	∑ Calcium	416		
(00530), , ,	7.8	mg/l	8/15	Potassium	118,	<u>\$</u> mg/1	7/2
Other:	<u></u>	<u> </u>	9/13	Magnesium		<u>3</u> _mg/1 <u>タ</u> _mg/1	
☐ Other:				Sodium  Bicarbonate		<u>0                                    </u>	
A-H₂SO₄				Chloride	18:		
☐ Nitrate-N + , Nitrate-N		ma/l		Sulfate		O mg/1	- A-
total (00630)  Ammonia-N total (00610	));	mg/l mg/l		Total Solids			5/0
☐ Total Kjeldahl-N ( )		mg/l		N Ba		89 mg/	Q 8/24
☐ Chemical oxygen demand (00340)		mg/l					
☐ Total organic carbon		mg/l					
( ) □ Other:		mg//		Cation/An	ion Ba.		Reviewed by
☐ Other:				ritaryot		30   88	
Laboratory remarks							
	*****************************						
				***************************************			

Phone or Letter?\_\_

Initals\_

ANALYT	CATIONS E MEQ.	PPM	DET. LIMIT	ANALYT	ANIONS E MEQ.	PPM	DET.
Ca Mg Na K	20.76 9.69 16.88 0.13	416.00 118.00 388.00 5.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	7.37 28.96 5.16	450.00 1390.00 183.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00 0.00	       	NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	47.46	927.00	ļ		41.50	2023.00	
	Dissolved alance =	_	2920		C No.	= 8802697 (9 8/3988	/ -



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

	REPORT TO:	DAVID BOYER		S.L.D. No. OR-	- 88-1144-C
•		N.M. OIL CONSERVATION DI	VISTON		7/10/08
12		P.O. Box 2088	VIDION	PRIORITY	12/0/80
	54	Santa Fe, NM 87504-2088	)		227 5012
	7(	D1 100 (\1/)	)	_	$\frac{327-5812}{7}$
	COLLECTION CI		0 0	_; COUNTY: SON	JUAN .
		ATE/TIME CODE: (Year-Month-Day-Hour-			1/15151
	LOCATION COD	E: (Township-Range-Section-Tracts)	<u> </u>	W+310+311	C (10N06E24342)
	USER CODE:  _	8 2 2 3 5 SUBMITTER:	David Boy	er	CODE: 2 6 0
	SAMPLE TYPE:	WATER KI, SOIL [], FOOD [], OTI	HER:		
	Samples were pre NP: P-Ice P-AA P-HCI ANALYSES REQ required. Whenev  (753) Alipha (754) Aroma (765) Mass 3 (766) Trihalo (774) SDWA (775) SDWA	Septum Vials, Glass served as follows:  No Preservation; Sample stored at room Sample stored in an ice bath (Not Frose Sample Preserved with Ascorbic Acid to Sample Preserved with Hydrochloric Acid UESTED: Please check the appropriate borer possible list specific compounds suspecter PURGEABLE SCREENS  tic Headspace (1-5 Carbons)  tic & Halogenated Purgeables  Spectrometer Purgeables  WOC's I (8 Regulated +)  VOC's II (EDB & DBCP)  Specific Compounds or Classes	temperature.  n). remove chlorine (2 drops/40 m c(es) below to i d or required.	residual.  al) indicate the type of anal  EXTRACTABLE SCRI (751) Aliphatic Hydrocar (755) Base/Neutral Extra (758) Herbicides, Chloropi (759) Herbicides, Triazine (760) Organochlorine Pesi (761) Organophosphate Peri (767) Polychlorinated Bip (764) Polynuclear Aromat (762) SDWA Pesticides description	ytical screens  EENS bons ctables nenoxy acid s ticides seticides henyls (PCB's) ic Hydrocarbons z Herbicides
				[.] [.]	1-) t 2/1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
	Dissolved Oxygen	mductivity=5500mho/cm at 20°( mg/l; Alkalinity=mg/l; F  3 ft.; Depth of wellft.; Perform, Methods and Remarks (i.e. odors, etc.)	ration Interval	ft.; Casing:	DOTA A 1901 AND
	Malare S	Thomas 1 Pit # 3	de Bro	unwelly	Covered_
	I certify that the activities.(signatur	e results in this block accurately reflect the collector):		field analyses, observati	
	CHAIN OF CUS I certify that thi at (location)	TODY  s sample was transferred from D, A  SLB-ALB	Boyer on =	10 2001 118188 - 13	R-H1LL $3:00$ and that
	the statements in	this block are correct. Evidentiary Seals:	Not Sealed	OR Seale Intact: Yes	
	For OCD	use: Date owner notified	:	Phone or Let	ter? Initials

LAB.	No.:	OR-	1144

This sample was tested using the analytical screen	ing method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Headspace (1-5 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(755) Base/Neutral Extractables	
(765) Mass Spectrometer Purgeables		(758) Herbicides, Chlorophenoxy acid	
(766) Trihalomethanes		(759) Herbicides, Triazines	
(774) SDWA VOC's I (8 Regulated +)		(760) Organochlorine Pesticides	
(775) SDWA VOC's II (EDB & DBCP)		(761) Organophosphate Pesticides	
Other Specific Compounds or Classes		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
1—1 — — — — — — — — — — — — — — — — — —			
ΔΝΙ	AI VTICA	AL RESULTS	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
	[PPB]	<u> </u>	[PPB]
aromatic surgestles			
hemend 1	4600		ļ
taluena	9900		
athyllensene	N.D.		
a i ha ha land	5500		
1 + MI - Inglesse			
10-xyline	570		
	(1 1)		
habogenated surgeables	NoDi		
			1
V	- 491	+	
• DETECTION LIMIT • 🗶	50 48/L	+ DETECTION LIMIT + T	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE	THE STATE	D DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW	THE STATE	DETECTION LIMIT (NOT CONFIRMED)	
[ RESULTS IN BRACKETS ] ARE UNCONF	IRMED AND	OR WITH APPROXIMATE QUANTITATION	
	ı		
LABORATORY REMARKS:			
			····
	<del></del>		
	····		
CERTIFICAT	E OF ANALY	TICAL PERSONNEL	
Seal(s) Not Sealed Intact: Yes No . S	Seal(s) broken	by: Mun C-Elen date:	
I certify that I followed standard laboratory procedure			and
that the statements on this page accurately reflect th		•	
/ - /- /		Hary & Ellen	
I certify that I have reviewed and concur with, the			block.
Reviewers signature: KMeyhhan			



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

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7	18188 K	5.Wr-2696	USER CODE   59300	o □ 59600 💥 O	THER: 822	235
Collection DATE		SITE INFORM- ▶	Sample location M	skilThom	DA #	1
Collection TIME		ATION	Collection site description			
Collected by — Person/Ac	gency Roy		***************************************			
	- 33673				***************************************	
	NVIRONMENT					
SEND N	IM OIL CONS	SERVATION DIV Office Bidg,	ISION PO Rox 2088	8		
		M 87504-2088		•	***************************************	
▶	David Boy					
D.					Station/	1/1/1 20 21
Phon		12			Owner Owner	5N, 1/W, 30,31
SAMPLING CON  Bailed	□ Pump	Water level		Discharge		Sample type
	☐ Tap	vvaler lever		Discriarge		Sample type CRab
pH (00400)	)	Conductivity (Uncor	rected) 500 µmho	Water Temp. (00010)	20 °C	Conductivity at 25°C (00094)  µmho
Field comments	Ra - 12		300 F	-01.00	10	0:11/1/2 AD
***************************************	18200	r) Wase	1 CARCI	es by yu	$m$ , $\delta$	Sign For Own
		••••••••••••	***************************************	<u> </u>		
SAMPLE FIELD	TREATMENT	Г — Check prope	r boxes			
No. of samples submitted	1 MA	Whole sample (Non-filtered)	□ <b>F:</b> Filtered in 0.45 µmer	field with	ml H₂SO₄/l	L added
NA: No acid	d added □ C	Other-specify:	□A:	5ml conc. HNO3 ad	ded $\square$ A	A: 4ml fuming HNO <sub>3</sub> added
ANALYTICAL R	ESULTS from	SAMPLES				
NA NA			Jnits Date analyze	From A	NA Sample	: Date
Conductivity (C 25°C (00095)	orrected)	6866	imho <u>8/12</u>			Analyzed
☐ Total non-filtera	ble		•	Calcium	56	6 mg/1 8/02
residue (susper			mg/l	Potassium		3 mg/1 7/29
Other: Lab	pt/ =	7.88	8/9	Magnesium _	176	mg/1 8/92
□ Other:	<i></i>			- ⊠ Sodium ✓	1/3	75 mg/1 7/29
☐ Other:			<del></del>	Bicarbonate	83	9 mg/1 <u>8/9</u>
A-H₂SO₄				Chloride V	22	$2_{mg/1}$ $8/3$
☐ Nitrate-N + , Nit total (00630)	trate-N		mg/l	_ Sulfate	28	00 mg/1 8/4 =
☐ Ammonia-N tot			mg/l	Total Solid		50 mg/1 <u>8/9</u>
☐ Total Kjeldahl-N	·		mg/l	D Bo	4	.98 Mg/l 8/24
☐ Chemical oxyg			mg/l			
☐ Total organic ca		C	mg/l	73		•
☐ Other:	·	-	g/i	Cation/Ar	J 1975	eported Reviewed by
☐ Other:	·			- Analysi	1/.	30 88 C
Laboratory remarks	s				101	<u> </u>
<u> </u>	***************************************		***************************************			
					*************	
FOR OCD USE	Date (	Owner Notifie	d	Phone or Lette	er?	Initals

	CATIONS				ANIONS	1	
ANALYI	TE MEQ.	PPM	DET. LIMIT	ANALYT	E MEQ.	PPM	DET. LIMIT
Ca Mg Na K	27.94 14.54 51.11 0.33	560.00 177.00 1175.00 13.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	13.75 58.33 6.26	839.00 2800.00 222.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00 0.00	     	NO3 CO3 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	93.92	1925.00	   		78.35	3861.00	
	Dissolved alance =	_	6150		C No.	= 8802696	<u>&gt;</u>



## ORGANIC ANALYSIS REQUEST FORM Organic Section - Phone: 841-2570

	Organic Section - In	041-2370		88-1148 C -
REPORT TO:	DAVID BOYER		S.L.D. No. OR	
\ 04	N.M. OIL CONSERVATION DIVIS	ION	DATE REC.	7/18/88
WPI	P.O. Box 2088		PRIORITY	3
769	Santa Fe, NM 87504-2088	***************************************	PHONE(S): 8	27-5812
COLLECTION C	71 10		DUNTY: Same	-
	DATE/TIME CODE: (Year-Month-Day-Hour-Minute			21/151
LOCATION CO	DE: (Township-Range-Section-Tracts) 131911	1+111W+	310+311	(10N06E24342)
	8 2 2 3 5 SUBMITTER: Day	•		
SAMPLE TYPE	: water 🔀 soil 📋 food 📋 other:_	-	.,,,,	
This form assen	npanies Septum Vials, Glass Jugs,	and/or		
	reserved as follows:	and/or		
☐ NP:	No Preservation; Sample stored at room tempe	rature.		
P-Ice P-AA	Sample stored in an ice bath (Not Frozen).  Sample Preserved with Ascorbic Acid to remove	e chlorina residue	al .	
P-HCI	Sample Preserved with Hydrochloric Acid (2 of		ai.	
~	QUESTED: Please check the appropriate box(es)		the type of analy	tical screens
required. Whene	ever possible list specific compounds suspected or	required.		
	PURGEABLE SCREENS	EXT	RACTABLE SCREE	<u>ens</u>
	atic Headspace (1-5 Carbons)	· · · · ·	Miphatic Hydrocarbo	
	atic & Halogenated Purgeables		Base/Neutral Extract	
<u>'=='</u> ' '	Spectrometer Purgeables	<b>=</b> : : :	erbicides, Chlorophe	enoxy acid
(766) Triha		<u> </u>	lerbicides, Triazines	-: -:
·—·	A VOC's I (8 Regulated +) A VOC's II (EDB & DBCP)	<u> </u>	organochlorine Pesti organophosphate Pes	
	er Specific Compounds or Classes	= :	olychlorinated Biph	
	. upositio compounds of classic	= : :	olynuclear Aromatic	
		<u></u>	DWA Pesticides &	•
Remarks:				
FIELD DATA:			- Company of the Comp	Tanklaha .
рн= ¬	Conductivity= 16 Cumho/cm at 20 °C; Chl	orine Residual=	mg/l	William John
, <u></u> , .	<u> </u>			
				out in the land
Depth to water	ft.; Depth of well ft.; Perforation	Interval	ft.; Casing:	
. /	on, Methods and Remarks (i.e. odors, etc.)	45	N. 1.	C
Molon	Shamas + Fel 7	- Ju	ex July	Sield
	Clar, NO ONO		4	
	he results in this block accurately reflect the resure collector):	ults of my field  Method o	analyses, observation of Shipment to the	Lab: Stell Car
CHAIN OF CU	(STOD Y			
-	1 Re	NOR	700.0	1111
I certify that t	his sample was transferred from	7	60 3001 K-	THE COL
	SLD - A C			
the statements	in this block are correct. Evidentiary Seals: Not	Sealed OR	Seals Intact: Yes [	№ □
Signatures	Koyf)			
For OCD	use: Date owner notified:	P	hone or Let	ter? Initials

LAB. No.: OR- 1/48

This sample was tested using the analytical scree	ning 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	
<u>AN</u> .	ALYTICA	AL RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
armatic suraeables	N.D.		
Salvaensteld (surgestles	N.D.		
The second secon			
	·		
	<b> </b>		
	-1001		
• DETECTION LIMIT • 🗶	,5 48/2	+ DETECTION LIMIT + T	
ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [ RESULTS IN BRACKETS ] ARE UNCONI  LABORATORY REMARKS:	THE STATE		
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
			-
CERTIFICA	TE OF ANAL	YTICAL PERSONNEL	
Seal(s) Not Sealed Intact: Yes No I certify that I followed standard laboratory procedu that the statements on this page accurately reflect t	Seal(s) broken res on handlin he analytical i	by: date:	and
Date(s) of analysis: 7/22/38 . Analyst's significant control of analysis and control of the cont	gnature:	Hary le Elen	
I certify that I have reviewed and concur with the	analytical resu	ilts for this sample and with the statements in this	block.
Reviewers signature: K Meyer her			



New Mexico Health and Einspinment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 450 NN

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7	71/8188 1	8. WC-2692	JSER 5930	o □ 59600 💢 X	THER: 82	235	
Sollection DATE	3		ample location	ITH3. M	bil	Loma	of #1
Collection TIME		ATION _	ollection site description			greve	
Collected by Person	n/Agency Roye	P /OCD -			***************************************	***************************************	
·	- KS090	7 7 7 5 5			]	***************************************	
	ENVIRONMENT						
SEND		SERVATION DIVI		0			
FINAL REPORT		Office Bldg, NM 87504-2088	PU DUX 200	О		****	
TO ►	n:David_Boy						
Atti	1	F.X	***************************************	***************************************	Station/		1 - 2;
Pho	one: 827-58	312			well code	1/1/1	V30,31
SAMPLING CO	,	<u>,</u>	<u></u>		Owner	<u></u>	
☐ Bailed ☑ Dipped	☐ Pump ☐ Tap	Water level		Discharge		Sample type	Correla
pH (00400)		Conductivity (Uncorre		Water Temp. (00010)	- >	Conductivity	at 25°C (00094)
F:-14	7	46.500	μmho	7	27 °C		μmho
Field comments	Pitin	Silly,	Clean.	nt odd	)		
					<i>'</i>		
SAMDI E EIEI	O TREATMENT	T — Check proper	hoves				
No. of samples		14th - 1 1 -	F: Filtered in	field with	m H CO:/	l addad	
submitted	/ NF	(Non-filtered)	0.45 μme	mbrane filter	ml H₂SO₄/	L added	- Hartman
NA: No a	cid added 🗆 C	Other- <i>specify:</i>	□A:	5ml conc. HNO <sub>3</sub> ad	lded 🗆 🛭	A: 4m1 fu	ming HNO <sub>3</sub> added
ANALYTICAL	RESULTS from	SAMPLES					
NA NA		Uı	nits Date analyze	From NG,	NA Sample		Date
Conductivity 25°C (00095	(Corrected)	5817 un	nho <u>8/12</u>	<del>44-3,</del>			Analyzed
		,	,	Calcium	432	mg/1_	8/04
☐ Total non-filte residue (susp				□ Potassium			7/29
(00530) CXOther: 1	had -	8.14	1g/l <u></u>	Magnesium _	206	mg/1	8/02
Cother: La	. φ <i>γ</i> //			Sodium	9	<i>8</i> / mg/1	7/29
☐ Other:				Bicarbonate		75 mg/1_	8/9
A-H₂SO₄				Chloride	41.5		8/1
□ Nitrate-N+, I				Sulfate		50 mg/1	<u></u> 8/3
total (00630)  Ammonia-N			ng/l ng/l	- ☑ Total Solid		40 mg/1_	8/9
☐ Total Kjeldah		10 10 2 2 2 10 10	-	1 章 わ		91 ugll_	8/24
☐ Chemical ox		- 1000 H	)g/l	-   M - 40	***		
demand (003	11		ng√	_  LJ		<del></del> -	
( )	2.72	, , , m	ng/l	- 🛛 🖸 Cation/A	nion Ba	lance 🔔	
☐ Other:				Analyst			Reviewed by
		,			8	30 88	
Laboratory rema	ırks 		\	***************************************	******		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
							. 1
FOR OCD US	SE Date C	)wner Notif <b>ie</b> d	L	Phone or Lett	er?	Ini	tals

ANALYI	CATIONS TE MEQ.	PPM	DET. LIMIT	ANALY	ANIONS TE MEQ.	PPM	DET.
Ca Mg Na K	21.56 16.94 42.67 4.04	432.00 206.20 981.00 158.00	<3.0 <0.3 <10.0 <0.3	HC03   SO4   CL	7.95 69.79 16.11	485.00 3350.00 571.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	85.20	1777.20		<u> </u> 	93.85	4406.00	
	Dissolved alance =	Solids= 90.79%	5540		WC No. out/By _	= 8802692 8/30/km	<u> </u>



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

			88-1143-6
REPORT TO:	DAVID BOYER	S.L.D. No. OR-	
, 0 W	N.M. OIL CONSERVATION DIVISION	DATE REC	100000 25%
WYYY	P.O. Box 2088	PRIORITY	
751	Santa Fe, NM 87504-2088	PHONE(S):	327-5812
COLLECTION C	HTY: BLOOMSielf	_; COUNTY: San	Juan
COLLECTION D	ATE/TIME CODE: (Year-Month-Day-Hour-Minute)   8   8	107/13/1	1110
	DE: (Township-Range-Section-Tracts) 2914+11	1	O  (10N06E24342)
	8 2 2 3 5  SUBMITTER: David Boye		
	WATER , SOIL   , FOOD   , OTHER:		
Samples were pro NP: P-Ice P-AA P-HCl ANALYSES REC required. Whenev  (753) Alipha (754) Aroma (765) Mass (766) Trihal (774) SDWA	A VOC's I (EDB & DBCP)	residual. l)	lytical screens  EENS bons ctables henoxy acid s ticides esticides henyls (PCB's)
Dissolved Oxygen	conductivity= <u>1450</u> umho/cm at <u>17,5</u> °C; Chlorine Resident mg/l; Alkalinity= mg/l; Flow Rateft.; Depth of wellft.; Perforation Interval		2012 1990 PHI
Sampling Location  Pitter  I certify that the	on, Methods and Remarks (i.e. odors, etc.)  Mobil Thomas #1 Supply  Odo, Slumon Usales Swift  the results in this blook accurately reflect the results of my	1 grayist	ons and
CHAIN OF CUS	eton v		//
	his sample was transferred from Boyer	<u> JUPI</u> D <i>JB</i> JBB - 1	R-HILL $3:CO$ and that
the statements i	in this block are correct. Evidentiary Seals: Not Seafed	OR Seals Intact: Yes	<u> </u>
For OCD	use: Date owner notified:	Phone or Let	tter? Initials_



LAB. No.: OR- 7743

This sample was tested using the analytical screen	ning method(s)	checked below:			
PURGEABLE SCREENS		EXTRACTABLE SCREENS			
(753) Aliphatic Headspace (1-5 Carbons)		(751) Aliphatic Hydrocarbons			
[X] (754) Aromatic & Halogenated Purgeables		(755) Base/Neutral Extractables			
(765) Mass Spectrometer Purgeables		(758) Herbicides, Chlorophenoxy acid			
(766) Trihalomethanes		(759) Herbicides, Triazines			
(774) SDWA VOC's I (8 Regulated +)		(760) Organochlorine Pesticides			
(775) SDWA VOC's II (EDB & DBCP)		(761) Organophosphate Pesticides			
Other Specific Compounds or Classes		(767) Polychlorinated Biphenyls (PCB's)			
		(764) Polynuclear Aromatic Hydrocarbons			
		(762) SDWA Pesticides & Herbicides			
ANA	ALYTICA	L RESULTS			
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.		
curmetie surgentles	1		1110		
- Law marce surrelances	2				
benjene (	TRI				
tollienc	50				
A + m - Kyleno	295				
0- xulenc	40				
ethul henseno	N.D.				
halogenated smaller	N.D.				
* DETECTION LIMIT * *	2578/2	+			
* DETECTION LIMIT * *	05 10/C	+ DETECTION LIMIT +			
ABBREVIATIONS USED:					
N D = NONE DETECTED AT OR ABOVE	THE STATE	D DETECTION LIMIT			
T R = DETECTED AT A LEVEL BELOW					
[ RESULTS IN BRACKETS ] ARE UNCONF	FIRMED AND/	OR WITH APPROXIMATE QUANTITATION			
LABORATORY REMARKS:					
		The second secon	<del></del>		
		TICAL PERSONNEL			
Seal(s) Not Sealed Intact: Yes No . Seal(s) broken by: Mary C. Man 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: May (. May)					
I certify that I have reviewed and concur with the			block.		
Reviewers signature: K Meyerhen					



New Mexico Health and Enconment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 459 WN/

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

1 1	· · · · · · · · · · · · · · · · · · ·						
DATE RECEIVED 7	1/8788 N	5.411-2698 USE	R E 5930	o □ 59600 🖎 c	OTHER: 822	235	
Collection DATE	3	SITE	e location	144, MO	bit 1.	homas	#1
Collection TIME	4	INFORM- ►		1 1110		0011000	
Collected by Person	/Agency 🗇 🔐		tion site descriptio	n			
	180-19	/OCD -			¬		
	/	,					
	ENVIRONMENT		ΩN				
SEND FINAL	NM UIL CONS	SERVATION DIVISI Office Bldg, PO	Box 208	8			•••••
REPORT TO	Santa Fe.	NM 87504-2088	20% 200	-	***************************************		
<b>&gt;</b>		yer					•••••
Aun	1214-K-L341337-	Jak		****	Station/	- 1	
Pho	ne: 827-58	312			Station/ well code	in Itw,	30.51
SAMPLING CO	ONDITIONS				Owner		,
☐ Bailed	□ Pump	Water level		Discharge	•	Sample type	210-
- SK Dipped	□ Тар					$\mathcal{O}$	1000
pH (00400)	$\sim$	Conductivity (Uncorrecte		Water Temp. (00010)	/7,5 °c	Conductivity at 25	5°C (00094) μmho
Field comments	Dun P	A 3/21	not.	gracish	11 1	Stran	<u> </u>
			TOLLY	7 109/05/1	$D \ni C$	002019	<u></u>
***************************************	BEDXIA	<i>BUD</i> , S	cum	on Aringe	al l	<i></i>	***************************************
SAMPLE FIEL	D TREATMEN	T — Check proper box	es				
No. of samples	1 /5X/NI	. Whole sample	E. Filtered in		? ml H₂SO₄/	l added	
submitted	1 0-	(Non-filtered)	0.45 μme	morane inter	*		
SNA: No ac	cid added 🗆 (	Other-specify:	□ A:	5ml conc. HNO <sub>3</sub> ad	lded □A	4m1 fumi	ng HNO <sub>3</sub> added
ANALYTICAL	RESULTS from	n SAMPLES					
NA		Units	Date analyze	From $N \leq 1$	NA Sample		Date :
Conductivity (25°C (00095)	(Corrected)	1932 µmho	8/12	, , , , , , , , , , , , , , , , , , ,		<u>An</u>	alyzed .
		<b>,</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del></del>	_ ☑ Calcium	296	mg/18	8/02
☐ Total non-filte residue (susp				<u> </u>		Smg/1	7/19
(00530)	1 11 -	mg/l	8/15	_   ~~~~~ _			8/02
Other:	6 p#	8.01	- 8/15	_ Magnesium _		0 mg/1 8	
Other:				- ⊠ Sodium		140 mg/7 7	129
				☐ Ø Bicarbonate	3	<u>14_mg/1</u>	8/15
A-H₂SO₄				🚅 🖾 Chloride _	17.	<u>5</u> mg/1	8/3
☐ Nitrate-N + , N total (00630)	Vitrate-N	mg/l		Sulfate	78	O mg/1	8/3
☐ Ammonia-N t	otal (00610)	mg/l		Total Solid	is ito	Z mg/1	89
☐ Total Kjeldahl	I-N			700		B Mall	8/24
☐ Chemical oxy	057 <u>-1</u>	mg/l		- X	1000	<u>√~</u>	Ofer
demand (003		mg/l		_  🗆			
☐ Total organic	carbon	mg/l		157 /2	. 5.	-	
□ Other:		mg/i		- Cation/A			
☐ Other:				Analyst	1 .		ewed by
Laboratory remai	rks				18	30 88 (	<u> </u>
22	***************************************			***************************************			
					_		
FOR OCD US	SE Date (	Owner Notified		Phone or Lett	er?	Inita	ls

ANALYI	CATIONS E MEQ.	PPM	DET. LIMIT	ANALYT	ANIONS E MEQ.	•	DET.
Ca Mg Na K	14.77 4.11 6.09 0.13	296.00 50.00 140.00 5.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	6.46 16.25 0.49	394.00 780.00 17.50	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00	       	NO3 CO3 NH3 PO4	0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	25.09	491.00	1		23.20	1191.50	
	Dissolved lance =	Solids= 108.16%	1612		C No. out/By	08802698 8/30668	_



### NTIFIC LABORATORY DIVESION

ORGANIC ANALYSIS REQUEST FORM Organic Section - Phone: 841-2570 88-1146-C REPORT TO: DAVID BOYER S.L.D. No. OR-N.M. OIL CONSERVATION DIVISION DATE REC. P.O. Box 2088 PRIORITY Santa Fe, NM 87504-2088 PHONE(S): 827-5812 ; COUNTY: ECTION CITY: COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) 1818/017113 LOCATION CODE: (Township-Range-Section-Tracts) 29 N+111W+310+310+3110(10N06E24342) USER CODE: | 8 | 2 | 2 | 3 | 5 | SUBMITTER: David Bover CODE: | 2 | 6 | 0 | SAMPLE TYPE: WATER X, SOIL | FOOD | OTHER: This form accompanies \_\_\_\_\_ 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-HCI 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 EXTRACTABLE SCREENS [753] Aliphatic Headspace (1-5 Carbons) (751) Aliphatic Hydrocarbons (754) Aromatic & Halogenated Purgeables [ (755) Base/Neutral Extractables (765) Mass Spectrometer Purgeables (758) Herbicides, Chlorophenoxy acid 7 (766) Trihalomethanes (759) Herbicides, Triazines 774) SDWA VOC's I (8 Regulated +) (760) Organochlorine Pesticides (775) SDWA VOC's II (EDB & DBCP) (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) Other Specific Compounds or Classes (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides pH= 7; Conductivity=1020 umho/cm at 16.5 °C; Chlorine Residual= mg/1 Dissolved Oxygen=\_\_mg/l; Alkalinity=\_\_mg/l; Flow Rate\_\_\_\_/\_ Depth to water  $\sim$  ft.; Depth of well \_\_\_\_ft.; Perforation Interval \_\_\_\_\_ft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) I certify that the results in this block accurately reflect the results of my field analyses, observations and Method of Shipment to the Lab: 1/4 activities.(signature collector): CHAIN OF CUSTODY I certify that this sample was transferred from 1. BOUCR to 2001 at (location) the statements in this block are correct. Evidentiary Seals: Not Sealed \_ OR Seals Intact: Yes \_

Signatures

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

This sample was tested using the analytical screening method(s) checked below:							
PURGEABLE SCREENS		EXTRACTABLE SCREENS					
(753) Aliphatic Headspace (1-5 Carbons)		(751) Aliphatic Hydrocarbons					
(754) Aromatic & Halogenated Purgeables		(755) Base/Neutral Extractables					
(765) Mass Spectrometer Purgeables		(758) Herbicides, Chlorophenoxy acid					
(766) Trihalomethanes		(759) Herbicides, Triazines					
(774) SDWA VOC's I (8 Regulated +)		(760) Organochlorine Pesticides					
(775) SDWA VOC's II (EDB & DBCP)		(761) Organophosphate Pesticides					
Other Specific Compounds or Classes		(767) Polychlorinated Biphenyls (PCB's)					
		(764) Polynuclear Aromatic Hydrocarbons					
		(762) SDWA Pesticides & Herbicides					
l							
AN	IALYTICA	L RESULTS					
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.				
COMPOUND(S) DETECTED	[PPB]	COMPOUND(3) DETECTED	[PPB]				
1	I see 1		1110				
armatic surgerbles	samaelle						
hearbare	N.D.		ļ				
1 to the	5.6						
+/ II							
Majkenjene	NeDo						
O+m-xyleno	57						
1-xullenc	5.6						
yan			1				
halisansted surgeally	N.D.						
Juco ge mice sun sugara s	190.0.						
• DETECTION LIMIT • 🗶	.598/2	+ DETECTION LIMIT + +					
ABBREVIATIONS USED:		·					
N D = NONE DETECTED AT OR ABOV							
T R = DETECTED AT A LEVEL BELOW							
[ RESULTS IN BRACKETS ] ARE UNCON	FIRMED AND/	OR WITH APPROXIMATE QUANTITATION					
		- the martin					
LABORATORY REMARKS:	n <i>poundo</i>	in Mil gramming screen					
Main at 2-1-5 and	and	mine late elilina comara	nds				
1: +/2 C3 . 1 HHT	1 /	Note of reduct life ?	+11				
- Jun Mac Co sursumes	<u>, senzine</u>	region an 1-5 fun deliell	A May				
the shotoionization detect	of Sout	net de identified					
CERTIFICA	TE OF ANALY	TICAL PERSONNEL					
Seal(s) Not Sealed Intact: Yes I No .	Seal(s) broken	by: Hary Callen date:					
I certify that I followed standard laboratory proced			d and				
that the statements on this page accurately reflect the analytical results for this sample.							
W 7/22/98	N 7/22/98						
I certify that I have reviewed and concur with the	-		block.				
l ha							
Reviewers signature: ////							



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

FOR OCD USE -- Date Owner Notified\_



## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7 18 8	LAB NO. W( -2694 CODE □ 5930	o □ 59600 💢 OT	гнен: 82235	
Collection DATE	SITE INFORM-	T#6, Mok		nas#1
Collected by — Person/Agency	Collection site descriptio	n		
Logg-	/000			
NIM OTI CON	NTAL BUREAU NSERVATION DIVISION			
FINAL State Land	d Office Bldg, PO Box 208	8		
Attn: David Bo	NM 87504-2088			
			Station/	// 15 30
Phone: 827-5 SAMPLING CONDITIONS	5812		well code IN, I.	1 W. Sec 30
☐ Bailed ☐ Pump  ☐ Dipped ☐ Tap	Water level	Discharge	Sample typ	oe GRAR
pH (00400)	Conductivity (Uncorrected)  / 0 50   µmho	Water Temp. (00010)	6.5°C Conductivi	ty at 25°C (00094) µmho
Field comments	Pil、~3FTな	wale,	Clear War	tes
<u></u>		·····		
SAMPLE FIELD TREATMEN				
No. of samples submitted	<b>IF:</b> Whole sample (Non-filtered) □ <b>F:</b> Filtered in 0.45 μme	field with $\Box$ A: 2	ml H₂SO₄/L added	
NA: No acid added	Other-specify:	5ml conc. HNO3 add	ded □A: 4ml	fuming HNO <sub>3</sub> added
ANALYTICAL RESULTS fro				
NA Conductivity (Corrected)	Units Date analyze	From NE, N	IA Sample:	Date Analyzed
25°C (00095)	1371 µmho 8/12	-	140 ZOB mg/1	8102
☐ Total non-filterable residue (suspended)		Calcium	4 mg/1	
(00530)	8,25 mg/l	Magnesium U		C)
Other:		-  Ø Sodium	<i>87</i> mg/1	· · · · ·
A-H <sub>2</sub> SO <sub>4</sub>		Bicarbonate	<u>465</u> mg/1	
□ Nitrate-N + , Nitrate-N		Chloride	<u>/2.8</u> mg/1 338 mg/1	
total (00630)  Ammonia-N total (00610)	mg/l mg/l	_		- 1-
☐ Total Kjeldahl-N	المهرا المنافعة المنا	- CON	3/2	- Mary
Chemical oxygen demand (00340)	The grant mg/	N Br	1-134910	8 24
☐ Total organic carbon		- Dation/An	nion Balance	•
☐ Other:		Analyst	Date Reported	Reviewed by
			8 30 88	C
Laboratory remarks				

Phone or Letter?\_

Initals

ANALYI	CATIONS E MEQ.	PPM	DET.	ANALYT	ANIONS  E MEQ.		DET.
Ca Mg Na K	6.99 4.01 3.78 0.10	140.00 48.80 87.00 4.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	7.62 7.04 0.36	465.00 338.00 12.80	
Mn Fe	0.00	0.00	     	NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	14.88	279.80	· / / / / / / / / / / / / / / / / / / /		15.02	815.80	
	Dissolved		950		C No. out/By	2694 = 8801 <del>679</del> 712144	e.G



## SCINTIFIC LABORATORY DIVISION ORGANIC ANALYSIS REQUEST FORM

Organic Section - Phone: 841-2570

REPORT TO:	DAVID BOYER	S.L.D. No. OR-
12) DU	N.M. OIL CONSERVATION DIVISION	
	P.O. Box 2088	PRIORITY
759	Santa Fe, NM 87504-2088	PHONE(s): 827-5812
COLLECTION C		; county: Son Juan
	DATE/TIME CODE: (Year-Month-Day-Hour-Minute)	
LOCATION CO	DE: (Township-Range-Section-Tracts) $  \underbrace{  o   \mathscr{O}   \mathscr{N} + \mathscr{I}}$	
USER CODE:	8 2 2 3 5 SUBMITTER: David	Boyer   CODE:   2   6   0
SAMPLE TYPE	: WATER [X], SOIL [_], FOOD [_], OTHER:	
Samples were portion of the property of the pr	reserved as follows:  No Preservation; Sample stored at room temperature Sample stored in an ice bath (Not Frosen).  Sample Preserved with Ascorbic Acid to remove che Sample Preserved with Hydrochloric Acid (2 drops)  QUESTED: Please check the appropriate box(es) below ver possible list specific compounds suspected or requivered below the purgeable stored in the purgeables of the purgeab	e. dorine residual. /40 ml) v to indicate the type of analytical screens
FIELD DATA:		
Dissolved Oxyge	Conductivity=	——————————————————————————————————————
Sampling Locati	on, Methods and Remarks (i.e. odors, etc.)  Thomas #1, Fish plans  With the results in this block accurately reflect the results	at log opposite
CHAIN OF CU  I certify that t  at (location)	his sample was transferred from	to SUDI R-HILL  n 7/8/88-13:00 and that
	in this block are correct. Evidentiary Seals: Not Seals	
For OCD	use: Date owner notified:	Phone or Letter? Initials



LAB. No.: OR- 1145

This sample was tested using the analytical scree	ening method(s)	checked below:	
PURGEABLE SCREENS		EXTRACTABLE SCREENS	
(753) Aliphatic Headspace (1-5 Carbons)		(751) Aliphatic Hydrocarbons	
(754) Aromatic & Halogenated Purgeables		(755) Base/Neutral Extractables	
(765) Mass Spectrometer Purgeables		(758) Herbicides, Chlorophenoxy acid	
(766) Trihalomethanes		(759) Herbicides, Triazines	
(774) SDWA VOC's I (8 Regulated +)		(760) Organochlorine Pesticides	
		<del></del>	
(775) SDWA VOC's II (EDB & DBCP) Other Specific Compounds or Classes		(761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's)	
Other Specific Compounds or Classes			
<u> </u>		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
AN	ALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
2 (/)	[PPB]		[PPB]
aromatic purguelles			
bensene 1	-8		
Toline	202		
athyl kingelni	NrD.		
D+m-deplene	1,5		
la-wellen	N.D.		
- Pagene	1/2.2		
halvaenated surgealles	A1Di		
- Andraenar Surgenies	NIV		
	-		
	1		
• DETECTION LIMIT • 💥	0528/4	+ DETECTION LIMIT + T	]
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE	THE STATE	D DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW			
		OR WITH APPROXIMATE QUANTITATION	
(		•	
LABORATORY REMARKS:			
			• • • • • • •
CERTIFICA	TE OF ANALY	TICAL PERSONNEL	
Seal(s) Not Sealed Intact: Yes No	Seal(s) broken	by: Mary Co Men date:	
I certify that I followed standard laboratory procedu	res on handling	and analysis of this sample unless otherwise noted	and
that the statements on this page accurately reflect	the analytical r	esults for this sample.	
Date(s) of analysis: 7/22/88 . Analyst's si	gnature:	lay l. Elen	
I certify that I have reviewed and concur with the	analytical resul	ts for this sample and with the statements in this	block.
Reviewers signature: K. Meyer her			



New Mexico Health and Englonment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 — (505) 841-2555 459 N

## GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 7/8/88/NO.W(-2695 CODE 59300	☐ 59600 XX OTHER: 82235
Collection DATS SITE Sample location	
Collection TIME 7	) - I fee fee for for fill fill fill fill fill fill fill fil
Collected by — Person/Agency Double 1000	
Boy /OCD	
ENVIRONMENTAL BUREAU	
SEND NM OIL CONSERVATION DIVISION	
FINAL 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
SAMPLING CONDITIONS	Owner
☐ Bailed ☐ Pump Water level ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Discharge Sample type
pH (00400) Conductivity (Uncorrected)	Water Temp. (00010) Conductivity at 25°C (00094)
9 μmho	28 °C μmho
Field comments Sample Sample Sample o	poposite depeteratos
CAMPI E SISI D TREATMENT Charles and a bound	
SAMPLE FIELD TREATMENT — Check proper boxes  No. of samples	eld with
submitted   No. of samples whole sample  (Non-filtered)   F: Filtered in πε  0.45 μmem	brane filter   A: 2 ml H <sub>2</sub> SO <sub>4</sub> /L added
NA: No acid added □ Other-specify: □ A: 5th	ml conc. HNO3 added
ANALYTICAL RESULTS from SAMPLES	
NA Units Date analyzed	From NS, NA Sample: Date
© Conductivity (Corrected) 876 μmho 8/12	Analyzed
25 Θ (00095)	$\square$ Calcium 124 mg/1 8/p2
☐ Total non-filterable residue (suspended)	Potassium 2 mg/1 7/29
(00530) , mg/l	Magnesium $37.8 \text{ mg/1}$ $8/92$
Other: Lab pH 8.12 8/9  Other:	7/20
□ Other:	
A-H₂SO₄	
□ Nitrate-N + , Nitrate-N	
total (00630) mg/l	
☐ Ammonia-N total (00610) mg/l	
( ) mg/l	D R/7 0.64 Mg/2 8/24
Chemical oxygen / demand (00340) mg/l mg/l	
☐ Total organic carbon mg/l	Cation/Anion Balance
Other:	Analyst Date Reported Reviewed by
☐ Other:	8 30 88 CO
Laboratory remarks	
<u> 1</u>	
FOR OCD USE Date Owner Notified	Phone or Letter? Initals

ANALYI	CATIONS  TE MEQ.	PPM	DET.	ANALY	ANIONS  TE MEQ.	PPM	DET. LIMIT
Ca Mg Na K	6.19 3.10 2.09 0.05	124.00 37.80 48.00 2.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	2.72 6.52 0.14	166.00 313.00 5.00	<1.0 <10.0 <5.0
Mn Fe	0.00	0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	11.43	211.80	!		9.38	484.00	
	Dissolved alance =	Solids= 121.84%	640		WC No. out/By	=8892695 -885088	_



## SCINTIFIC LABORATORY DIVISION

ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

88-1140-C REPORT TO: DAVID BOYER S.L.D. No. OR N.M. OIL CONSERVATION DIVISION DATE REC. P.O. Box 2088 PRIORITY Santa Fe, NM 87504-2088 PHONE(S): 827-5812 COLLECTION CITY: RLOOM Sield : COUNTY: JOHN (1) COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute), 1818101717717 LOCATION CODE: (Township-Range-Section-Tracts) |29W+11|W+3|0+3|1|0 (10N06E24342) USER CODE: | 8 | 2 | 2 | 3 | 5 | SUBMITTER: David Bover CODE: | 2 | 6 | 0 | SAMPLE TYPE: WATER | SOIL | |, FOOD | |, OTHER:\_\_\_\_\_ This form accompanies Septum Vials, Glass Jugs, and/or Samples were preserved as follows: No Preservation; Sample stored at room temperature. ☐ NP: P-Ice Sample stored in an ice bath (Not Frozen). P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual. P-HCI 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 EXTRACTABLE SCREENS (753) Aliphatic Headspace (1-5 Carbons) (751) Aliphatic Hydrocarbons [X] (754) Aromatic & Halogenated Purgeables (755) Base/Neutral Extractables (765) Mass Spectrometer Purgeables (758) Herbicides, Chlorophenoxy acid (766) Trihalomethanes (759) Herbicides, Triazines 774) SDWA VOC's I (8 Regulated +) (760) Organochlorine Pesticides 775) SDWA VOC's II (EDB & DBCP) (761) Organophosphate Pesticides [ (767) Polychlorinated Biphenyls (PCB's) Other Specific Compounds or Classes (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides FIELD DATA: pH=\_\_\_; Conductivity=\_\_\_umho/cm at \_\_\_\_°C; Chlorine Residual=\_\_\_mg/l Depth to water \_\_\_\_ft.; Depth of well \_\_\_\_ft.; Perforation Interval \_\_\_\_\_ft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) I certify that the results in this block accurately reflect the results of my field analyses, observations and Method of Shipment to the Lab: activities.(signature collector): CHAIN OF CUSTODY I certify that this sample was transferred from 11 bouck the statements in this block are correct. Evidentiary Seals: Not Sealed \_ OR Seals Intact: Yes No \_ Signatures

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



LAB. No.: OR- 1140

(753) Aliphatic Headspace (1-5 Carbons)   (754) Azomatic & Hadogenated Purgaciles   (755) Base/Neutral Extractables   (755) Base/Neutral Extractables   (756) Brebriodes, Triastines   (756) Brebriodes, Triastines   (757) Brebriodes   (757) Brebr	This sample was tested using the analytical screen	ning method(s)	checked below:			
COMPOUND(S) DETECTED CONC.  [PPB]    AMAZINETE SULABBELLE   N. D.     ABBREVIATION USED:   N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT TR = 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:   May	(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		(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			
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Seal(s) Not Sealed Intact: Yes No . Seal(s) broken by: May 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: May . May . It is sample and with the statements in this block.	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					
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I certify that I have reviewed and concur, with the analytical results for this sample and with the statements in this block.	I certify that I followed standard laboratory procedure	res on handling	and analysis of this sample unless otherwise noted	and		
I certify that I have reviewed and concur, with the analytical results for this sample and with the statements in this block.	Date(s) of analysis: 7/22/88. Analyst's sig	mature:	Hary C. Elen	<u> </u>		
	/ /			block.		

V	MEXICO	OIL	CONSEI	NOLTAVS	DIVI
	I	TELD	TRIP	REPORT	

I N S P E C T t O N	C L A S S L F i C A T L O M	F A C I L I T Y	U R S	Q U A R T E R H O U R S	Name Charles Time of Departure In the space belo performed, listing	11:00 AM Ti	me of Return	the trip	M Car	No. 8776	
W	0	P	3		One well - 29N- Responded to a at the Mobil Pr ditch discovere to cover a fair and have not ou apparently came empty it, turn	report of pooducing, The d condensate ly large are tlined the from a hole	omas #1. e on the g ea. They perimeters e in the d	A back hound wat were sti . The crip tank	oe di er. 11 di onden	gging a Itappears gging sate	
					UIC		UIC		UIC		
					RFA		RFA	<del></del>	RFA _		
					Other _	45	Other		Other	3	
		. 1823 343 <b>3</b>	10 1134 930 	11		DESID TIGI CLASIFICATI	ti			ENTURE OF SPECIFIC WELL OR EMILIATY RESPECTED	
Γ (* - Τ - '	Hore Pluji Pluji Veti Lijai	ilmi ilm C Tost	Team		related to injection and properties.	jection Control — any ection project,facility injection into any we reduction wells,water injection equipment,pla	o, or well or 1. (5%b, 20dry flows, or pressure		)* 1	D - Drilling D - Production L - Injection D - Combined production/ injection gerations	

C - Combined production/ injection operations S - SWD U - Underground Storage G - Coneral Operation F - Facility or Location M - Hesting O - Other

1 - West Penderer
F - Water flex
B - Hickory or Spill
W - Water Contemination
O - Other reclamation fund. De Indicator some form of enforcement action in the field ( show impositiately below the letter 0,R,or 0.)

R - Importions relating to Peclamation Fund Activity O - Other - Inspections not related to injection or the

### NEW MEXICO OIL CONSERVATION DI FIELD TRIP REPORT

W О	P	3		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.
НО	P	7		
НО	P	2		
		١	2	22 wells - 29N-11&12W -
				Field inspection west of Bloomfield. All ok.
				Mileage Fer Diem Hours UIC UIC UIC
				RFA RFA RFA
				Other 88 Other 6.00 Other 7.5

#### PERMITTE H - Baretespina

r - rlogging

C - Pluming Cleamp T - Well Test

TYPE INSERTION

R - Populi /Washover

T = Water flew

M - Mishap or Spill W - Water Contamination

0 - Other

#### DISTRICT CLASSIFICATION

- U Underground Injection Control any inspection of or related to injection project, facility, or well or resulting from injection into any well. (550, 2ndry injection and production wells,water flows,or pressure tests, surface injection equipment, playping, etc. )
- R Impections relating to Peclamation Fund Activity
- 0 Other Impertions not related to injection or the reclamition fund
- E = indicates were form of enforcement action in the field (them inner listely ledge the letter U.R.or t)

NATURE OF SPECIFIC WELL OR FACILITY INSPICITED

- D Drilling
- P Production 1 Injection
- C Combined production/ injection operations
- 5 SWD U - Underground Storage
- G General Operation Γ - Facility or Location N - Monting
- 0 Other