1R-184

# REPORTS

DATE: 12/15/1986

#### STATE OF NEW MEXICO



#### ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

OLUCAN

TONEY ANAYA GOVERNOR

December 15, 1986

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501-2088 (505) 827-5800

Mr. Joe R. Williams P. O. Box 75285 Albuquerque, NM 87194-0285

Dear Mr. Williams:

Enclosed are the test results from the sampling done by the OCD on October 7, 1986 at your Monument Ranch. The last results were received by us just before Thanksqiving. I will discuss the results for each one of the wells.

Wells 1, 2 and 5 show no traces of any contamination of any type (chlorides or organics). Well 5 would likely be the best producer since it has the greatest well saturated thickness (13 feet). Numbers 1 and 2 are only marginal for production having only 10 and 6 feet of saturated thickness respectively.

Well 3 shows an increase in chloride concentrations. Chloride and total dissolved solids values approach, but do not exceed, state ground water standards (attached). No dissolved organics were detected, but the water has an odor, and a hydrocarbon sheen was seen on the sample. Saturated thickness is 9 feet.

Well 4 has a slight elevation in chloride, and a number of organic contaminants were detected. Benzene was detected at less than 2 parts per billion. The water level in this well seems anomalously high, and I wonder if there is some surface seepage since the saturated thickness is reported as 36 feet. This well is apparently the closest to the site of the Texas-New Mexico pipeline break along your property in February, 1985. The relationship of the spill to water quality in the well, if any, is unknown without further study.

Well No. 6 is definitely contaminated with high chloride and total dissolved solids values. Results of the organic testing were indeterminate. The reported saturated water thickness is only about 3 feet so this well could not be used for production in any event.

Jerry Sexton's letter of August 26, 1985 (attached) discussed the fact thay any current contamination on your property (aside from the Texas-New Mexico February, 1985 break) was likely from something that occurred many years ago. The very thin thickness of water sand does not help matters since any contamination would be concentrated in those zones.

The Texas-New Mexico pipeline break in September, 1984 that contaminated the Monument water well has not caused any contamination on your property and likely will not affect your wells. This is because the company immediately

Bayer Ex6

began oil recovery operations that recovered much of their oil. news is that their investigation showed an immense area of contamination beyond that that could have possibly been caused by their break. discovery led to warnings of likely contamination of the second Monument municipal well which actually occurred this past June. This old contamination, unrelated to the 1984 pipeline break, will continue to move slowly to the southeast. The magnitude of the problem is such that effective containment, recovery, and other remedial action would be economically (if not technologically) unfeasible at this time. In addition, trying to locate and determine responsible parties after 50 years of oil and gas activities in the area would be legally very difficult. Because of these facts, I agree with Mr. Sexton's comment on his August 26, 1985 letter, that additional investigation of this matter would be difficult to undertake.

In summary, wells 1, 2 and 5 should provide sufficient water for domestic uses on the property. An occasional analysis for chloride should be made to detect any adverse water quality changes, and a more complete repeat analysis made if any drastic change (e.g., taste, odor, oil sheen) is noted. The Hobbs OCD office can provide a chloride analysis, and the Santa Fe office can assist if evidence indicates that a more extensive analysis is needed.

Unless other information comes to our attention, this completes our activities at your ranch. If you have any questions, please contact me at the above address, or by phone at 827-5812.

Sincerely,

DAVID G. BOYER

David J. Borger by J. Enlis Hydrogeologist/Environmental Bureau Chief

DGB:dp

Enc.

cc: R. L. Stamets, Director, OCD Jerry Sexton, OCD-Hobbs Representative Gene Samberson

HIGHWAY 80-180 Smile, 4665 · Lea Air Mychuty
County Port Manual MOWEMENT, NM CAPE HWY12 34 5,33 Post Office OPUMP OXX Doile WELL #1 Previously testes Biley WALKER ROAD WATER 

(1) WELLS

Monumi Priville Section 33 and 34 TN 195, RGC 37E

Mn DAVID BOYER. Oil Conservation Director, POB 2088 SANte Pe, 12m 87504 Hebbs H104(8) Monument Intersection Court Huy 22 K = WELLS

÷

VLSDAD HIGHWHY 80-180 smile, 4665 Courty Port Meluit monument, ny INTERSECTION 5 muli CAFE HWY22 Post office & Pump Onck Imila Doyle ·FAUT WELL # Previously tested Billy WALKER ROAD WATER ( WELLS Monumed Randers Scilion 330434

TRIPS, RGC 3TE

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

111		` <u> </u>					
DATE RECEIVED /	13 134 N	AB 11 1-42757	USER 59300	□ 59600 💢 OT	HER: 822	235	
Collection DATE SS 1007		SITE INFORM- ►	Sample location	Villians L	Well	#1 Mon	nument
Collection FIME 5		ATION	Collection site description	***			
Collected by Personii	CALL	.\0CD		· · · · · · · · · · · · · · · · · · ·			
SEND FINAL	State Land	SERVATION DI	, PO Box 2088	3	10) 5	NOV 2 4 19	40)
-	David Bo				OILC	ONSERVATION	: [ D],42:0M
Phoi	ne: 827-58	312			Station/ well code 19	SANTA F	
SAMPLING CO	NDITIONS				Owner *		•
☐ Bailed ☐ Dipped	∑Pump □ Tap	Water level	_	Discharge		Sample type	RB G
pH (00400) ·		Conductivity (Unco	orrected) - Σ Σ μmho	Water Temp. (00010)	9 ℃	Conductivity at 25	PC (00094) μmho
Field comments	Ranch	house i	exll, r	50 Feet Les	So So	in dum	1850
120	Te 191	m Wal	esterel ~	404T, 6"Stel	cosy	4, -) yle	essold
SAMPLE FIELD	TREATMEN	T — Check prop	er boxes				
No. of samples submitted	/ XNI		C. Filtered in	field with A: 2	mi H₂SO₄/	L added	
A: No ac	id added 🗆 (	Other-specify:	□A:	5ml conc. HNO <sub>3</sub> ad	ded 🗀	A: 4ml fumir	ng HNO <sub>3</sub> added
ANALYTICAL	RESULTS from	n SAMPLES					
NF, NA			Units Date analyze	OF HA NE-N	Ц	Units	Date analyzed
Conductivity (9 25°C (00095)	Corrected)		иmho	SC Calcium (00915)  Magnesium (00925)	101.1	mg/l mg/l	10-21
☐ Total non-filter				Sodium (00930)	70.5	mg/l	4
residue (suspe			11	Z Potassium (00935) 台 Bicarbonate (00440)	3.5 1	mg/l 3.3 mg/l	10/27
(00530)	-,		_ mg/l	Chloride (00940)	94		10/30
☐ Other:				Sulfate (00945)	/_3	mg/l	10/30
☐ Other:				Total filterable residue (dissolved) (70300)	; 	72 mg/l	11/5
WE ALL CO				Other: CD2		.+	10/27
NF, A-H₂SO₄				1 × Y 3	/	· 48	11/14
□ Nitrate-N + N total (00630)	litrate-N		mg/l	F, A-H <sub>2</sub> SO <sub>4</sub>			
☐ Ammonia-N to	otal (00610)		mg/l	Nitrate-N +, Nitrate-	N	mg/l	·
☐ Total Kjeldahl-	N		_ mg/l	☐ Ammonia-N dissolve	ed .	_	
☐ Chemical oxy			-	─ (00608) □ Total Kjeldahl-N		mg/l	
demand (003-		<del></del>	_ mg/l	( )		mg/l	
( )							
Cother:				Analyst	Date A	1 4	ewed by
Laboratory remar	1.0				//	1486	47
	KS			***************************************			
						·····	
SLD 726 (12/8	4)		1 /				
·	•	Owner Votif	Fied Dale	, pl			ON YR
Borse	er Cx	4 - 1	Main Sof	Phone or letter	TWEE	Initial:	3
· //		/	2001	many - y	• 0	, ,	

SCIENTIFIC LABORATORY DIVISION

L ENVIRONMENT

- STATE OF NEW MEXICO

011011

700 Camino de Salud NE Albuquerque, NM 87106 841-2570

REPORT TO:	David Boyer	· · ·	S.L.D. No. OR-86-1165 H-15
	N.M. Oil Conservation Division 7 (10)		DATE REC. 10-8-86
•	P. O. Box 2088		1776
	Santa Fe, N.M. 87504-2088	<del></del>	PRIORITY
PHONE(S):	827-5812	USER	CODE: 18   2   2   3   5
SUBMITTER:	David Boyer		CODE: 12   6   0
SAMPLE COLLE	ction code: (YYMMDDHHMMIII) [8 6 / 10	1/21	7/10/5
SAMPLE TYPE:	water 🔼, soil 🔲, food 🔲, other:		CODE:
COUNTY: Le	ea ; CITY: Monumen	1	CODE:
LOCATION COD	E: (Township-Range-Section-Tracts) 1/1915+31	Z15	5+3  3+4 - - (10N06E24342)
ANALYSES REQ	UESTED: Please check the appropriate box(es) below to	indica	ate the type of analytical screens
	er possible list specific compounds suspected or required.		CTD A CT A DI P. CCD CENC
	PURGEABLE SCREENS tic Purgeables (1-3 Carbons)	<del></del>	Aliphatic Hydrocarbons
	tic & Halogenated Purgeables		Organochlorine Pesticides
	Spectrometer Purgeables		Base/Neutral Extractables
(766) Trihalo			Herbicides, Chlorophenoxy acid
	Specific Compounds or Classes		Herbicides, Triazines
			Organochlorine Pesticides
			Organophosphate Pesticides
	· ·		Polychlorinated Biphenyls (PCB's)
			Polynuclear Aromatic Hydrocarbons
			SDWA Pesticides & Herbicides
Remarks:			
FIELD DATA:	<u></u> .		
pH=; Co	onductivity=475umho/cm atC; Chlorine Re	esidual=	=mg/l
Dissolved Oxygen	=mg/l; Alkalinity=mg/l; Flow Rate		
Depth to water	v10ft.; Depth of well50 ft.; Perforation Interval	l	- ft.; Casing: Stool 6
Sampling Location	n, Methods and Remarks (i.e. odors, etc.)	~ .′	- Williams Well#1
	Pump in well sample		
activities.(signatur	e results in this block accurately reflect the results of a	my fiel Method	d analyses, observations and of Shipment to the Lab:
	eserved as follows:		
	No Preservation; Sample stored at room temperature.		
· <del></del> '	Sample stored in an ice bath (Not Frozen).		·
-	Sample Preserved with Sodium Thiosulfate to remove	chlorine	e regidual.
CHAIN OF CUS			
I certify that th	is sample was transferred from		to
at (location)	ол		and that
the statements is	n this block are correct. Evidentiary Seals: Not Sealed		-,
Signatures		· · · - · · ·	
For OCD U	se: Date Owner Notified 12/9/36 Pho	one o	r_Letter? Initials

## · ANALYSES PERFORMED

LAB. No.: OR- 1163

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s)	checked below:			
PURGEABLE SCREENS	EXTRACTABLE SCREENS			
(753) Aliphatic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons			
(754) Aromatic & Halogenated Purgeables	(760) Organochlorine Pesticides			
(765) Mass Spectrometer Purgeables	(755) Base/Neutral Extractables			
(766) Trihalomethanes	(758) Herbicides, Chlorophenoxy acid			
	··			
Other Specific Compounds or Classes	(759) Herbicides, Triazines			
	(760) Organochlorine Pesticides			
	(761) Organophosphate Pesticides			
	[ (767) Polychlorinated Biphenyls (PCB's)			
	(764) Polynuclear Aromatic Hydrocarbons			
	(762) SDWA Pesticides & Herbicides			
•				
ANALYTICA	L RESULTS			
COMPOUND(S) DETECTED CONC.	COMPOUND(S) DETECTED	ONC.		
[PPB]	• •	PPB]		
halogenated purgeaftes (VD)				
aromatic burdenbles ND				
4 7				
,				
		1		
· DETECTION LIMIT · * / OT /	+ DETECTION LIMIT +			
DETECTION DIMIT . 1 / 10 15	+ DETECTION EIMIT + 1			
ABBREVIATIONS USED:				
N D = NONE DETECTED AT OR ABOVE THE STATE	D DETECTION LIMIT			
T R = DETECTED AT A LEVEL BELOW THE STATES	DETECTION LIMIT (NOT CONFIRMED)			
[ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND/	· · · · · · · · · · · · · · · · · · ·			
,	•			
LABORATORY REMARKS:	4.4			
CERTIFICATE OF ANAL	YTICAL PERSONNEL			
Seal(s) Intact: Yes No No Seal(s) broken by:	date:			
I certify that I followed standard laboratory procedures on handlin		nd		
that the statements on this page accurately reflect the analytical r				
Date(s) of analysis:	Lumey			
Date(s) of analysis:///////////////////////////////////	ults for this sample and with the statements in this bl	ock.		
Reviewers signature: 12 2 2 2 2				
<u> </u>				

Attachment - C-103

Guli Oil Corporation - B. V. Culp No. 4-G, 19-19S-37E

#### Repaired 5-1/2" casing leak as follows:

- 1. Pulled tubing.
- 2. Ran 5-1/2" Baker magnesium bridge plug set at 3725'.
- 3. Ran HRC tool. Found top hole between 531' and 563'. Bottom hole between 1547' and 1579'.
- 4. Ran 5-1/2" Howco DM cement retainer set at 1606'.
- 5. Pumped 537 sacks 4% Gel below retainer. Circulated estimated 25 sacks out 7-5/8" bradenhead. Pumped 50 sacks 4% Gel down 10-3/4" casing.
- 6. Waited on cement.
- 7. Ran bit to 1606'. Pressured 5-1/2" casing. Pressure dropped from 500# to 200# in 3 seconds.
- 8. Drilled to 1780'.
- 9. Perforated 5-1/2" casing at 1650' with 2, 1/2" Jet holes. Perforated 5-1/2" casing at 1325' with 2, 1/2" Jet Holes.
- 10. Set DM cement retainer at 1247'.
- 11. Pumped 275 sacks 4% Gel below retainer.
- 12. Waited on cement.
- 13. Tested 5-1/2" casing with 500# for 30 minutes. No drop in pressure.
- 14. Drilled out cement and retainer. Tested 5-1/2" casing with 500# for 30 minutes. No drop in pressure. Drilled out bridge plug.
- 15. Returned well to production.



Attachment - C-103

Gulf Cil Corporation - B. V. Culp No. 5-H, 19-19S-37E

Repaired 5-1/2" casing leak as follows:

- 1. Pulled tubing.
- 2. Ran 5-1/2" Baker Model N magnesium bridge plug on wire line set at 3775'.
- 3. Ran HRC tool. Found top hole between 1735' and 1776' and bottom hole between 2059' and 2090'.
- 4. Ran 5-1/2" Howco DM cement retainer set at 1741'.
- 5. Pumped 540 sacks 4% Gel cement below retainer and out 7-5/8" bradenhead. Circulated estimated 25 sacks cement.
- 6. Pressured 10-3/4" casing with 200# for 15 minutes. No drop in pressure.
- 7. Waited on cement.
- Fressured 5-1/2" casing with 500# for 30 minutes. No drop in pressure.

  REMARKHER REPORT PRESSURE 7-5/8" casing with 300# for 30 minutes.

  No drop in pressure. Ran bit to top cement at 1705'. Drilled cement and retainer from 1705' to 2005'. Pressured 5-1/2" casing at 1850' and at 1950' with 500# for 30 minutes. No drop in pressure. Pressured 5-1/2" casing at 2090'. Pumped 40 bbls water in formation in 15 minutes at 400#.
- 9. Ran 5-1/2" DM cement retainer set at 2008'.
- 10. Pumped 186 sacks Neat cement below retainer. Then pumped 75 sacks Neat in 3 stages. Let cement set 15 minutes on each stage. Squeezed with 700#. Reversed out approximately 48 sacks cement.
- 11. Waited on cement.
- 12. Ran bit to top cement at 1998'. Pressured 5-1/2" casing with 500# for 30 minutes. No drop in pressure. Drilled to 2162'. Pressured 5-1/2" casing at 2050' with 500# for 30 minutes. No drop in pressure. Pressured 5-1/2" casing at 2162' with 500# for 30 minutes. No drop. Drilled out cement and bridge plug from 3765' to 4000'.
- 13. Returned well to production.

#### Attachment- C-103

Gulf Oil Corporation - F. W. Kutter Well No. 1-0, 20-19S-37E

#### Repaired leak in 5-1/2" casing as follows:

1. Pulled rods, pump and tubing.

- 2. Set 5-1/2" bridge plug at 38221. Dumped 2 sacks cement on top of plug.
- 3. Ran HOWTO HRC tool. Found leak between 1220-1252'.

4. Perforated  $5-1/2^n$  casing with 2,  $1/2^n$  holes at  $1300^n$ .

5. Set 5-1/2" cement retainer at 1189'. Pumped 100 sacks 4% Gel. Circulated approximately 10 sacks out 7-5/8" bradenhead. Pumped 235 sacks 4% Gel down 10-3/4" casing in 5 stages.

6. Tested 7-5/8" - 10-3/4" bradenhead with 500# for 30 minutes. No drop in pressure.

7. Drilled cement and retainer from 1189-1308'. Pressure tested 5-1/2" casing with 1000# for 30 minutes. No drop in pressure.

8. Drilled cement and bridge plug at 3812'. Cleaned out to 4007' (total depth).

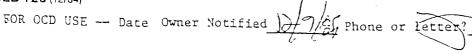
9. Reran tubing, rods and pump. Returned well to production.

New Mexico Health and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE

# GENERAL WATER CHEMISTRY and NITROGEN AND ADDRESS AND A

Alb	uquerque, Ni	M 87106 — (505) 841-	2555		and NITHOG	EN ANALY	515
	5   86 N	AB 11/0-4:34	USER 593	oo □ 59600 💢 o	THER: 82235	;	
Collection DATE		SITE INFORM-	Sample location	Villiams Ro	enth L	vell#2	Monumon
1/03		ATION	Collection site descript	ion			
Collected by — Person/Agen	Sepis	-/OCD			<del>-</del>	गिन्नानिर्ग	
EN' END NM INAL St	/IRONMEN OIL CON ate Land	TAL BUREAU SERVATION DI Office Bidg NM 87504-208	, PO Box 20	88	0	IL CONSERT	2 4 1986 VATION DIVISION
<b>-</b>	David Bo					<u>SA</u>	VTA FE
	827-58	•			Station/	5-37E-	-33.4
SAMPLING CONE		312			Owner	- 0 / 3-	
	Pump	Water level ~	16	Discharge	Sa	mple type	Λ
☐ Dipped ☐	Тар	<u> </u>	497			<u>(</u> )	selo
pH (00400)	<del>-</del> ·	Conductivity (Unc	prrected)  µmhc	Water Temp. (00010)	9 ℃ ℃	enductivity at 25	°C (00094) µmho
Field comments  SAMPLE FIELD T		Approx 2 meter co	ating	<del>z</del> old, ~5	O'deep	(401 M	reasural)
No. of samples				in field with			
submitted /	/ BN	(Non-filtered)		nembrane filter	2 ml H <sub>2</sub> SO₄/L a	dded	
XNA: No acid	idded 🗆	Other-specify:	□ A:	5ml conc. HNO <sub>3</sub> ac	ided □A:	4ml fumir	ng HNO <sub>3</sub> added
ANALYTICAL RES	SULTS from	n SAMPLES					
NF, NA			Units Date analy:	zed F, NA		Units	Date analyzed
Conductivity (Core 25 °C (00095)	ected)	· · · · · · · · · · · · · · · · · · ·	.µmho	<ul> <li>         ∠ Calcium (00915)         ∠ Magnesium (00925)         ∠ Sodium (00930)     </li> </ul>	103 25.4 73.6	mg/l mg/l mg/l	10-21 10-21 10-21
☐ Total non-filterable residue (suspende (00530) ☐ Other: ☐ Other:				<ul> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> </ul>	<u> 23</u> /3/	mg/l mg/l mg/l mg/l	10/27 10/30 10/30
☐ Other:				Total filterable residu (dissolved) (70300)  Other: CO 3		2 ma/l	10/27
NF, A-H <sub>2</sub> SO <sub>4</sub>							
□ Nitrate-N + Nitratotal (00630)	e-N		mg/l	F, A-H <sub>2</sub> SO <sub>4</sub>			
☐ Ammonia-N total ☐ Total Kjeldahl-N	00610)		mg/l	Nitrate-N +, Nitrate dissolved (00631)  Ammonia-N dissolv		mg/l	·
( ) Chemical oxygen		•	_ mg/l	(00608)  Total Kjeldahl-N		mg/l	
demand (00340)  Total organic carb  ( )	on		_ mg/l _ mg/l	( )  Other:		mg/l	
C Other:					(6	Ta Ta	<del></del>
☐ Other:				Analyst	Date Repo	1 1	wed by
Laboratory remarks					1:1/5	1891	
			<u></u>				

SLD 726 (12/84)



164-C

# SCIENTIFIC LABORATORY DIVISION

ENVIRONMENT

STATE OF NEW MEXICO

700 Camino de Salud NE Albuquerque, NM 87184 [341-2570]

REPORT TO:	David Boyer	OCT 3 0 1986 L. D. No. OR- 35-1164 A-B				
	N.M. Oil Conservation Divisipal Dark Pro 15-8-86					
	P. O. Box 2088	OIL CONSERVATION DIVISION SANTA-FE				
	Santa Fe, N.M. 87504-2					
PHONE(S):	827-5812	USER CODE:   8   2   3   5				
SUBMITTER:	David Boyer	CODE: 12   6   0				
	CTION CODE: (YYMMDDHHMMI	TO WE				
SAMPLE TYPE:	WATER SOIL . FOOD	, OTHER:CODE:				
COUNTY:	city:	Monument code:				
LOCATION COD	E: (Township-Range-Section-Tracts	1/1915+3171E+313+41 1 ((10N06E24342)				
	UESTED: Please check the approper possible list specific compounds	priate box(es) below to indicate the type of analytical screens				
•	PURGEABLE SCREENS	EXTRACTABLE SCREENS				
	ic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons				
	ic & Halogenated Purgeables	(760) Organochlorine Pesticides				
[ (765) Mass : (766) Trihalo	Spectrometer, Purgeables	(755) Base/Neutral Extractables				
1	Specific Compounds or Classes	(758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines				
		(760) Organochlorine Pesticides				
		(761) Organophosphate Pesticides				
		(767) Polychlorinated Biphenyls (PCB's)				
旦 —		(764) Polynuclear Aromatic Hydrocarbons				
<u> </u>		(762) SDWA Pesticides & Herbicides				
Remarks:						
		·				
PIELD DATA:						
pH=; Co	nductivity= <u>550</u> umho/cm at _	C; Chlorine Residual= mg/l				
	_ /	mg/l; Flow Rate				
Depth to water	34 ft.; Depth of well $40$	ft.; Perforation Interval ft.; Casing: 8 Steel				
Depth to water	ft.; Depth of well 40	ft.; Perforation Interval ft.; Casing: 8 Steel				
Depth to water	34 ft.; Depth of well 40 n., Methods and Remarks (i.e. odd					
Depth to water	ft.; Depth of well 40	ft.; Perforation Interval ft.; Casing: 8 Steel				
Depth to water  Sampling Locatio  Figure  I certify that the	st ft.; Depth of well 40  n. Methods and Remarks (i.e. odd  Coll appropriate  in this block accurately	ft.; Perforation Interval ft.; Casing: 8 Steel  ors, etc.)  mately 6 times w/small bailes  reflect the results of my field analyses, observations and				
Depth to water  Sampling Locatio  Fig.  I certify that the activities (signature)	and Methods and Remarks (i.e. odd)  And Methods and Remarks (i.e. odd)  And Well Dell Dell Dell Dell Dell Dell Dell	reflect the results of my field analyses, observations and				
Depth to water  Sampling Locatio  Fig.  I certify that the activities (signature)  This form accommoderates accommoderate to the commoderate to th	st.; Depth of well 40  n, Methods and Remarks (i.e. ode  color of the	ft.; Perforation Interval ft.; Casing: 8 Steel  ors, etc.)  mately 6 times w/small bailes  reflect the results of my field analyses, observations and				
Depth to water  Sampling Locatio  LOCATION  I certify that the activities (signature This form accome Samples were presented to the samples were presented t	ft.; Depth of well 40  n. Methods and Remarks (i.e. ode  color of the block accurately  re collector):  panies Septum Vials,  esserved as follows:	reflect the results of my field analyses, observations and  Glass Jugs, and/or  Method of Shipment to the Lab:				
Depth to water  Sampling Locatio  Gaz  I certify that th activities (signature This form accome Samples were property)  NP:	ft.; Depth of well 40  n. Methods and Remarks (i.e. ode  color of the block accurately  re collector):  panies Septum Vials,  reserved as follows:  No Preservation; Sample stored	reflect the results of my field analyses, observations and  Method of Shipment to the Lab:  Glass Jugs, and/or  at room temperature.				
Depth to water  Sampling Locatio  Fig. 1  I certify that th activities (signature This form accome Samples were proposed by P-Ice  P-Na S O	ft.; Depth of well 40  n, Methods and Remarks (i.e. ode  of the control of the co	reflect the results of my field analyses, observations and  Glass Jugs, and/or  at room temperature.  Not Frozen).				
Depth to water  Sampling Locatio  Locatio  I certify that the activities (signature This form accome Samples were proposed P-Ice	ft.; Depth of well 40  n, Methods and Remarks (i.e. ode  of the control of the co	reflect the results of my field analyses, observations and  Method of Shipment to the Lab:  Glass Jugs, and/or  at room temperature.				
Depth to water  Sampling Locatio  Locatio  I certify that the activities (signature This form accome Samples were proposed by P-Ice  P-Na S O  CHAIN OF CUS	ft.; Depth of well 40  n, Methods and Remarks (i.e. ode  of the control of the co	reflect the results of my field analyses, observations and  Glass Jugs, and/or  at room temperature.  Not Frozen).				
Depth to water  Sampling Locatio  Locatio  I certify that the activities (signature This form accome Samples were proposed by P-Ice  P-Na S O  CHAIN OF CUS	ft.; Depth of well 40  n, Methods and Remarks (i.e. ode  of the control of the co	ft.; Perforation Interval				
Depth to water  Sampling Locatio  Control  I certify that the activities (signature This form accome Samples were proposed P-Ice  P-Na S O CHAIN OF CUS  I certify that the at (location)	ft.; Depth of well 40  n. Methods and Remarks (i.e. ode  control of the control  e results in this block accurately  e collector):  panies Septum Vials,  esserved as follows:  No Preservation; Sample stored  Sample stored in an ice bath (  Sample Preserved with Sodium  GTODY  is sample was transferred from	ft.; Perforation Interval				
Depth to water  Sampling Locatio  Control  I certify that the activities (signature This form accome Samples were proposed P-Ice  P-Na S O CHAIN OF CUS  I certify that the at (location)	ft.; Depth of well 40  n. Methods and Remarks (i.e. ode  control of the control  e results in this block accurately  e collector):  panies Septum Vials,  esserved as follows:  No Preservation; Sample stored  Sample stored in an ice bath (  Sample Preserved with Sodium  GTODY  is sample was transferred from	ft.; Perforation Interval				
Depth to water  Sampling Locatio  I certify that th activities (signature This form accomes Samples were proposed by P-Ice P-Na S O CHAIN OF CUS I certify that the at (location) the statements in	ft.; Depth of well 40  n. Methods and Remarks (i.e. ode  control of the control  e results in this block accurately  e collector):  panies Septum Vials,  esserved as follows:  No Preservation; Sample stored  Sample stored in an ice bath (  Sample Preserved with Sodium  GTODY  is sample was transferred from	ft.; Perforation Interval				

### ANALYSES PERFORMED

LAB. No.: OR- //64

### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ing method(s)	checked below:	<del></del>
PURGEABLE SCREENS  (753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables  (765) Mass Spectrometer Purgeables  (766) Trihalomethanes  Other Specific Compounds or Classes		EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (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	
ANA	ALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
The Alburga Rose	ALO		[PPB]
palogenaled purgeables	100		
aromalic pur eables	VV	·	
/ 5			
·			
			:
• DETECTION LIMIT • *	2006	+ DETECTION LIMIT +	
		+ BBIBOTION BINITI + 1	\
ABBREVIATIONS USED:  N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [ RESULTS IN BRACKETS ] ARE UNCONF	THE STATED	DETECTION LIMIT (NOT CONFIRMED)	
LABORATORY REMARKS:	,	444	
annung.	CD OD 4314131	THE LET PROPERTY OF THE PROPER	
		TICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken by		date:	
I certify that I followed standard laboratory procedu that the statements on this page accurately reflect t			and
Date(s) of analysis:			
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: & Mayarhit			

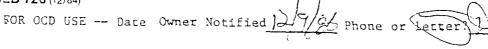
New Mexical ealth and Environment Department SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 -- (505) 841-2555

# 1 1 GENERAL WATER CHEMISTRY

Boye	4
EX	7

111- /woodserdes: 11	(111)					
DATE RECEIVED 1/0 13 186	LAB 1/21-4841	USER 5930	o 59600 XX	<sub>ОТНЕЯ:</sub> 822	.35	
SOLI / DID	SITE	Sample location		Ronal	1,22/2 #A	# #
Collection TIMES X	INFORM- ► ATION	t				
Collected by — Person/Agency		Collection site descripti	on 🤾	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1soys / sery	.\0CD			1		
				<del>  기메기</del> 위	더됩니까	
1114 ATL COL	NTAL BUREAU NSERVATION DIN	ITSTON		1-11		<del>, 111</del>
END NM UIL CUN INAL State Land	i Office Bldg.	. PO Box 208	38	1 1111 1	10V 2 4 1986	)    (
EPORT Santa Fe,	NM 87504-208	8		7111		,
Attn: <u>David B</u> c				-OIL CON	ISERVATION L	7191210
77(11				Station/	SANTA FE	-7
Phone: 827-5	312			well code 15	S-37E-	<u> </u>
AMPLING CONDITIONS				Owner		
Bailed Pump	Water level	25/	Discharge		Sample type	
Ú Dipped ☐ Tap		32,	<del> </del>			20%
pH (00400)	Conductivity (Unco	prrected)  µmho	Water Temp. (00010)	8-5 °C	Conductivity at 25	<b>.</b> C (000∂
Reld comments		722		<u> </u>	11101-	
- Appr	05)4.	4 FIC	N, 74/ 52	deep	6"1"/C	Got
0d87	Hydro	carles	n cheen	/		
	7 /					
AMPLE FIELD TREATMEN		F-11.	- f' . l.d 'Al-		· · · · · · · · · · · · · · · · · · ·	
No. of samples submitted /	(Non-filtered)		n field with	2 ml H₂SO₄/L	_added	
<del></del>	<del></del>	□A:		ddod 🗖 A	. /ml famin	a UNO
	Other-specify:	l⊷ A÷	5ml conc. HNO <sub>3</sub> a	dded	: 4ml fumin	IS MIO
NALYTICAL RESULTS from						
NF, NA		Units Date analyz		1//0	Units	Date
Conductivity (Corrected) 25°C (00095)	,	umho	Calcium (00915)  Magnesium (00925	<u>j40</u>	mg/l _ mg/l _	10
			Sodium (00930)	-161	mg/i	7,
☐ Total non-filterable residue (suspended)			Potassium (00935)	7.0	ma/l	
(00530)		mg/l	Bicarbonate (0044)	o) <u>35</u>	,	10.
Other:			Chloride (00940)  Sulfate (00945)		1119/1 -	
C Other:			Total filterable residu		18_ ma/l	
C Other:			(dissolved) (70300)		mg/l _	
NF, A-H₂SO₄			$\mathbb{Z}$ Other: $\mathbb{C}$ $\mathbb{Z}$			/C
□ Nitrate-N+, Nitrate-N			F, A-H <sub>2</sub> SO <sub>4</sub>			
total (00630)		mg/l	□ Nitrate-N+, Nitrate	N		
Ammonia-N total (00610)		mg/l	dissolved (00631)	-A	mg/l	·
Total Kjeldahl-N ( )		mg/l	Ammonia-N dissolv	ved		
☐ Chemical oxygen		-	(00608)  ☐ Total Kjeldani-N		mg/l	·'
demand (00340)  Total organic carbon		mg/l	- ( )		mg/l	
( ) ——	***************************************	mg/l	Other:			
C Other:			Analyst	Date Re	nonted Paus	wed by
Other:			-   Allalyst	1 . 1	2 86 C	wed by
Laboratory remarks	· · · · · · · · · · · · · · · · · · ·			1//_//	013016-	<u></u>
			·	·····	***************************************	

SLD 726 (12/84)



¢ .	01057
6- 1162-C	SCIENTIFIC LABORATORY DIVISION 700 Camino de Salud NE Albuquerque, NM 87106 841-2570  STATE OF NEW MEXICO
REPORT TO:	David Boyer  N.M. Oil Conservation Division 1936 DATE REC. 10-8-86  P. O. Box 2088
	Santa Fe, N.M. 87504-2088  827-5812  David Boyer  CODE: 12   6   0    CTION CODE: (YYMMDDHHMMII)   8   6   1   0   0   0   0   0   0   0   0   0
COUNTY: LO	WATER X, SOIL , FOOD , OTHER: CODE:
required. Wheneve  (753) Aliphati  (754) Aromati  (765) Mass S  (766) Trihalor	TESTED: Please check the appropriate box(es) below to indicate the type of analytical screens r possible list specific compounds suspected or required.  PURGEABLE SCREENS c Purgeables (1-3 Carbons)
Depth to water  Sampling Location  Color  I certify that the activities (signature This form accomp	panies Septum Vials, Glass Jugs, and/or

Depth to water Sampling Location, Me I certify that the resu activities.(signature coll-This form accompanies Samples were preserved NP: No Preservation; Sample stored at room temperature. P-Ice Sample stored in an ice bath (Not Frozen). P-Na S O Sample CHAIN OF CUSTODY Sample Preserved with Sodium Thiosulfate to remove chlorine residual. I certify that this sample was transferred from and that on \_ the statements in this block are correct. Evidentiary Seals: Not Sealed \_\_\_ Seals Intact: Yes \_\_\_ No \_\_\_ Signatures \_ For OCD Use: Date Owner Notified 10 Phone or Letter

# ANALYSES PERFORMED

LAB. No.: OR- 1/6Z

# TIMS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:					
PURGEABLE SCREENS	EXTRACTABLE SCREENS				
(753) Aliphatic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons				
(754) Aromatic & Halogenated Purgeables	(760) Organochlorine Pesticides				
(765) Mass Spectrometer Purgeables	(755) Base/Neutral Extractables				
	(758) Herbicides, Chlorophenoxy acid				
(766) Trihalomethanes					
Other Specific Compounds or Classes	(759) Herbicides, Triazines				
	(760) Organochlorine Pesticides				
	(761) Organophosphate Pesticides				
	(767) Polychlorinated Biphenyls (PCB's)				
	(764) Polynuclear Aromatic Hydrocarbons				
	(762) SDWA Pesticides & Herbicides				
ANALYTIC	AL RESULTS				
COMPOUND(S) DETECTED CONC.	COMPOUND(S) DETECTED CONC.				
PPBI	[PPB]				
1 / 1/2 / 1/2					
nalogenated Annaeattes 100					
grome tic burges fles NO					
coromatic purglates 100					
* 1 7					
· DETECTION LIMIT · * //ppb	+ DETECTION LIMIT +				
ABBREVIATIONS USED:					
N D = NONE DETECTED AT OR ABOVE THE STAT	PD DETECTION LIMIT				
T R = DETECTED AT A LEVEL BELOW THE STAT					
	· ·				
[ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND	D/OR WITH APPROXIMATE QUANTITATION				
LABORATORY REMARKS:					
	4				
	h				
CERTIFICATE OF ANA	ALYTICAL PERSONNEL				
Seal(s) Intact: Yes No . Seal(s) broken by:	date:				
I certify that I followed standard laboratory procedures on hand					
that the statements on this page accurately reflect the analytica					
for the analytical	The time sample.				
Date(s) of analysis: 10-10-16. Analyst's signature:	Huney				
I certify that I have reviewed and concur with the analytical re	esults for this sample and with the statements in this block				
//\					
Reviewers signature: Knouga					



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

# GETTAL WATER CHEMISTRY aNITROGEN ANALYSIS

1 (		Name and Address of the Owner, where the Owner, which is the Owner,					
DATE RECEIVED	13	AB	CODE 59300	☐ 59600 ŽX OTH	1ER: 822	235	
Collection DATE	1 14		Sample location /	7 . 7	- //	1 00-4-0	- n1-
8010107		SITE	4	Ulliams Re	ende;	LIELD'S	Monumory
Callection TIME		ATION			· ·		
12301			Collection site description				*
Collected by Person Agency	1000	4 /OCD		Δ'		<del></del>	
15mg	[ea	7000					
				Ì		الماليات المستان	(3)40)
EMVI	DUNNEN	TAL BUREAU	•		الح الرام كي		4-1111
C14 A 1	TI COM	SERVATION DI	VISION	-	المارية المارية		
SEND NM	TE COM	SEKANTON DI	DU BOY 3088	,  -	1116		10 - 11 L
FINAL Stat	e Land	UTTICE Blug-	, PO Box 2088	'  -	<del>- 11/11</del>	₩0 <del>₩ 3 ₹ 196</del>	99-11111
Sant	ta Fe, i	NM 87504-208	8	-	<del></del>	1112	
				1_	<u> </u>		1000000
Attn:Da	ATO BO	<u> </u>			CIL CO	NOENTALLOR	
							33.4
Phone:	827-58	312 .		<u></u>		3-3/1/-	72, t
SAMPLING CONDIT	TIONS			ļ.º	wner		€.
		· · · · · · · · · · · · · · · · · · ·					
	amb	Water level	77/	Discharge		Sample type	
□ Dipped □ □ Ti	ap qe		<del>✓</del> ✓			().	120 5
pH (00400)		Conductivity (Unco	rrected)	Water Temp. (00010)	, .	Conductivity at 25	5°C (00094)
·		1 4	フィ μmho	· /	'8 °C		$\mu$ mho
Field comments /	11 011	<u> </u>	<del> </del>		111	·	
Field Comments	" []][	Casin,	4 TOTOL	dente V	<i>O</i> .		
			- Julius Stade	- Congression			
							· · · · · · · · · · · · · · · · · · ·
SAMPLE FIELD TR	EATMEN	T — Check prope	er boxes				•
No. of samples ,		1401	C'14 1 ' -	field with			
submitted	ZN	F: Whole sample (Non-filtered)		nbrane filter	n H2SO4/	L added	-
3dDiffitted /		(NON-IIIGIGG)	υ.45 μιποι	TIOTALIO IIIOI		<del> </del>	<del> </del>
A: No acid ad	ded □ (	Other-specify:	□A:	Sml conc. HNO, add	ed 🗆 🛭	4: 4ml fumi	ng HNO, added
					<b>_u</b>		
		· · · · · · · · · · · · · · · · · · ·		3			3
<del></del>				3			
ANALYTICAL RESU						Units	Oate analyzed
ANALYTICAL RESU	ILTS from		Units Date analyzed	IIF, NA		Units	Oate analyzed
NF, NA  Conductivity (Correct	ILTS from	n SAMPLES	Units Date analyzed	1 F. NA  Calcium (00915)		Units mg/l	Oate analyzed
ANALYTICAL RESU	ILTS from	n SAMPLES		IIF, NA			Oate analyzed
NF. NA  Conductivity (Correct 25°C (00095)	ILTS from	n SAMPLES	Units Date analyzed	1 F. NA  Calcium (00915)	80 50. - 92.		Oate analyzed
NF, NA  Conductivity (Correct 25°C (00095)	ILTS from	n SAMPLES	Units Date analyzed	d F, NA  Calcium (00915)  Magnesium (00925)			Oate analyzed
ANALYTICAL RESUME. NF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended)	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935)		Units  mg/l  5 mg/l  C mg/l  mg/l	Oate analyzed
NF, NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)		Units	Oate analyzed
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended)	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)	80 50. 92. 4 -20 63	Units	0ate analyzed  /02/ // // // // // // // // // // // // /
NF, NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)	80 50. 92. 4 -20 63	Units	Oate analyzed  /O O/  //  //  //  //  //  //  //  //
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530) Other: Other:	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue	80 50: 92: 4 -26 43	Units  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	0ate analyzed  /02/ // // // // // // // // // // // // /
NF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other:	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300)	80 50. 92. 4 -26 63 75	Units  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other:	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue	80 50. 92. 4 -26 63 75	Units  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	0ate analyzed  /02/ // // // // // // // // // // // // /
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF, A-H <sub>7</sub> SO <sub>4</sub>	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	80 50. 92. 4 -26 63 75	Units  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300)	80 50. 92. 4 -26 63 75	Units  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>7</sub> SO <sub>4</sub>	ILTS from	n SAMPLES	Units Date analyzed	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub>	80 50. 92. 4 -26 63 75	Units  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-	ILTS from	n SAMPLES	Units Date analyzed μmho	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N	80 50. 92. 4 -26 63 75	Units  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF, A-H <sub>7</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (00	ILTS from	n SAMPLES	Units Date analyzed  µmho  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N dissolved (00631)	80 50 92 4 -36 63 75	Units  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>7</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)	ILTS from	n SAMPLES	Units Date analyzed  µmho  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved	80 50 92 4 -36 63 75	Units  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>7</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (0050)  Total Kjeldani-N	ILTS from	n SAMPLES	Units Date analyzed  µmho  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)	80 50 92 4 -36 63 75	Units  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (0050)  Total Kjeldani-N	ILTS from	n SAMPLES	Units Date analyzed  µmho  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved	80 50 92 4 -36 63 75	Units  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (00501)  Total Kjeldani-N ( ) Chemical oxygen demand (00340)	nted)	n SAMPLES	Units Date analyzed  µmho  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)	80 50 92 4 -36 63 75	Units  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>7</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (00530)  Total Kjeldanl-N ( ) Chemical oxygen demand (00340)  Total organic carbon	nted)	n SAMPLES	Units Date analyzed μmho  mg/l  mg/l  mg/l  mg/l  mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other:  F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldanl-N	80 50 92 4 -36 63 75	### Units  ###################################	0ate analyzed  1001  11  1022  1030  10/30  11/5
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (00 Total Kjeldani-N ( )  Chemical oxygen demand (00340)  Total organic carbor ( )	nted)	n SAMPLES	Units Date analyzed  µmho  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	80 50 92 4 -36 63 75	### Units  ###################################	0ate analyzed  1001  11  1022  1030  10/30  11/5
NF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>7</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (00 Total Kjeldani-N ( ) Chemical oxygen demand (00340)  Total organic carbor ( ) Other:	nted)	n SAMPLES	Units Date analyzed μmho  mg/l  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	\$0 \$0 92 4 -30 63 75 5	### Units  ###################################	0 ate analyzed  10 2/  " " 10 27  10 30  10 / 30  11 / 5  10 / 27
ANALYTICAL RESUNF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (00 Total Kjeldani-N ( )  Chemical oxygen demand (00340)  Total organic carbor ( )	nted)	n SAMPLES	Units Date analyzed μmho  mg/l  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	\$0 \$0. 92. 4 -36 63 75 5	### Units  ###################################	Oate analyzed  10 0/  11
NF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>7</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (00530)  Total Kjeldani-N ( ) Chemical oxygen demand (00340)  Total organic carbor ( ) Other: Other:	nted)	n SAMPLES	Units Date analyzed μmho  mg/l  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	\$0 \$0. 92. 4 -36 63 75 5	### Units  ###################################	Oate analyzed  10 0/  11
NF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>7</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (00 Total Kjeldani-N ( ) Chemical oxygen demand (00340)  Total organic carbor ( ) Other:	nted)	n SAMPLES	Units Date analyzed μmho  mg/l  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	\$0 \$0. 92. 4 -36 63 75 5	### Units  ###################################	Oate analyzed  10 0/  11
NF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>7</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630) Ammonia-N total (00 Total Kjeldani-N () Chemical oxygen demand (00340)  Total organic carbor () Other: Other:	nted)	n SAMPLES	Units Date analyzed μmho  mg/l  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	\$0 \$0. 92. 4 -36 63 75 5	### Units  ###################################	Oate analyzed  10 0/  11
NF. NA  Conductivity (Correct 25°C (00095)  Total non-filterable residue (suspended (00530)  Other: Other: Other: NF. A-H <sub>7</sub> SO <sub>4</sub> Nitrate-N + Nitrate-total (00630)  Ammonia-N total (00530)  Total Kjeldanl-N ( ) Chemical oxygen demand (00340)  Total organic carbor ( ) Other: Other:	nted)	n SAMPLES	Units Date analyzed μmho  mg/l  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	\$0 \$0. 92. 4 -36 63 75 5	### Units  ###################################	Oate analyzed  10 0/  11
NF. NA  □ Conductivity (Correct 25°C (00095)  □ Total non-filterable residue (suspended (00530) □ Other: □ Other: □ Other: □ Nitrate-N + Nitrate-total (00630) □ Ammonia-N total (000000000000000000000000000000000000	nted)	n SAMPLES	Units Date analyzed μmho  mg/l  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	\$0 \$0. 92. 4 -36 63 75 5	### Units  ###################################	Oate analyzed  10 0/  11
NF. NA  ☐ Conductivity (Correct 25°C (00095)  ☐ Total non-filterable residue (suspended (00530)  ☐ Other: ☐ Other: ☐ Other: ☐ Nitrate-N + Nitrate-total (00630) ☐ Ammonia-N total (00 Total Kjeldanl-N ( ) ☐ Chemical oxygen demand (00340) ☐ Total organic carbon ( ) ☐ Other: ☐ Other: ☐ Other:	nted)	n SAMPLES	Units Date analyzed μmho  mg/l  mg/l  mg/l  mg/l  mg/l	Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved (00608)  Total Kjeldahl-N	\$0 \$0. 92. 4 -36 63 75 5	### Units  ###################################	Oate analyzed  10 0/  11

SLD 726 (12/84)

FOR OCD USE -- Date Owner Motified

Phone or tetter

Initials

86-1166-C

# SCIPITIFIC LABORATORY DIVISION

700 Camino de Salud NE Albuquerque, NM 87106 841-2570



STATE OF NEW MEXICO

S.L.D. No. OR- 80-1100 A 3 David Boyer REPORT TO: N.M. Oil Conservation Division. DATE REC. P. O. Box 2088 011061 Santa Fe, N.M. 87504-2088 PRIORITY USER CODE: | 8 | 2 | 2 | 3 | 5 | 827-5812 PHONE(S): David Boyer CODE: 12 | 6 | 0 | SUBMITTER: SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 18/6/10/017/1 12/3/01/8/5/1 \_CODE: [ \_ | | | SAMPLE TYPE: WATER SOIL , FOOD , OTHER:\_\_\_\_ COUNTY: Lea ; CITY: Monument CODE: | LOCATION CODE: (Township-Range-Section-Tracts) 1/1915+313+41-1-1(10N06E24342) 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 Purgeables (1-3 Carbons) (751) Aliphatic Hydrocarbons (754) Aromatic & Halogenated Purgeables (760) Organochlorine Pesticides (765) Mass Spectrometer Purgeables (755) Base/Neutral Extractables (766) Trihalomethanes [ (758) Herbicides, Chlorophenoxy acid Other Specific Compounds or Classes (759) Herbicides, Triazines (760) Organochlorine Pesticides [761] Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (784) Polynuclear Aromatic Hydrocarbons (782) SDWA Pesticides & Herbicides pH= ; Conductivity= 475 umho/cm at 18 °C; Chlorine Residual= mg/l Dissolved Oxygen= mg/l; Alkalinity= mg/l; Flow Rate \_\_\_\_\_ Depth to water 27 ft.; Depth of well 40 ft.; Perforation Interval \_\_\_\_ ft.; Casing: 6 PUC Sampling Location, Methods and Remarks (i.e. odors, etc.) Williams Ranch 100045 Basked approx 6 times W/1" PVC Back I certify that the results in this block accountably reflect the results of my field analyses, observations and activities (signature collector): Agriff Reliff Method of Shipment to the Lab: Hand This form accompanies \_\_\_\_ Septum Vials, \_\_\_\_ Glass Jugs, and/or Samples were preserved as follows: No Preservation; Sample stored at room temperature. P-Ice Sample stored in an ice bath (Not Frozen). P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorine residual. CHAIN OF CUSTODY I certify that this sample was transferred from \_\_\_\_\_\_ on \_\_\_\_\_\_\_\_\_ - \_\_\_\_\_\_ and that the statements in this block are correct. Evidentiary Seals: Not Sealed \_ Seals Intact: Yes \_ No \_

For OCD Use: Date Owner Notified 12/9/86 Phone or (Letter?) # Initials

LAB. No.: OR- 1166

#### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening meth	od(s) checked below:				
PURGEABLE SCREENS  (753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables  (765) Mass Spectrometer Purgeables  (766) Trihalomethanes  Other Specific Compounds or Classes	EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (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.	COMPOUND(S) DETECTED CONC. [PPB]				
1 -4 1/2 W NO					
patogenaled purgeaties (VI)					
aromatic burgeaftes NU	· · · · · · · · · · · · · · · · · · ·				
·					
	.				
• DETECTION LIMIT • * 2 PM					
DETECTION LIMIT · 1 /2 pp	b   + DETECTION LIMIT + T				
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: 6 ppb toluene was prisent in one of the displicate damples, but that appears to be lab contamination.					
CERTIFICATE OF A	NALYTICAL PERSONNEL				
Seal(s) Intact: Yes No . Seal(s) broken by:	date:				
I certify that I followed standard laboratory procedures on he					
that the statements on this page accurately reflect the analyt					
Date(s) of analysis: 11-11-86 10-16-86. Analyst's signature:	$\mathcal{Y}_{2}$				
	<i>, ,</i> , , , , , , , , , , , , , , , ,				
1/5	results for this sample and with the statements in this block.				
Reviewers signature: 1 May 100					



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

#### GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED ///	S 152 180	NB 471-4833 USER CODE	59300	☐ 59600 XX OT	HER: 822	235				
Collection DATE		SITE   Sample   INFORM-   ATION		11, ams Ronch		#6, Mos	sument			
Collected by Person/Age	ency / 5e/		on site description		নীন	是是是				
ENVIRONMENTAL BUREAU  SEND NM OIL CONSERVATION DIVISION State Land Office Bldg, PO Box 2088 REPORT TO Santa Fe, NM 87504-2088  Attn: David Boyer					CILC	NOV & 4 TS NOV & 4 TS CONSERVATION SANTA?	1. DIVISION			
Phone: 827-5312				]		5-375-	33.3			
SAMPLING CON	IDITIONS				Owner					
1	Pump Tap	Water level		Discharge			ral			
pH (00400)		Conductivity (Uncorrected	μmho	Water Temp. (00010)	°C	Conductivity at 25	°C (00094) µmho			
Field comments	ligitat	theen, A	mo	odoj 1	75~	241				
SAMPLE FIELD	TREATMEN	T — Check proper boxe	es							
No. of samples submitted	No. of samples / Whole sample   F: Filtered in field with   A: 2 ml H <sub>2</sub> SO <sub>4</sub> /L added									
MA: No acid added ☐ Other-specify: ☐ A: 5ml conc. HNO <sub>3</sub> added ☐ A: 4ml fuming HNO <sub>3</sub> added										
				THE COILC. INTO 3 add	red Cla	t. The runti	.5 11103 4444			
ANALYTICAL R	ESULTS from	1 SAMPLES			red CP					
NF, NA		1 SAMPLES	Date analyzed	F, NA	red	Units	Date analyzed			
NF. NA  Conductivity (Co. 25 °C (00095)	orrected)	1 SAMPLES			11.K 2.9 3.92		Date analyzed    (0-2)     (0-3)			
NF, NA  Conductivity (Conductivity (Conducti	orrected)	n SAMPLES Units (		F. NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)		Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Date analyzed  /U-⊋/ /g-2/			
NF, NA  Conductivity (Co. 25°C (00095)  Total non-filteral residue (susper (00530)  Other: Other:	orrected)	n SAMPLES Units ( μmho		F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue	11.2 2.9 3.92 24.9 93	Units  mg/l mg/l mg/l mg/l mg/l fd/ mg/l gd/ mg/l mg/l mg/l	Date analyzed   U=2   (0-2   (0-3   (			
NF, NA  Conductivity (Conductivity (Conductivity) Conductivity (Conductivity) Conducti	orrected)	n SAMPLES Units ( μmho		F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)	11	Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed    (0 - 2)     (0 - 3)     (0 - 3)     (0 - 3)     (0   2   7     (0   3   9			
NF, NA  Conductivity (Conductivity (Conductivity)  Total non-filteral residue (suspen (00530))  Other: Other: Other: NF, A-H <sub>2</sub> SO <sub>4</sub>	ble ided)	n SAMPLES Units ( μmho		F. NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)	11	Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed    (U = 7     (0 - 2     (0 - 2     (0 - 2     (0   2 = 7     (0   3     (			
NF, NA  Conductivity (Conductivity (Conductivity)  Total non-filteral residue (susper (00530))  Other: Other: Other:	orrected) ble nded)	n SAMPLES Units ( μmho	Date analyzed	F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub>	11. K 2.9 3.92 24.9 ————————————————————————————————————	Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed   U-2   (0-2   (0-3   (			
NF, NA  □ Conductivity (Conductivity (Conductivity (Conductivity) □ Total non-filteral residue (suspendo) □ Other: □ Other: □ Other: □ Other: □ NF, A-H <sub>2</sub> SO <sub>4</sub> □ Nitrate-N + Nitrotal (00630) □ Ammonia-N total (Total Kjeldani-N	orrected)  ble aded)  rate-N  al (00610)	mg/l	Date analyzed	F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  F, A-H <sub>2</sub> SO <sub>4</sub>	11.4 2.9 3.92 24.9 ————————————————————————————————————	Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed   U-2   (0-2   (0-3   (			
NF, NA  □ Conductivity (Co 25°C (00095)  □ Total non-filteral residue (susper (00530) □ Other: □ Other: □ Other: □ NF, A-H <sub>2</sub> SO <sub>4</sub> □ Nitrate-N + Nit total (00630) □ Ammonia-N total (00630) □ Total Kjeldant-N ( ) □ Chemical oxygedemand (00340)	rate-N	mg/l	Date analyzed	F, NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00940)  Sulfate (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolved	11.4 2.9 3.92 24.9 ————————————————————————————————————	Units  mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/	Date analyzed   U-2   (0-2   (0-3   (			
NF, NA  □ Conductivity (Conductivity (Conductivity (Conductivity) □ Total non-filteral residue (susper (00530)) □ Other: □ Other: □ Other: □ Other: NF, A-H <sub>2</sub> SO <sub>4</sub> □ Nitrate-N + , Nit total (00630) □ Ammonia-N total (00630) □ Ammonia-N total (00630) □ Chemical oxygen	rate-N	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Date analyzed	F. NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolve (00608)  Total Kjeldani-N ( )  Other:	11.2 2.9 3.92 24.9 2	Units  mg/l mg/l mg/l mg/l mg/l  A mg/l  A mg/l  Mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	Date analyzed   U-2   (0-2   (0-3   (			
NF, NA  □ Conductivity (Cr 25°C (00095)  □ Total non-filteral residue (susper (00530) □ Other: □ Other: □ Other: □ Other: □ Nitrate-N + , Nit total (00630) □ Ammonia-N total □ Total Kjeldani-N (     ) □ Chemical oxyge demand (00340) □ Total organic ca (     )	rate-N	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Date analyzed	F. NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolve (00608)  Total Kjeldani-N	9 2 4.9 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Units  mg/l mg/l mg/l mg/l mg/l  A mg/l  A mg/l  Mg/l  mg/l  mg/l  mg/l  mg/l  mg/l  mg/l	Date analyzed   U-2   (0-2   (0-3   (			
NF, NA  □ Conductivity (Co. 25°C (00095) □ Total non-filteral residue (susper (00530) □ Other: □ Other: □ Other: □ NF, A-H <sub>2</sub> SO <sub>4</sub> □ Nitrate-N + Nit total (00630) □ Ammonia-N total (00630) □ Ammonia-N total (00630) □ Chemical oxygedemand (00340) □ Total organic cal ( ) □ Other:	rate-N al (00610)  en irbon	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Date analyzed	F. NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolve (00608)  Total Kjeldani-N ( )  Other:	9 2 4.9 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Units    mg/l   mg/l	Date analyzed   U-2   (0-2   (0-3   (			
NF, NA  □ Conductivity (Conductivity (Condu	rate-N al (00610)  en irbon	mg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/lmg/l	Date analyzed	F. NA  Calcium (00915)  Magnesium (00925)  Sodium (00930)  Potassium (00935)  Bicarbonate (00440)  Chloride (00945)  Total filterable residue (dissolved) (70300)  Other:  Nitrate-N + Nitrate-N dissolved (00631)  Ammonia-N dissolve (00608)  Total Kjeldani-N ( )  Other:	9 2 4.9 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Units    mg/l   mg/l	Date analyzed   U-2   (0-2   (0-3   (			

SLD 726 (12/84)

FOR OCD USE -- Date Owner Notified 12/0/ Bephone or Letters

86-1159-C

# SCIENTIFIC LABORATORY DIVIS 700 Camino de Salud NE Albuquerque, NM 87106 841-2570



STATE OF NEW MEXICO

REPORT TO:	David Boyer	S.L.D. No. OR-	36-1134 6-3
	N.M. Oil Conservation Division -	DATE REC.	13-8-83
	P. O. Box 2088		01100A
	Santa Fe, N.M. 87504-2088	PRIORITY	ATT AAA
PHONE(S):	827-5812 us	ER CODE:   8   2	2 3 5
SUBMITTER:	David Boyer	CODE: [2   6	0
SAMPLE COLLE	CTION CODE: (YYMMDDHHMMIII)   8   6   1   0   6	171/13012	1/1/1/1
	WATER SOIL , FOOD , OTHER:	CODE:	
COUNTY:	1 30 ; CITY: Manume	od code:	
	E: (Township-Range-Section-Tracts) 195+317		
	QUESTED: Please check the appropriate box(es) below to in	dicate the type of ana	lytical screens
required. Whenev	er possible list specific compounds suspected or required. PURGEABLE SCREENS	EXTRACTABLE SCR	FENS
(753) Alipha		51) Aliphatic Hydrocar	
		60) Organochlorine Pes	
(765) Mass		55) Base/Neutral Extra	1
(766) Trihale	omethanes [ ] (7	58) Herbicides, Chlorop	henoxy acid
Other	Specific Compounds or Classes [7]	59) Herbicides, Triazine	:4
		60) Organochlorine Pest	
		61) Organophosphate P	1
		67) Polychlorinated Bip	
		64) Polynuclear Aromai 62) SDWA Pesticides i	1
<u> </u>		oz, JDWA restrictues a	z neroicides
Remarks:			
FIELD DATA:	in (1)		
pH=; Co	onductivity= <u>1750</u> umho/cm at <u>18</u> °C; Chlorine Reside	ual=mg/l	
	mg/l; Alkalinity= mg/l; Flow Rate	*	140110
Depth to water	2 ft.; Depth of well 2 ft.; Perforation Interval	ft.; Casing:	6 PVC
Sampling Location	iems Ranch Well #6	· 0 0 2/1	imes W/1 Baila
	1 1 1	2	mes W/1 Baila
	ight hydrourlyon shear,		
1 certify that tr	re collector): Hard Met		
	panies Septum Vials, Glass Jugs, and/or	hod of Shipment to th	le Lab: John
	reserved as follows:		
☐ NP:	No Preservation; Sample stored at room temperature.		1
P-Ice	Sample stored in an ice bath (Not Frozen).		
P-Na S O	Sample Preserved with Sodium Thiosulfate to remove chlo	rine residual.	
CHAIN OF CU	STODY		
I certify that the	nis sample was transferred from	to	
at (location)	on		and that
the statements i	n this block are correct. Evidentiary Seals: Not Sealed	Seals Intact: Yes	No 🔲
Signatures			
	10/6./0/		
For OCD L	Ise: Date Owner Notified)	or(Letter)	Initials\/

### THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s)	checked below:							
PURGEABLE SCREENS  [ (753) Aliphatic Purgeables (1-3 Carbons)  [ (754) Aromatic & Halogenated Purgeables  [ (765) Mass Spectrometer Purgeables  [ (766) Trihalomethanes  Other Specific Compounds or Classes	EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons  (760) Organochlorine Pesticides  (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 Hydrocarbon  (762) SDWA Pesticides & Herbicides	01106						
ANALYTICA	L RESULTS							
COMPOUND(S) DETECTED CONC. [PPB]	COMPOUND(S) DETECTED	CONC.						
halogenated purgeables ND								
the land of the								
aromalic fourgeoffes UD								
• DETECTION LIMIT • * / Op/2	+ DETECTION LIMIT +							
ABBREVIATIONS USED:		(						
N D = NONE DETECTED AT OR ABOVE THE STATES  T B = DETECTED AT A SEVEL BELOW THE STATES								
T R $\Rightarrow$ DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED) [ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION								
LABORATORY REMARKS Two other earnbore	ms were detected by The	10						
arountie screen that were no	identified however	<i>P</i>						
it is an ille that this	a la la romationation							
The state of the s	a significant survey of the second	<del>\ ('</del>						
*								
CERTIFICATE OF ANALY	YTICAL PERSONNEL							
Seal(s) Intact: Yes No . Seal(s) broken by:  I certify that I followed standard laboratory procedures on handlin	g and analysis of this sample unless otherwise no	ed and						
that the statements on this page accurately reflect the analytical r		cu anu _						
Date(s) of analysis: 10-16-86 . Analyst's signature:								
I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.								
Reviewers signature:								