# 1R - 184

# REPORTS

# DATE: 5/24/1988

### IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEW MEXICO

JOE R. WILLIAMS,	}			
Plaintiff,	}			
	}			
VS.	}	No.	87-1011-M	Civil
	}			
TEXAS-NEW MEXICO PIPELINE	}			
COMPANY,	}			
Defendant	}			

### NOTICE OF DEPOSITION

TO: JOE R. WILLIAMS c/o DAVID GREENHAW, ESQ. 520 SOUTH FOURTH STREET LAS VEGAS, NEVADA 89101

PLEASE TAKE NOTICE that the Defendant will take the following deposition at the indicated time and place before Mr. Randy S. LaMar, Santa Fe Transcription Services, or some other certified court reporter:

DAVID BOYER

DATE: June	21,	1988
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- TIME: 9:00 A.M.
- PLACE: Oil Conservation Division Office of Dave Boyer State Land Office Building Santa Fe, New Mexico 87504 (505) 827-5800

PLEASE TAKE FURTHER NOTICE that subpoena duces tecum is hereby issued and the deponent shall produce at the time of deposition, at the above described location, for copying and inspection, the documents and material designated in Exhibit "A". Notice of Deposition Page -2-

### RESPECTFULLY SUBMITTED,

PAUL M. BOHANNON

This will certify that the undersigned deposited on this date a true and correct copy of the foregoing pleading in the United States mail, first class, postage prepaid, certified mail, return receipt requested No. \_\_\_\_\_\_ to all counsel of record.

Date:\_\_\_\_ Signed:. 4000 N. Big Spring, #211 Midland, Texas 79705 (915) 685-1801

### EXHIBIT "A"

### DEFINITIONS

1. "You" and "Your" refer to DAVID BOYER AND THE OCD, its agents, officers, employees, contractors, subcontractors, representatives, parent or subsidiaries (if a corporation), affiliates, and any other person or entity acting for or in its behalf, their agents, employees, officers, contractors, subcontractors, representatives, parent or subsidiaries (if a corporation), and affiliates.

 "Defendant" means TEXAS-NEW MEXICO PIPELINE
 CO., its agents, employees, representatives;, officers, and subcontractors.

3. "Identify" when referring:

(A) To a person, means to state his or her full

Notice of Deposition Page -3-

> name and present or last known telephone number, business and residential address;

> (B) To a public or private corporation, partnership, or other organization or entity, or to a governmental agency means to state its full name and present or last known pertinent business address;

> (C) To a statement, means to identify who made, who took or recorded it, and all persons, if any, present during the taking of the statement; to state when, where, and how it was taken or recorded, and to identify who has present or last known possession, custody, or control thereof;

> (D) To a document, means to give a reasonably detailed description thereof, including, if applicable, when, where, and how it was made; to identify who made it; and to identify who has present or last known possession, custody, or control thereof;

> (D) "Person" shall mean any individual, partnership, association, corporation, joint venture, firm, proprietorship, agency, board, authority, commission, or any other legal or business entity.
> (E) As used herein, the words "and" and "or" shall be construed either conjunctively or disjunctively as required by the context to bring

Notice of Deposition Page -4-

> within the scope of these interrogatories and request for production any information that might be deemed outside the scope by another constructions.

> (F) "Document" means, without limitation, the following items, whether printed or recorded or reproduced by any other mechanical process, or written or produced by hand, BE IT DRAFT OR FINAL DOCUMENT: agreements; communications; state and federal government hearings, filings; reports; correspondence; telegrams; memorandums; telexes; telecopies and faxes; electronic mail transfers; summaries of records of any other documents or of telephone conversations; summaries or records of personal conversations or interviews; diaries; graphs; reports; notebooks; note charts; plans; drawing; sketches; maps; summaries or records of meetings or conferences; summaries or reports out of investigations or negotiations; invoices (payables or receivables); opinions or reports of consultants; photographs; motion picture or video films; brochures; pamphlets; advertisements; circulars; press releases; drafts; letters; ANY MARGINAL COMMENTS APPEARING ON ANY DOCUMENTS; scientific studies including but limited to samples, measurements, computer modeling; and all

Notice of Deposition Page -5-

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other writings.

(G) "Describe in detail" means to give a complete and full description concerning the matter about which inquiry is made, including the full name, address, and telephone number of persons involved, if appropriate, along with dates, times, places, amounts, and other particulars that make the answer to the interrogatories and/or request to produce fair and meaningful.

### REQUESTED DOCUMENTS

 All documents relating to the 1984 pipeline leak investigation of Texas-New Mexico Pipeline Company and the Monument Water Users' Association.

2. All documents relating to investigation of contamination on or near the property of Joe R. Williams in the vicinity of Monument, New Mexico.

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ENERGY AND MINERALS DEPARTMENT



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 Thanksgiving. 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

began oil recovery operations that recovered much of their oil. The bad news is that their investigation showed an immense area of contamination beyond that that could have possibly been caused by their break. This 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.q., 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,

Amin J. Ever G. Bale DAVID G. BOYER Hydrogeologist/Environmental Bureau Chief

DGB:dp

Enc.

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

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REPORT TO:	David Boyer	S.L.D. NO. OR- 86-1163 A-B
	N.M. Oil Conservation Division	
	P. 0. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	827-5812	USER CODE: $\begin{vmatrix} 8 & 2 & 3 & 5 \end{vmatrix}$
SUBMITTER:	David Boyer	CODE: 12   6   0
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(766) Trihalo	_	(758) Herbicides, Chlorophenoxy acid
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		(760) Organochlorine Pesticides
□		(761) Organophosphate Pesticides
□	·····	(767) Polychlorinated Biphenyls (PCB's)
		(764) Polynuclear Aromatic Hydrocarbons
II		[] (762) SDWA Pesticides & Herbicides
Remarks:		
FIELD DATA:		
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	Pump in well Sar	- Williams Well 41 mple Sorom pump put fot into Tank results of my field analyses, observations and
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	No Preservation; Sample stored at room tem Sample stored in an ice bath (Not Frozen).	perature.
·	Sample Preserved with Sodium Thiosulfate to	o remove chlorine residual.
CHAIN OF CUS	STOD Y	
I certify that th	is sample was transferred from	to
at (location)		on// and that
the statements in	n this block are correct. Evidentiary Seals: No	t Sealed Seals Intact: Yes No No

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LAB. No.: OR- 163

THIS PAGE FOR LABORATORY RESULTS ONLY	
This sample was tested using the analytical screening method(s) checked below:	
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LABORATORY REMARKS:	
CERTIFICATE OF ANALYTICAL PERSONNEL	
Seal(s) Intact: Yes $\square$ No $\square$ . Seal(s) broken by: date: I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted an that the statements on this page accurately reflect the analytical results for this sample. Date(s) of analysis: $\square - \square $	

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Collection TIME 5		ATION	Collection site description	n 1			<u> </u>
Collected by Person/	Agency	/OCD					and the property
SEND FINAL REPORT TO Attn:	State Land Santa Fe, i <u>David Bo</u>	SERVATION DIV Office Bldg, NM 87504-208 Ver	, PO Box 208		OIL CO	NOV 2 4 19 NOV 2 4 19 NOCENATION SANTA F	
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ANALYTICAL				J			
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C Other:			- <u></u>	(dissolved) (70300)		- <u>2-</u> mg/l	
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EPORT TO:       David Boyer       OCT 3 0 1986L D       N. or. 36 - 1164 A-B         N.M. 011 Conservation Division       Division       Division       Division         P. 0. Box 2088       OIL CONSERVATION DIVISION       Division         Santa Fe, N.M. 87504-2088       PRIORITY         HONE(S):       827-5812       USER CODE:       8 2 - 1 - 3 - 5         UBMITTER:       David Boyer       CODE:       2 - 6 - 0         AMPLE COLLECTION CODE:       (YYMMDDHHMMIII)       9 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	~ . /	700 Albuquer	Camino de 19 que, NM	
P. 0. Box 2088       OIL CONSERVATION BUSIEN         Santa Fe, N.M. 87504-2088       PRIORITY         Santa Fe, N.M. 87504-2088       PRIORITY         HONE(S):       827-5812       user code:       8 [242] 3 5 ]         MARLE COLLECTION CODE:       (YMMDDHHIMMII)       Q[4] [2 [2 ] [2 ] [2 ] [2 ]       [3 ] [3 ]         AMPLE COLLECTION CODE:       (YVMDDHHIMMIII)       Q[4] [2 ] [2 ] [2 ] [1 ] [2 ]       [4 ] [2 ] [2 ] [2 ]         OUNTY:       LAM       ; OUTY:       Manual College       Code:       [1 ] [1 ] [2 ] [2 ] [2 ]         OCATION CODE:       (Twinship-Range-Section-Tracts)       [1 ] [2 ] [2 ] [2 ] [2 ] [2 ] [2 ] [2 ]	EPORT TO:	David Boyer		OCT 3 0 1986LD NO. OR- 86-1164 A-B
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Other Specific Compounds or Classes       (759) Herbicides, Triasines         (760) Organophorphate Pesticides       (761) Organophorphate Pesticides         (761) Polychornated Biphenyls (PCB's)       (761) Polychornated Biphenyls (PCB's)         (761) Criganophorphate Pesticides       (762) SDWA Pesticides         emarks:       (762) SDWA Pesticides         HELD DATA:       (762) SDWA Pesticides & Herbicides         HE: Conductivity=       55Qumho/cm at _/7 °C; Chlorine Residual=mg/l         issolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate      mg/l;         epth to water 34 ft.; Depth of well 40 ft.; Perforation Intervalft.; Casing:       8' Steel         Image: Interval in this block accurately reflect the results of my field analyses, observations and this form accompanies       Steel         its form accompanies       Steel       Method of Shipment to the Lab: _//2 used         NP:       No Preservation; Sample stored at room temperature.       Method of Shipment to the Lab: _//2 used         NP:       No Preservation; Sample stored at no ice bath (Not Frozen).       P-Na \$0, Sample Preserved with Sodium Thiosulfate to remove chlorine residual.         HAIN OF CUSTODY       certify that this sample was transferred from				
[761] Organophosphate Pesticides         [761] Organophosphate Pesticides         [761] Organophosphate Biphenyls (PCB's)         [762] Polychorinated Biphenyls (PCB's)         [764] Polynuclear Aromatic Hydrocarbons         [762] SDWA Pesticides & Herbicides         emarks:         [762] SDWA Pesticides & Herbicides         emarks:         [762] SDWA Pesticides & Herbicides         IELD DATA:         H= Conductivity=         [761] Alkalinity=mg/l; Flow Rate         [762] SDWA Pesticides & Herbicides         emarks:				
[767] Polychlorinated Biphenyls (PCB's)          [767] Polychlorinated Biphenyls (PCB's)         [764] Polynuclear Aromatic Hydrocarbons         [762] SDWA Pesticides & Herbicides         emarks:         IELD DATA:         H=; Conductivity= 550 umho/cm at _/9 °C; Chlorine Residual=mg/l         issolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate         epth to water 34 ft.; Depth of well 40 ft.; Perforation Intervalft.; Casing: 8' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5'				(760) Organochlorine Pesticides
IELD DATA:         H=				
Image: marks:       [] (762) SDWA Pesticides & Herbicides         emarks:       [] (762) SDWA Pesticides & Herbicides         emarks:       [] (762) SDWA Pesticides & Herbicides         emarks:       [] (762) SDWA Pesticides & Herbicides         IELD DATA:       [] (762) SDWA Pesticides & Herbicides         H=; Conductivity=       [] (762) SDWA Pesticides & Herbicides         IELD DATA:       [] (762) SDWA Pesticides & Herbicides         H=; Conductivity=       [] (762) SDWA Pesticides         issolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate/	_			
emarks:				
IELD DATA:         H=; Conductivity= 550 umho/cm at _/∑ °C; Chlorine Residual=mg/l         issolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate/         epth to water 34ft.; Depth of well 40_ft.; Perforation Intervalft.; Casing: 3' Steel         ampling Location, Methods and Remarks (i.e. odors, etc.)         Image: Conductivity= 500 umho/cm at 0.000 ft.; Perforation Intervalft.; Casing: 3' Steel         ampling Location, Methods and Remarks (i.e. odors, etc.)         Image: Conductivity for the form of the location of the lo	emarks:			
H=; Conductivity= <u>55Q</u> umho/cm at <u></u> °C; Chlorine Residual=mg/l issolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate epth to water <u>34</u> ft.; Depth of well <u>40</u> ft.; Perforation Interval ft.; Casing: <u>5'</u> <u>5'</u> <u>6</u>				
issolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate	IELD DATA:		· · · · · · · · · · · · · · · · · · ·	
issolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate	H= ; Co	onductivity= 55Oumho/cm at	/9 °c; chi	orine Residual= mg/l
epth to water 34_ft.; Depth of well 40_ft.; Perforation Intervalft.; Casing: 8 Steel				
Bailed approximately fime by Small bailes         Williamy Well#2         certify that the results in this block accurately reflect the results of my field analyses, observations and trivities.(signature collector):         Septem Vials,	epth to water	34 ft.; Depth of well $40$	ft.; Perforation	Intervalft.; Casing: 84 Steel
(M)i /l) & M. Well 2         certify that the results in this block accurately reflect the results of my field analyses, observations and trivities.(signature collector):         (M) M.	<b>A</b>	n, Methods and Remarks (i.e. or	iors, etc.)	it when the
ctivities.(signature collector):			maley	6 limes lifsmall bailes
amples were preserved as follows: NP: 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. THAIN OF CUSTODY certify that this sample was transferred from to to and that	ctivities.(signatu	e collector):	Hout	Method of Shipment to the Lab:
P-Ice Sample stored in an ice bath (Not Frozen). P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorine residual. HAIN OF CUSTODY certify that this sample was transferred from to t (location) on on and that				
P-Na S O Sample Preserved with Sodium Thiosulfate to remove chlorine residual.			-	rature.
certify that this sample was transferred from to         t (location) on       and that		•	. ,	remove chlorine residual.
t (location) on/: and that				
ne statements in this block are correct. Evidentiary Seals: Not Sealed 🦳 Seals Intact: Yes 🦳 No 🥅	t (location)			on/: and that
	ne statements i	n this block are correct. Evident	iary Seals: Not	Sealed Seals Intact: Yes No

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LAB. No.: OR- 1164

THIS PAGE FOR	R LABORATORY RESULTS ONLY
This sample was tested using the analytical screening n	nethod(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     ANIAL V	EXTRACTABLE SCREENS         (751) Aliphatic Hydrocarbons         (760) Organochlorine Pesticides         (755) Base/Neutral Extractables         (758) Herbicides, Chlorophenoxy acid         (759) Herbicides, Triazines         (760) Organochlorine Pesticides         (760) Organochlorine Pesticides         (760) Organochlorine Pesticides         (761) Organophosphate Pesticides         (767) Polychlorinated Biphenyls (PCB's)         (764) Polynuclear Aromatic Hydrocarbons         (762) SDWA Pesticides & Herbicides
COMPOUND(S) DETECTED CO	NC. COMPOUND(S) DETECTED CONC.
$\frac{halogenated purgeables}{aromatic purgeables} N$ $\frac{halogenated purgeables}{aromatic purgeables} N$ $\frac{halogenated}{aromatic purgeables} N$ $\frac{halogenated}{aromati$	1
LABORATORY REMARKS:	
CERTIFICATE OF	F ANALYTICAL PERSONNEL
that the statements on this page accurately reflect the and Date(s) of analysis: $\frac{10-10-66}{66}$ . Analyst's signature	handling and analysis of this sample unless otherwise noted and alytical results for this sample.
Reviewers signature: K Meyerhel	

25 °C (00095)      µmho       D' Magnesium (00925)         □ Total non-filterable residue (suspended) (00530)       mg/l       D' Magnesium (00930)         □ Other:	82235 $I_{Lec}(I \neq 2 Menumon)$ $I_{Lec}(I \neq 2 Menumon)$ $I_{Lec}(I \neq 2 Menumon)$ $NOV = 4 1986$ $I_{Lec}(I \neq 2 Menumon)$ $OIL CONSERVATION DIVISIO SANTA FE I \neq 5 - 37 \neq -33.4 Sample type Geology Conductivity at 25°C (00094) \mumho E = (40^{\circ} Menumon)$
Splittering DATE       STE         Collector TME       INFORM         Collector TME       INFORM         Collector TME       INFORM         Collector TME       INFORM         Collector TME       Collector TME         SEND       NM 01L CONSTRUCTIONS         Collector The Totor Totors       State Earl Of The Totor Totors         Collector Tage       Discharge         Dipped       Tage         Dipped       Tage         Dipped       Tage         Dipped       Tage         SAMPLE FIELD TREATMENT — Check propper boxes         No. of	$\frac{1015}{N0V 241986}$ $\frac{1015}{N0V 241986}$ $\frac{101}{N0V 241986}$ $\frac{101}{SANTA FE}$ $\frac{1}{5}$
Collected Preserview (ACC) (ACC) ENVIRONMENTAL BUREAU ENVIRONMENTAL BUREAU ENVIRONMENTAL BUREAU SEND NM 01L CONSERVATION 0IVISION FINAL State Land Office Bidg, P0 Box 2088 REPORT State Land Office Bidg, P0 Box 2088 Attn:David .Boyer Phone: 827-5312 SAMPLING CONDITIONS Conductivity (Uncorrected) PH (00400) Conductivity (Uncorrected) PH (00400) SAMPLE FIELD TREATMENT - Check proper boxes No. of samples / PH (Whole sample No. of samples / Phonesample No. of samples / Phonesample / Phonesample No. of samples / Phonesample / Phonesample No. of samples / Phonesample /	NOV 2 4 1986 OIL CONSERVATION DIVISION SANTA FE $\sqrt{55-37E-33.4}$ Sample type Conductivity at 25°C (00094) $\mu$ mho
ENVIROMENTAL BUREAU         SEND       NM 0IL CONSERVATION DIVISION         FINAL       State Land Office Bldg, P0 Box 2088         REPORT       Santa Fe, NM 87504-2088         Attn:       David. Boyer         Phone:       827-5312         SAMPLING CONDITIONS       State of the second of the	NOV 2 4 1986 OIL CONSERVATION DIVISION SANTA FE $\sqrt{55-37E-33.4}$ Sample type Conductivity at 25°C (00094) $\mu$ mho
Phone: 827-5312 SAMPLING CONDITIONS C  C  C  C  C  C  C  C  C  C  C  C  C	Sample type
CK Bailed       Pump       Water level       34 €7       Discharge         Dipped       Tap       Conductivity (Uncorrected)       Water Temp. (00010)         Field comments       Conductivity (Uncorrected)       Water Temp. (00010)         SAMPLE FIELD TREATMENT — Check proper boxes         No. of samples       CNF:       Whole sample       F. Filtered in field with         submitted       CNF:       Whole sample       F. Filtered in field with       A: 2 ml H₂2         XNA: No acid added       Other-specify:       A: 5 ml conc. HNO3 added         ANALYTICAL RESULTS from SAMPLES       Magnesium (00915)       Z         NF. NA       Units Date analyzed       F. NA         Conductivity (Corrected)       µmho       Z Sodium (00935)       Z         25°C (00095)       µmho       Choirde (0040)       Z         Conductivity (Corrected)       µmho       K Calcium (00935)       Z         Other:	Conductivity at 25°C (00094) μmho
pH (00400)       Conductivity (Uncorrected)	PC μmho
Field comments	PC μmho
Life DI. Hyper H. + Yr + Hitrate-N         B. diametti CAYing         SAMPLE FIELD TREATMENT — Check proper boxes         No. of samples submitted       B. NF: Whole sample (Non-filtered)       F: Filtered in field with 0.45 µmembrane filter       A: 2 ml H <sub>2</sub> S         XNA: No acid added       Other-specify:       A: 5 ml conc. HNO <sub>3</sub> added         ANALYTICAL RESULTS from SAMPLES       Magnesium (00915)       1////2 Magnesium (00925)         NF, NA       Units Date analyzed       F. NA         Conductivity (Corrected) 25°C (00095)       µmho       Bicarbonate (00440)         Sodium (00930)       Z       Sodium (00935)       Z         Notationon-filterable residue (suspended) (00530)       mg/l       Sulfate (00945)       Z         Other:       Sulfate (00945)       Sulfate (00940)       Z       Sulfate (00940)         Other:       mg/l       Total filterable residue (dissolved) (70300)       Total filterable residue (dissolved) (70300)       Total Sulfate (00945)         Nitrate-N + , Nitrate-N total (00630)       mg/l       Nitrate-N + , Nitrate-N dissolved (00631)       Nitrate-N + , Nitrate-N dissolved (00631)       Namonia-N dissolved (00660)	20 (40' Measured)
No. of samples submitted       /       //	
No. of samples submitted	
25 °C (00095)      µmho       D' Magnesium (00925)          □ Total non-filterable residue (suspended) (00530)      mg/l	O₄/Ladded □A: 4ml fuming HNO <sub>3</sub> added Units Date analyzed
□ Total non-filterable residue (suspended) (00530)	7 mg/1 10-21
Image: Nitrate-N + Nitrate-N total (00630)       mg/l       F, A-H2 SO4         Image: Ammonia-N total (00610)       mg/l       Image: Nitrate-N + Nitrate-N dissolved (00631)         Image: Total Kjeldahl-N ()       mg/l       Image: Ammonia-N dissolved (00631)         Image: Note of the second secon	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Image: Normale Normale Normalized Contracted C	
Chemical oxygen demand (00340) Group mg/l G	mg/i
Total organic carbon	mg/l
( ) mg/l	mg/l mg/l
	mg/l
Laboratory remarks SLD 726 (12/84) FOR OCD USE Date Owner Notified DATAS Phone or Letter?	te Reported Reviewed by

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N.M. 011 Conservation Division       DATE REC.       10 - S - S 6         P. O. Box 2088       PRIORITY         Santa Fe, N.M. 87504-2088       PRIORITY         HONE(S):       227-5812       USER CODE: [B   2   2   3   5]         UBMITTER:       David Boyer       CODE: [J   5   0]         AMPLE COLLECTION CODE:       (YMMDDHHMMIII)       B   6   1   0   0   1   1   3   6   1   0   1   1   3   6   1   6   1   1   1   3   6   1   6   1   6   1   1   1   3   6   1   6   1   6   1   1   1   1   1	1162 <sup>-C</sup>	SCIENTIFIC LABOR 700 Camino da Albuquerque, NM 8	e Salud NE
Deprove [8]:       827-5812       USER CODE:       [8]:       [2]:       [3]:       [5]:         BUBMITTER:       David Boyer       CODE:       [2]:       [6]:       [0]:         SAMPLE COLLECTION CODE:       (YYMMDDHHMMIII)       [8]:       [2]:       [2]:       [3]:       [3]:       [3]:       [4]:       [6]:       [6]:       [6]:       [6]:       [6]:       [6]:       [6]:       [6]:       [6]:       [6]:       [6]:       [6]:       [6]:       [6]:	EPORT TO:	N.M. Oil Conservation Division P. O. Box 2088	S.L.D. No. OR- <u>86-1162 A-B</u> DATE REC. <u>10-8-86</u>
David Boyer       OSDE       0216 ODDE       1         UBMITTER:       David Boyer       CODE:       1 <t< td=""><td></td><td></td><td></td></t<>			
ODMATING       ODMATING       ODMATING       ODMATING       ODMATING         AMPLE COLLECTION CODE:       (YYMMDDHHMMIII)       ODMATING       ODDE:       ODMATING       ODDE:       ODDE:       ODMATING       ODDE:	-		
OUNTY:	AMPLE COLLEC	TION CODE: (YYMMDDHHMMIII) $ \mathcal{B} $	21/10/01/11/30ARB
OCATION CODE: (Township-Range-Section-Tracts) // 9 /5 + 3 /2 /2 + 3 /3 + 4 /1 /1 (10N06224342)         NALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens equired. Whenever possible list specific compounds suspected or required.         (753) Aliphatic Purgeables (1-3 Carbons)       [751) Aliphatic Hydrocarbons         (754) Aromatic & Halogenated Purgeables       [760] Organochlorine Pesticides         (764) Aromatic & Halogenated Purgeables       [765] Organochlorine Pesticides         (766) Trihalomethanes       [775] Herbicides, Triazines         [766] Organochlorine Pesticides       [767] Organochlorine Pesticides         [766] Trihalomethanes       [767] Organochlorine Pesticides         [766] Trihalomethanes       [767] Polychlorinated Biphenyls (PCB's)         [767] Polychlorinated Biphenyls (PCB's)       [767] Polychlorinated Biphenyls (PCB's)         [768] Magenated oxygen=       [mg/l; Alkalinity=       [mg/l; Flow Rate		v =	
NALVSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens equired.         DURGEABLE SCREENS         (753) Aliphatic Purgeables (1-3 Carbons)       [751] Aliphatic Purgeables (1-3 Carbons)       [765] (760) Organochlorine Pesticides         [765] Mass Spectrometer Purgeables       [765] (760) Organochlorine Pesticides       [765] Herbicides, Chicophenoxy acid         [766] Trihalomethanes       [765] Herbicides, Chicophenoxy acid       [767] Polychlorinated Biphenyla (PCB's)         [760] Organochlorine Pesticides       [767] Polychlorinated Biphenyla (PCB's)       [761] Organophorphate Pesticides         [766] Trihalomethanes       [767] Polychlorinated Biphenyla (PCB's)       [761] Organophorphate Pesticides         [761] Trihalomethanes       [762] SDWA Pesticides & Herbicides       [762] SDWA Pesticides & Herbicides         [762] SDWA Pesticides       [762] SDWA Pesticides & Herbicides       [762] SDWA Pesticides & Herbicides         [762] Tribalomethanes       [762] SDWA Pesticides & Herbicides       [762] SDWA Pesticides & Herbicides         [764] Polychlorinated Biphenyla (PCB's)       [764] Polychlorinated Biphenyla (PCB's)       [762] SDWA Pesticides & Herbicides         [764] Souders/Marked       [765] SDWA Pesticides & Herbicides       [762] SDWA Pesticides & Herbicides         [765] Souther Marked       [762] SDWA Pesticides & Herbicides       [762] SDWA Pesticides & Merked	OUNTY: 10	<u>се;</u> сіту: <u>М</u> ЭЛ	CODE:
equired. Whenever possible list specific compounds suspected or required.          DTROGABLE SCREENS         (753) Aliphatic Purgeables (1-3 Carbons)         (754) Aromatic & Halogenated Purgeables       (750) Organochlorine Pesticides         (765) Mass Spectrometer Purgeables       (750) Top (Neutral Extractables         (766) Thialomethanes       (751) Aliphatic Purgeables         (766) Thialomethanes       (753) Herbicides, Chlorophenoxy acid         (760) Organochlorine Pesticides       (760) Organochlorine Pesticides         (760) Organochlorine Pesticides       (760) Organochlorine Pesticides         (761) Organochlorine Pesticides       (761) Organochlorine Pesticides         (762) Thialomethanes       (761) Organochlorine Pesticides         (762) Topyanochlorine Pesticides       (761) Organochlorine Pesticides         (761) Organochlorine Pesticides       (761) Organochlorine Pesticides         (762) SDWA Pesticides       (762) SDWA Pesticides         Hemarke:       (762) SDWA Pesticides & Herbicides         PHED DATA:       (762) SDWA Pesticides & Herbicides         MHE Conductivity= & Dumho/cm at [BS_0^c; Chlorine Residual=	OCATION CODE	: (Township-Range-Section-Tracts) $ / $	5+3 2+3 3+4  (10N06E24342)
(753) Aliphatic Purgeables (1-3 Carbons)       (751) Aliphatic Hydrocarbons         (754) Aromatic & Halogenated Purgeables       (760) Organochlorine Pesticides         (765) Mass Spectrometer Purgeables       (753) Herbicides, Chlorophenoxy acid         (765) Trihalomethanes       (759) Herbicides, Chlorophenoxy acid         (761) Organochlorine Pesticides       (761) Organochlorine Pesticides         (762) SDWA Pesticides & Herbicides       (762) SDWA Pesticides & Herbicides         temarks:	NALYSES REQU	<b>ESTED</b> : Please check the appropriate box(e	s) below to indicate the type of analytical screens
(753) Aliphatic Purgeables (1-3 Carbons)       (751) Aliphatic Hydrocarbons         (754) Aromatic & Halogenated Purgeables       (760) Organochlorine Pesticides         (765) Mass Spectrometer Purgeables       (753) Herbicides, Chlorophenoxy acid         (766) Trihalomethanes       (759) Herbicides, Chlorophenoxy acid         (767) Organochlorine Pesticides       (761) Organochlorine Pesticides         (761) Organochlorine Pesticides       (761) Organochlorine Pesticides         (761) Organochlorine Pesticides       (761) Organochlorine Pesticides         (761) Organochlorine Pesticides       (761) Organochlorine Pesticides         (762) SDWA Pesticides & Herbicides       (762) SDWA Pesticides & Herbicides         Hermitic B.S. Qumho/cm at        Soc C; Chlorine Residual=mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate      mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate      mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate      mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate	•		•
(754) Aromatic & Halogenated Purgeables          (754) Aromatic & Halogenated Purgeables       (760) Organochlorine Pesticides         (766) Trihalomethanes       (758) Herbicides, Chlorophenoxy acid         (766) Trihalomethanes       (759) Herbicides, Chlorophenoxy acid         (760) Organochlorine Pesticides       (760) Organochlorine Pesticides         (760) Organochlorine Pesticides       (760) Organochlorine Pesticides         (760) Organochlorine Pesticides       (760) Organochlorine Pesticides         (761) Organophosphate Pesticides       (761) Organophosphate Pesticides         (761) Organophosphate Pesticides       (761) Organophosphate Pesticides         (762) SDWA Pesticides & Herbicides       (762) SDWA Pesticides         temarke:       (762) SDWA Pesticides & Herbicides         temarke:       (762) SDWA Pesticides & Herbicides         temarke:       (763) SDWA Pesticides & Herbicides         temarke:       (761) Organophosphate Pesticides         temarke:       (762) SDWA Pesticides & Herbicides         temarke:       (761) Conductivity=       SD umho/cm at / /////////////////////////////////			
(766) Trihalomethanes       (758) Herbicides, Chlorophenoxy acid         Other Specific Compounds or Classes       (759) Herbicides, Chlorophenoxy acid         (759) Herbicides, Chlorophenoxy acid       (750) Organochlorine Pesticides         (761) Organochlorine Pesticides       (767) Polychlorinated Biphenyls (PCB's)         (761) Polychlorinated Biphenyls (PCB's)       (761) Polychlorinated Biphenyls (PCB's)         (762) SDWA Pesticides & Herbicides       (762) SDWA Pesticides & Herbicides         emarks:       (762) SDWA Pesticides & Herbicides         IELD DATA:       mg/l; Alkalinity=mg/l; Flow Rate	(754) Aromati	c & Halogenated Purgeables	
Other Specific Compounds or Classes       (759) Herbicides, Triazines         (760) Organochlorine Pesticides       (761) Organophosphate Pesticides         (761) Organophosphate Pesticides       (761) Organophosphate Pesticides         (761) Organophosphate Pesticides       (761) Organophosphate Pesticides         (762) SDWA Pesticides & Herbicides       (761) Organophosphate Pesticides         emarks:       (762) SDWA Pesticides & Herbicides         IELD DATA:       (762) SDWA Pesticides & Herbicides         H=; Conductivity=       SDumho/cm at / So °C; Chlorine Residual=mg/l         issolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate      mg/l         epth to water ^3 ft.; Depth of well 41 ft.; Perforation Intervalft.; Casing: 67 / 97 / 97 / 97 / 97 / 97 / 97 / 97 /		_	
Image: Solution of the second seco			
[761] Organophosphate Pesticides         [762] SDWA Pesticides & Herbicides         emarks:         [762] SDWA Pesticides & Herbicides         emarks:         [762] SDWA Pesticides & Herbicides         IELD DATA:         H=; Conductivity=         [762] SDWA Pesticides & Herbicides         emarks:	- Uther	Specific Compounds of Classes	
Image: Construction of the standard		р <sup>и н</sup> Цолоно	
Image: marke:       [] (762) SDWA Pesticides & Herbicides         IELD DATA:         H=: Conductivity= Doumho/cm at Do's °C; Chlorine Residual=mg/l         https://www.conductivity= Douthout the market of			
Itemarks:			
PIELD DATA: DH=; Conductivity= <u>BSD</u> umho/cm at <u>BSS</u> °C; Chlorine Residual=mg/1 Dissolved Oxygen=mg/1; Alkalinity=mg/1; Flow Rate/ Depth to water <u>BSD</u> ti; Depth of wéll <u>41</u> ft.; Perforation Intervalft.; Casing: <u>6"PVC</u> Depth to water <u>BSD</u> ti; Depth of wéll <u>41</u> ft.; Perforation Intervalft.; Casing: <u>6"PVC</u> Depth to water <u>BSD</u> ti; Depth of wéll <u>41</u> ft.; Perforation Intervalft.; Casing: <u>6"PVC</u> Depth to water <u>BSD</u> to perform the second se		······································	[] (762) SDWA Pesticides & Herbicides
DH=; Conductivity=	emarks:		
Sampling Location, Methods and Remarks (i.e. odors, etc.) Williams Ramm Well 3 - Pump in Well buillenused odon, Hydrochlemscheen en bailed sample certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): <u>Harsh Method</u> Method of Shipment to the Lab: <u>Hansh</u> 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-Na S O3 Sample Preserved with Sodium Thiosulfate to remove chlorine residual. CHAIN OF CUSTODY is certify that this sample was transferred from to	H=; Con issolved Oxygen=	mg/l; Alkalinity=mg/l; Flow	Rate/
ampling Location, Methods and Remarks (i.e. odors, etc.) Williams Rand Well 3 - Pump in Well buttenused odon, Hybrocarlematics of my field analyses, observations and certify that the results in this block accurately reflect the results of my field analyses, observations and ctivities.(signature collector): <u>Hand Hand</u> Method of Shipment to the Lab: <u>Hand</u> This form accompanies <u>Septum Vials</u> , <u>Glass Jugs</u> , and/or <u></u> imples were preserved as follows: NP: No Preservation; Sample stored at room temperature. P-Ice Sample stored in an ice bath (Not Frozen). P-Na SO Sample Preserved with Sodium Thiosulfate to remove chlorine residual. THAIN OF CUSTODY certify that this sample was transferred from <u></u> to <u></u>	epth to water	ft.; Depth of well 4/ ft.; Perforat	ion Intervalft.; Casing:PUC
certify that the results in this block accurately reflect the results of my field analyses, observations and incivities.(signature collector):       Herry Herry Herry Herry Method of Shipment to the Lab:         Chis 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-Na S O         Sample Preserved with Sodium Thiosulfate to remove chlorine residual.         CHAIN OF CUSTODY         certify that this sample was transferred from       to	ampling Location	Methods and Remarks (i.e. odors, etc.) M Rand Well + 3 - 1	ump in well but repused
Chis 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-Na S O       Sample Preserved with Sodium Thiosulfate to remove chlorine residual.         CHAIN OF       CUSTOD Y         certify that this sample was transferred from       to			
NP:       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       certify that this sample was transferred from	his form accomp	anies A Septum Vials, Glass Ju	results of my field analyses, observations and Method of Shipment to the Lab: <u>Hand</u> gs, and/or
certify that this sample was transferred from to	NP: P-Ice	No Preservation; Sample stored at room ter Sample stored in an ice bath (Not Frozen).	
certify that this sample was transferred from to			o remove chlorine residual.
			to
he statements in this block are correct. Evidentiary Seals: Not Sealed 📃 Seals Intact: Yes 🗌 No 🛄			
Signatures		Jordon Zuldennary Scalar IV	-;

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i.

LAB. No.: OR- 1/62

THIS PAGE FOR LABORA	TORY RESULTS ONLY
This sample was tested using the analytical screening $method(s)$ ch	necked below:
PURCEABLE SCREENS   (753) Aliphatic Purgeables (1-3 Carbons)  (754) Aromatic & Halogenated Purgeables (765) Mass Spectrometer Purgeables (766) Trihalomethanes Other Specific Compounds or Classes  Other Specific Compounds or Classes  ANALYTICAL	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 (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides EESILLTS
COMPOUND(S) DETECTED CONC.	COMPOUND(S) DETECTED CONC.
[PPB]	[PPB]
<u>Abbreviations Used:</u>	+ DETECTION LIMIT + +
N D = NONE DETECTED AT OR ABOVE THE STATED D T R = DETECTED AT A LEVEL BELOW THE STATED D [ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND/OR	DETECTION LIMIT (NOT CONFIRMED)
LABORATORY REMARKS:	
CERTIFICATE OF ANALYTI	ICAL PERSONNEL
Seal(s) Intact: Yes No Seal(s) broken by: I certify that I followed standard laboratory procedures on handling a that the statements on this page accurately reflect the analytical resul Date(s) of analysis: 10-10-56. Analyst's signature: I certify that I have reviewed and concur with the analytical results Reviewers signature: Meyerhen	and analysis of this sample unless otherwise noted and alts for this sample. For this sample and with the statements in this block.

	700 Camino de S	BORATORY DIVISIO		C		VATER CHE OGEN ANA	
		ABWC-484/		o □ 59600 XX	OTHER: 82	235	
	7	SITE	CODE 59300 Sample location	). Ili ame	Ronds	well +	### # R
		INFORM- ATION	Collection site description			-11/2/	
Collected by - Person//	Agency	·/OCD					
SEND FINAL REPORT TO Attn:	State Land Santa Fe, I <u>David Bo</u> g	TAL BUREAU SERVATION DI Office Bldg NM 87504-208 Yer	, PO Box 208	8		CHSERVATIO SERVATIO	N DIVISION E
Phoi SAMPLING CO	ne: 827-58	312			well code	S-37E	- 53,4
Bailed		Water level		Discharge		Sample type	1 17
Dipped	🗆 Тар	Open de estis de distance	32'			Constructivity of	200
pH (00400)	~.	Conductivity (Unco	μmho	Water Temp. (00010)	18-5 °C	Conductivity at	μmh
Field comments	R ppz	or Jul.	2 a d	171 57	derp	6"PU	C Copino
	odon.	Hydro	carlor	cheen			/
	TREATMEN	/ T — Check prope		/			
No. of samples		Whole sample	E. Filtered in		2 ml H₂SO₄/	L added	<u> </u>
submitted		(Non-filtered)	0.45 µme			. <u></u>	
L	id added 🛛 🔾		□ A:	5ml conc. HNO <sub>3</sub> a		A: 4ml fun	ning HNO <sub>3</sub> adde
ANALYTICAL F	RESULTS from	SAMPLES	Units Date analyze	d F. NA		Uni	ts Date analyzed
Conductivity (	Corrected)			A Calcium (00915)		mg	
25°C (00095)			umho	– 🏽 🥙 Magnesium (0092	(5) <u>74,4</u> 161	mg mg	
Total non-filtera residue (suspe				Potassium (00935		mg	1/1 <u>**</u>
(00530)			mg/l	- R Bicarbonate (0044 Chloride (00940)	40) <u> </u>		1. 1.12
Cher:			~ <u></u>	- 😥 Sulfate (00945)			11- 1-
☐ Other:	<u></u>			<ul> <li>Total filterable resid</li> <li>(dissolved) (70300</li> </ul>		18mg	11/5
NF, A-H <sub>2</sub> SO <sub>4</sub>				Q Other: CO3			10/2.7
Nitrate-N+, N	itrate-N		<u></u>	F, A-H <sub>2</sub> SO <sub>4</sub>			
total (00630)			mg/l	- 🗆 Nitrate-N + , Nitrat	e-N		
<ul> <li>Ammonia-N to</li> <li>Total Kjeldahl-I</li> </ul>		<u> </u>	mg/l	<ul> <li>dissolved (00631)</li> <li>Ammonia-N disso</li> </ul>		mg	)/I
() Chemical oxyc			mg/l	- (00608)		mg	ı/۱
demand (0034	io)		mg/l	– Contract Total Kjeldahl-N		mg	1/1
Total organic c	arbon		mg/l	_ Other:			
C Other:			- <u></u>	Analyst	Date R	eported Re	viewed by
Other:			······	-			29
Laboratory remark	ks						
			······				
SLD 726 (12/84			.11			<u>.</u>	
FOR OCD US	SE Date	Owner Notif	ied )2/9/92	Phone or Lette	er. 2/1	5 Initia	ls

LD 726 (12/84)	
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102

SCIE 700 C	Mexico Health a NTIFIC LABOR amino de Saluc Juerque, NM 87	ATORY DIVISI				WATER CHEM	
DATE RECEIVED 1018	86 LAB	WC-484,		9300 🗌 59600	X OTHER: 82	235	
Collection DATE		SITE INFORM- ATION	Sample location /	villiams	Ranchul	ell#4 1	Monument
Collected by - Person/Agency	+	: (000	Collection site desci	ription			
- Boyes	bery	/0CD	L	·····		(-Baball	- <u>-</u> -
SEND NM C TINAL Stat REPORT Sant O Sant Attn:Da	RONMENTAL IL CONSEF e Land Of a Fe, NM wid Boyer 827-5812	VATION D fice Bld 87504-20	g, PO Box 2	088	Station/ well code	NUV 2 4 198 NUV 2 4 198 NSERVATION SANTA FE FS-37E-	DIVISION
SAMPLING CONDIT	IONS				Owner	, , , , , , , , , , , , , , , , , , , ,	
Bailed DP	· ·	ater level	1 ~ / /	Discharge		Sample type	° - C
	<u> </u>		12.5'			<u></u>	74 5
pH (00400)		onductivity (Un	sorrected) β_2_5 μml	Water Temp. (00010	"18-5℃	Conductivity at 25	μmho
Field comments	Bailer	$l \sim l$	stimes	W/1" boy	ler,	<b>.</b>	
			******************************		••••••••••••••••••••••••••••••••••••••		
SAMPLE FIELD TRI							
No. of samples		Whole sample (Non-filtered)	□ F: <sup>Filtere</sup>	d in field with 🛛 🗆 🖌	A: 2 ml H <sub>2</sub> SO <sub>4</sub>	/L added	
(XNA: No acid ad		(			added -	A: 4ml fumi:	ng HNO, added
				5ml conc. HNO	3 added		ing into 3 added
ANALYTICAL RESU	LTS from S	AMPLES	Units Date anal	WTOOL 5 NA		Units	Date analyzed
S Conductivity (Correc	ted)	943	, sli	Z Calcium (009		mg/i	10-21
25°C (00095)			_µmho	X Magnesium (0	20925) <u>パー・</u> 2010 人名	mg/l mg/l	
Total non-filterable residue (suspended)				Potassium (00	1935) <u>4.29</u>	<u>★</u> mg/l	4
(00530)			mg/l	Bicarbonate (		ingit.	10/30
Other:				Chloride (009	,	<u>54</u> mg/l	10/30
C Other:				Z Jourale (0034)	- /	O CL	
C Other:				(dissolved) (70	)300)	<u>780 mg/l</u>	
NF, A-H <sub>2</sub> SO <sub>4</sub>				Z Other:	?->	38.Z	10/27
				F, A-H <sub>2</sub> SO <sub>4</sub>	<u> </u>		
Nitrate-N +, Nitrate-I total (00630)	N		mg/l				
Ammonia-N total (00	610)		mg/l	Nitrate-N+, N			
Total Kjeldahl-N				dissolved (006		mg/l	
( )	- <u></u>		mg/l	(00608)	issolved	mg/l	
Chemical oxygen				🗆 Total Kjeldahl-	-N	····	
demand (00340)			mg/l	— ( <sup>·</sup> )		mg/l	
()	·		mg/l	Other:			
C Other:							
Other:	<u> </u>			Analyst	1 .		wed by
د Laboratory remarks	K PoTa	SSILITY	4.29	mg/l as	per T,S	$\frac{5}{4}$	12/9/86 XRoy
····					·····	X	
SLD 726 (12/84)						2	HR N
FOR OCD USE	- Date Ow	mer Noti	fied 179	Apphone or Le	tter?	Initials	SALLS 1

	Albuquerque, NM 87106         841-2570         Image: Comparison of the second s
PORT TO:	David Boyer S.L.D. No. OR- <u>86-1165 A-B</u>
	N.M. Oil Conservation Division DATE REC. 10-8-86
	P. 0. Box 2088
	Santa Fe, N.M. 87504-2088 PRIORITY
ONE(S):	827-5812 USER CODE: 8 2 3 5
BMITTER:	David Boyer CODE: 12 6 0
	CTION CODE: (YYMMDDHHMMIII) 18161101017112105124(161
MPLE TYPE:	WATER X SOIL , FOOD , OTHER: CODE:
	lea ; CITY: Monument CODE: []
CATION COL	E: (Township-Range-Section-Tracts) $  \underline{19} 5 + \underline{37} \overline{5} + \underline{37} \overline{5} + \underline{47} \overline{57} - \underline{57} \overline{57} $ (10N06E24342)
	UESTED: Please check the appropriate box(es) below to indicate the type of analytical screens
uured. Whenev	er possible list specific compounds suspected or required. PURGEABLE SCREENS EXTRACTABLE SCREENS
] (753) Alipha	tic Purgeables (1-3 Carbons) (751) Aliphatic Hydrocarbons
	tic & Halogenated Purgeables (760) Organochlorine Pesticides
(765) Mass   (766) Trihal	Spectrometer Purgeables (755) Base/Neutral Extractables
,	Specific Compounds or Classes (759) Herbicides, Triazines
]	(760) Organochlorine Pesticides
_  1	(761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's)
.' ]	(764) Polynuclear Aromatic Hydrocarbons
]	(762) SDWA Pesticides & Herbicides
marks:	
ELD DATA:	
I=; C	onductivity= $625$ umho/cm at $165$ °C; Chlorine Residual=mg/l
ssolved Oxyger	=mg/l; Alkalinity=mg/l; Flow Rate/
	1215 ft.; Depth of well 49 ft.; Perforation Intervalft.; Casing: 4"PVC
	n, Methods and Remarks (i.e. odors, etc.)
R	ailed approva 6 times W/ Small 1" bailes
	N'llians Well #4
certify that th	
tivities.(signatu	re collector): Have to Boy method of Shipment to the Lab: Hand
is form accom	apanies Septum Vials, Glass Jugs, and/or
	eserved as follows:
NP:	No Preservation; Sample stored at room temperature. Sample stored in an ice bath (Not Frozen).
🗙 P-Ice	Sample Preserved with Sodium Thiosulfate to remove chlorine residual.
	STOD Y
] P-Na <sub>2</sub> SO HAIN OF CU	
P-Na <sub>2</sub> SO HAIN OF CU	is sample was transferred from to
$\begin{bmatrix} P-Na & S & O \\ P-Na & P & C \\ \end{bmatrix}$	is sample was transferred from to to on: and that
$\begin{bmatrix} P-Na & SO \\ 2 & 2 \\ RAIN & OF & CU \\ certify that the (location) \\ \end{bmatrix}$	

LAB. No.: OR- 1/65

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

# ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgables	NP		
bennene	TR	······	
Noticene	ND		
p-xyline	ND	· · ·	
0-Xylene	ND		
*	21		
* detection limit * 米	12 ppb	+ DETECTION LIMIT +	
N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [ RESULTS IN BRACKETS ] ARE UNCONS	THE STATE		
LABORATORY REMARKS: <u>A continue</u> by the asometic screen	un of	a Hansian Distribution	detecta
with a maximum conte			Sout
for the major component	1		<u> </u>
CERTIFICA	TE OF ANAL	YTICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken b	y:	date:	
I certify that I followed standard laboratory procedu			d and
that the statements on this page accurately reflect	the analytical	results for this sample.	
Date(s) of analysis: $\frac{10-10-86}{10-86}$ . Analysi's si	gnature:	Finney	
I certify that I have reviewed and concur with the	analytical rest	ults for this sample and with the statements in this	block.
Reviewers signature: A Meyerheim	·		

166-C	Albuquerque, NM 8	87106 841-2570
PORT TO:	David Boyer	S.L.D. No. OR- <u>86-1166 A-B</u>
	N.M. Oil Conservation Divisior	
1	P. 0. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
	827-5812	USER CODE: $\begin{vmatrix} 8 & 2 & 3 & 5 \end{vmatrix}$
ONE(S):	David Boyer	
BMITTER:		
	ECTION CODE: (YYMMDDHHMMIII) $ \mathcal{B} _{\mathcal{A}}$	
	WATER K, SOIL , FOOD , OTHE	
UNTY:	Lea ; CITY: MO,	
CATION COL	DE: (Township-Range-Section-Tracts) $  \int   \frac{G}{2}  $	S+3 2 E+3 3+4 - - (10N06E24342)
		es) below to indicate the type of analytical screens
uired. Wheney	ver possible list specific compounds suspected <b>PURGEABLE SCREENS</b>	or required. EXTRACTABLE SCREENS
(753) Alipha	atic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons
	atic & Halogenated Purgeables	(760) Organochlorine Pesticides
	Spectrometer Purgeables	(755) Base/Neutral Extractables
(766) Trihal Other	omethanes r Specific Compounds or Classes	<ul> <li>(758) Herbicides, Chlorophenoxy acid</li> <li>(759) Herbicides, Triazines</li> </ul>
	Specific Compounds of Classes	(760) Organochlorine Pesticides
		(761) Organophosphate Pesticides
		(767) Polychlorinated Biphenyls (PCB's)
l		(764) Polynuclear Aromatic Hydrocarbons
I	<u></u>	🦳 (762) SDWA Pesticides & Herbicides
solved Oxyger pth to water mpling Location certify that th ivities.(signatu is form accom mples were pr ] NP:	on, Methods and Remarks (i.e. odors, etc.) <u>Villand</u> <u>Ranch</u> <u>Well</u> <sup>4</sup> <u>Barked</u> <u>approved</u> <u>Gtame</u> the results in this block accurately reflect the are collector): <u>Javon J. Rough</u> panies <u>Septum Vials</u> , <u>Glass Ju</u> reserved as follows: No Preservation; Sample stored at room ter	v Rate
] P-Ice ] P-Na <sub>s</sub> o <sub>s</sub>	Sample stored in an ice bath (Not Frozen) Sample Preserved with Sodium Thiosulfate	to remove chlorine residual.
LAIN OF CU	STOD Y	
certify that th	his sample was transferred from	to
(location)		on/: and that
e statements i	in this block are correct. Evidentiary Seals: N	lot Sealed Seals Intact: Yes No
natures		

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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									
ANALYTICAL RESULTS										
COMPOUND(S) DETECTED CONC. COMPOUND(S) DETECTED CONC.										
[PPB]										
halogenated purgeables ND										
aromatic Aurgeables ND										
* DETECTION LIMIT * * 2 port										
* DETECTION LIMIT * X 2 ppb	+ DETECTION LIMIT +									
ABBREVIATIONS USED:										
N D = NONE DETECTED AT OR ABOVE THE STATE	D DETECTION LIMIT									
T R = DETECTED AT A LEVEL BELOW THE STATES	D DETECTION LIMIT (NOT CONFIRMED)									
[ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND/	OR WITH APPROXIMATE QUANTITATION									
RILL	I I I I AND A A									
LABORATORY REMARKS: 6 ppb to hiene was samples, but that appears to be	Sprisent in one of the duplicate									
samples but that appears to be	Pal contamination									
sompers part and a presentation	lag cure with course of the									
· · · · · · · · · · · · · · · · · · ·										
CERTIFICATE OF ANAL	YTICAL PERSONNEL									
Seal(s) Intact: Yes 🔄 No 🛄. Seal(s) broken by:	date:									
I certify that I followed standard laboratory procedures on handlin										
that the statements on this page accurately reflect the analytical										
$(a \cap A)     _{U-B} =   _{U-B}     _{U-B}  $	1-7 -									
Date(s) of analysis:	Its for this sample and with the statements in this block.									
Reviewers signature: K. Merro, her										
U										

	SCIENTIFIC LA 700 Camino de S	alth and Environment BORATORY Salud NE M 87106 — (505) 841-2	N	GE		VATER CHEMI OGEN ANALY	
DATE RECEIVED 11	18 186	AB WC-4837		р 🗆 59600 🕅 🗡 от	HER: 82	235	
	7	SITE	Sample location	Villiamik	and	1 Lief 0#-5	Monument
		ATION	Collection site description	······································	1		
Collected byPerson/		er 10CD					
- Boy	T J Sa	7	L				-16-3
FINAL REPORT TO ► Attn	NM OIL CON State Land Santa Fe, <u>David Bo</u>	-	, PO Box 208		Station/ /C	NOV 2 4 198	
	ne: 827-58	812			well code / 7 Owner	5-31E-	33.4
SAMPLING CC					- h	Complexity	
C Bailed	🖾 Pump 🗆 Tap	Water level	ファ ′	Discharge		Sample type	ra 6
pH (00400)		Conductivity (Unco		Water Temp. (00010)	18 °C	Conductivity at 25	°C (00094)
Field comments	EH Du	<u> </u>	$25 \mu mho$				µmho
		Casim		l deptte v	+0*		······
		T - Check prope		6 - 1			
No. of samples submitted	/ ØN	F: Whole sample (Non-filtered)	E F: Filtered in 0.45 μme	mbrane filter	πl H₂SO₄/	L added	
ANA: No ac	cid added 🖂 (	Other-specify:	□A:	5ml conc. HNO3 add	led 🗖 A	A: 4ml fumin	g HNO <sub>3</sub> added
ANALYTICAL I	RESULTS from		Units Date analyze				
				d F, NA		Units	Date analyzed
Conductivity ( 25 °C (00095)			/mho	A: Calcium (00915)	<u></u>	mg/l _	Date analyzed
25 °C (00095)	· · · · ·		<i>u</i> mho	2: Calcium (00915) 2: Magnesium (00925) 3: Sodium (00930)		mg/l	1021 11 11
	rable		/mho	<ul> <li>A: Calcium (00915)</li> <li>Agnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> </ul>	<u> </u>	2 mg/l _ 2 mg/l _ mg/l _	1021 11 11 1
25 °C (00095) Total non-filter residue (suspe (00530)	rable		/mho	<ul> <li>A: Calcium (00915)</li> <li>Agnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> </ul>	<u> </u>	mg/l mg/l mg/l mg/l mg/l	1021 4 
25 °C (00095) □ Total non-filter residue (suspe (00530) □ Other:	rable			<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> </ul>	<u> </u>	mg/l mg/l mg/l mg/l mg/l mg/l	1021 11 11 1
25 °C (00095) □ Total non-filter residue (suspe (00530) □ Other: □ Other:	rable			<ul> <li>A: Calcium (00915)</li> <li>Agnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> </ul>	50. 92. 4 26 63 75	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	1021 11 11 10/27 10/30
25 °C (00095) □ Total non-filter residue (suspe (00530) □ Other:	rable			<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> </ul>	50. 92. 4 26 63 75 5	mg/l mg/l mg/l mg/l mg/l mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l	$   \begin{array}{c}     1021 \\     1'' \\     10/27 \\     10/30 \\     10/30 \\     10/30 \\     10/5   \end{array} $
25 °C (00095) □ Total non-filter residue (suspe (00530) □ Other: □ Other:	rable			Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	50. 92. 4 26 63 75	mg/l mg/l mg/l mg/l mg/l mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l	1021 11 11 10/27 10/30
25 °C (00095) □ Total non-filter residue (suspe (00530) □ Other: □ Other: □ Other: ■ NF, A-H <sub>2</sub> SO <sub>4</sub> □ Nitrate-N + , N	 ended) 		mg/l	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> </ul>	50. 92. 4 26 63 75 5	mg/l mg/l mg/l mg/l mg/l mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l	1021 11 12 10/27 10/30 10/30 10/30 11/5
25 °C (00095) □ Total non-filter residue (suspe (00530) □ Other: □ Other: □ Other: ■ Nitrate-N + , N total (00630)	rable ended)		mg/l	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:	<u>50</u> , 92, 4 20 4 20 4 20 5 5 5 5	mg/l mg/l mg/l mg/l mg/l mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l	$   \begin{array}{c}     1021 \\     1'' \\     10/27 \\     10/30 \\     10/30 \\     10/30 \\     10/5   \end{array} $
25 °C (00095) □ Total non-filter residue (susper (00530) □ Other: □ Other: □ Other: ■ Nitrate-N +, N total (00630) □ Ammonia-N to	rable ended)  litrate-N 		mg/l	A:       Calcium (00915)         Magnesium (00925)       Sodium (00930)         Potassium (00935)       Bicarbonate (00440)         Bicarbonate (00940)       Chloride (00940)         Chloride (00945)       Total filterable residue (dissolved) (70300)         Other:       Suffate (00945)         F, A-H2 SO4       Nitrate-N + . Nitrate-N dissolved (00631)	50. 92. 4 22. 4 23. 75 5 5	mg/l mg/l mg/l mg/l mg/l mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l <u>a</u> mg/l	$   \begin{array}{c}     1021 \\     1'' \\     10/27 \\     10/30 \\     10/30 \\     10/30 \\     10/5   \end{array} $
25 °C (00095) □ Total non-filter residue (suspe (00530) □ Other: □ Other: □ Other: ■ Nitrate-N + , N total (00630)	rable ended)  litrate-N 		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)     Ammonia-N dissolved	50. 92. 4 22. 4 23. 75 5 5	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	$   \begin{array}{c}     1021 \\     1'' \\     10/27 \\     10/30 \\     10/30 \\     10/30 \\     10/5   \end{array} $
25 °C (00095) □ Total non-filter residue (susper (00530) □ Other: □ Other: □ Other: ■ Nitrate-N +, N total (00630) □ Ammonia-N total □ Total Kjeldahl- () ) □ Chemical oxyg	rable ended)  litrate-N  Dtal (00610)  N 		mg/I	A:       Calcium (00915)         Magnesium (00925)       Sodium (00930)         Potassium (00935)       Bicarbonate (00440)         Bicarbonate (00940)       Chloride (00940)         Chloride (00945)       Total filterable residue (dissolved) (70300)         Other:       Suffate (00945)         F, A-H2 SO4       Nitrate-N + . Nitrate-N dissolved (00631)	50. 92. 4 22. 4 23. 75 5 5	mg/l mg/l mg/l mg/l mg/l mg/l 2 mg/l 2 2 mg/l 3 2 mg/l mg/l	$   \begin{array}{c}     1021 \\     1'' \\     10/27 \\     10/30 \\     10/30 \\     10/30 \\     10/5   \end{array} $
25 °C (00095) □ Total non-filter residue (susper (00530) □ Other: □ Other: □ Other: ■ Nitrate-N +, N total (00630) □ Ammonia-N total □ Total Kjeldahl- ( )	rable ended)  litrate-N  tal (00610)  N  gen 40)		mg/I	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> <li>Other:</li> <li>F, A-H<sub>2</sub> SO<sub>4</sub></li> <li>Nitrate-N + . Nitrate-N dissolved (00631)</li> <li>Ammonia-N dissolved (00608)</li> </ul>	50. 92. 4 22. 4 23. 75 5 5	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	1021 11 12 10/27 10/30 10/30 10/30 11/5
25 °C (00095)	rable ended)  litrate-N  tal (00610)  N  gen 40)		mg/I	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> <li>Other:</li> <li>Nitrate-N + . Nitrate-N dissolved (00631)</li> <li>Ammonia-N dissolved (00608)</li> <li>Total Kjeldahl-N ( )</li> <li>Other:</li> </ul>	50. 92. 41 	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	1021 1 10/27 10/30 10/30 10/30 11/5 10/27
25 °C (00095)	rable ended)  litrate-N  tal (00610)  N  gen 40)		mg/I	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> <li>Other:</li> <li>F, A-H<sub>2</sub> SO<sub>4</sub></li> <li>Nitrate-N + , Nitrate-N dissolved (00631)</li> <li>Ammonia-N dissolved (00608)</li> <li>Total Kjeldahl-N ( )</li> </ul>	50. 92.4 44 63 75 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	1021 1 10/27 10/30 10/30 10/30 11/5 10/27
25 °C (00095)	rable ended)		mg/I	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> <li>Other:</li> <li>Nitrate-N + . Nitrate-N dissolved (00631)</li> <li>Ammonia-N dissolved (00608)</li> <li>Total Kjeldahl-N ( )</li> <li>Other:</li> </ul>	50. 92.4 44 63 75 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	1021 1 10/27 10/30 10/30 10/30 11/5 10/27
25 °C (00095)	rable ended)		mg/I	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> <li>Other:</li> <li>Nitrate-N + . Nitrate-N dissolved (00631)</li> <li>Ammonia-N dissolved (00608)</li> <li>Total Kjeldahl-N ( )</li> <li>Other:</li> </ul>	50. 92.4 44 63 75 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	1021 1 10/27 10/30 10/30 10/30 11/5 10/27
25 °C (00095)	rable ended)		mg/I	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> <li>Other:</li> <li>Nitrate-N + . Nitrate-N dissolved (00631)</li> <li>Ammonia-N dissolved (00608)</li> <li>Total Kjeldahl-N ( )</li> <li>Other:</li> </ul>	50. 92.4 44 63 75 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	1021 1 10/27 10/30 10/30 10/30 11/5 10/27
25 °C (00095)	rable ended)		mg/I	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> <li>Other:</li> <li>Nitrate-N + . Nitrate-N dissolved (00631)</li> <li>Ammonia-N dissolved (00608)</li> <li>Total Kjeldahl-N ( )</li> <li>Other:</li> </ul>	50. 92.4 44 63 75 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	1021 1 10/27 10/30 10/30 10/30 11/5 10/27
25 °C (00095) □ Total non-filter residue (susper (00530) □ Other: □ Other: □ Other: □ Other: ■ Nitrate-N + , N total (00630) □ Ammonia-N to □ Total Kjeldahl- () □ Chemical oxyg demand (0034 □ Total organic of () □ Other: □ Othe	rable ended)		mg/I	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue (dissolved) (70300)</li> <li>Other:</li> <li>Nitrate-N + . Nitrate-N dissolved (00631)</li> <li>Ammonia-N dissolved (00608)</li> <li>Total Kjeldahl-N ( )</li> <li>Other:</li> </ul>	50. 92.4 4 26 6 3 	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	1021 1 1 10/27 10/30 10/30 11/5 10/27

REPORT TO:	David Boyer	S.L.D. No. OR- 86-1159 A-B
	N.M. Oil Conservation Division	
	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
HONE(S):	827-5812	USER CODE:   8   2   2   3   5
SUBMITTER:	David Boyer	CODE: 12 16 10 1
	CTION CODE: (YYMMDDHHMMIII)	
	WATER X SOIL , FOOD , OTHER	
county: 1	; CITY:/	
	E: (Township-Range-Section-Tracts)   / 9	$ 5 + 3 7  \neq 3 3 + 3  -  - (10N06E24342)$
		s) below to indicate the type of analytical screens
	r possible list specific compounds suspected of	
-	PURGEABLE SCREENS	EXTRACTABLE SCREENS
	ic Purgeables (1-3 Carbons) ic & Halogenated Purgeables	(751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides
	pectrometer Purgeables	(755) Base/Neutral Extractables
(766) Trihalo	nethanes	(758) Herbicides, Chlorophenoxy acid
Other	Specific Compounds or Classes	(759) Herbicides, Triazines
		(760) Organochlorine Pesticides
<u> </u>		(761) Organophosphate Pesticides
		(767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons
		(762) SDWA Pesticides & Herbicides
Remarks:	· · · · · · · · · · · · · · · · · · ·	
FIELD DATA:		
pH=; Cor	nductivity= $1752$ umho/cm at $18$ °C;	Chlorine Residual=mg/l
Dissolved Oxygen=	=mg/l; Alkalinity=mg/l; Flow	Rate
Depth to water	21_ft.; Depth of well_24_ft.; Perforat	ion Intervalft.; Casing:PUC
Sampling Location	, Methods and Remarks (i.e. odors, etc.)	
INI	emi Rangly 120 th (	Railed ~ 5times w/i"Back
The second	ght hydrocarlon	
		results of my field analyses, observations and //
SLi		identified analyses, observations and
Certify that the	collector): huys A	Method of Shipment to the Lab: 1/an
I certify that the activities.(signature	collector):	5, and/or
I certify that the activities.(signature This form accomp Samples were pre	e collector): Danies 2 - Septum Vials, Glass Jug served as follows:	gg, and/or
I certify that the activities.(signature This form accomp Samples were pre NP:	e collector): banies 2 - Septum Vials, Glass Jug served as follows: No Preservation; Sample stored at room terr	gg, and/or
I certify that the activities.(signature This form accomp Samples were pre NP: P-Ice	a collector): wanies 2 - Septum Vials, Glass Jug served as follows: No Preservation; Sample stored at room terr Sample stored in an ice bath (Not Frozen).	nperature.
I certify that the activities.(signature This form accomp Samples were pres NP: P-Ice P-Na S O 2 2 3	e collector): panies Septum Vials, Glass Jug served as follows: No Preservation; Sample stored at room terr Sample stored in an ice bath (Not Frozen). Sample Preserved with Sodium Thiosulfate t	nperature.
I certify that the activities (signature This form accomp Samples were pre NP: P-Ice P-Na S O CHAIN OF CUS	e collector): banies 2 - Septum Vials, Glass Jug served as follows: No Preservation; Sample stored at room tem Sample stored in an ice bath (Not Frozen). Sample Preserved with Sodium Thiosulfate to FODY	gg, ańd/or
I certify that the activities.(signature This form accomp Samples were pre NP: P-Ice P-Na S O CHAIN OF CUS I certify that this	e collector): banies 2 - Septum Vials, Glass Jug served as follows: No Preservation; Sample stored at room tem Sample stored in an ice bath (Not Frozen). Sample Preserved with Sodium Thiosulfate to FODY	gg, and/or
I certify that the activities.(signature This form accomp Samples were pre NP: P-Ice P-Na S O CHAIN OF CUS I certify that this at (location)	a collector): banies 2 - Septum Vials, Glass Jug served as follows: No Preservation; Sample stored at room tem Sample stored in an ice bath (Not Frozen). Sample Preserved with Sodium Thiosulfate t TODY a sample was transferred from	gg, and/or         nperature.         no remove chlorine residual.
I certify that the activities.(signature This form accomp Samples were pre NP: P-Ice P-Na S O CHAIN OF CUS I certify that this at (location)	a collector): paniesSeptum Vials,Glass Jug served as follows: No Preservation; Sample stored at room terr Sample stored in an ice bath (Not Frozen). Sample Preserved with Sodium Thiosulfate t TODY s sample was transferred from	gg, and/or         nperature.         no remove chlorine residual.

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THIS PAGE FOR LABORATORY RESULTS ONLY

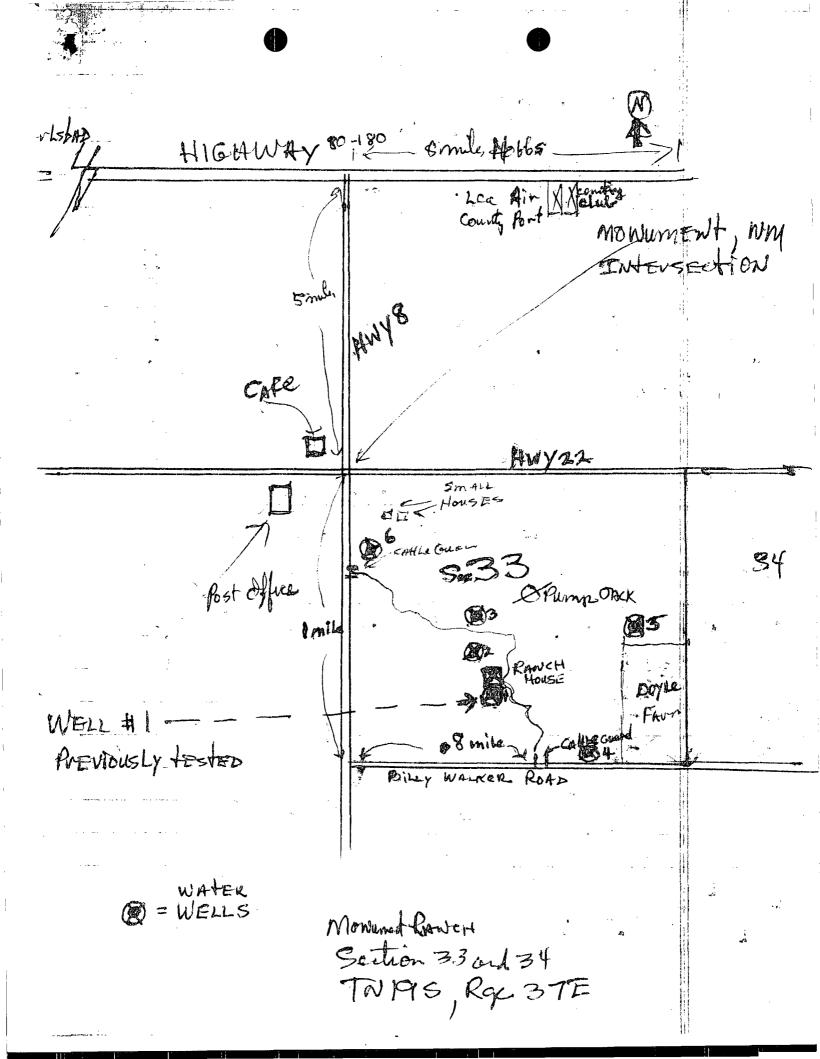
This sample was tested using the analytical screening meth	lod(s) checked below:								
PURGEABLE SCREENS	EXTRACTABLE SCREENS								
(753) Aliphatic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons								
$\mathbf{X}$ (754) Aromatic & Halogenated Purgeables	(760) Organochlorine Pesticides								
(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								
ANALYTICAL RESULTS									
COMPOUND(S) DETECTED CONC.	COMPOUND(S) DETECTED CONC.								
[PPB]	[PPB]								
palogenated purgeables NI	72								
aromatic purseables NI									
* DETECTION LIMIT * * / m									
	2 + DETECTION LIMIT +								
ABBREVIATIONS USED:									
N D = NONE DETECTED AT OR ABOVE THE ST									
T R = DETECTED AT A LEVEL BELOW THE ST									
[ RESULTS IN BRACKETS ] ARE UNCONFIRMED .	AND/OR WITH APPROXIMATE QUANTITATION								
On At									
LABORATORY REMARKS fur Other comp	ounds were delected by the								
aromatic screen that well	not identified however								
it is it to the	$\frac{1}{2} \int \frac{1}{1 + 1} \frac{1}{1$								
Maposoble nat this	is lat contamination								
• 									
CERTIFICATE OF A	NALYTICAL PERSONNEL								
Sept(s) Intacts Vas [] No [] Sect(s) how have	ـ ـ ـ ـ <b>ـ</b>								
Seal(s) Intact: Yes No Seal(s) broken by:	date:								
that the statements on this page accurately reflect the analyt	andling and analysis of this sample unless otherwise noted and								
to 10 MI 10-16-86									
Date(s) of analysis: 10-10-86	11 Triney								
	results for this sample and with the statements in this block.								
Reviewers signature: A. Maylaher									

	NM 87106 (505) 841-2555			
DATE RECEIVED 10 8 86	LAB WC - 4833 CODE 5	9300 🗌 59600 💥 O	THER: 82	235 1
Collection DATE	SITE INFORM-► ATION	vill, and Ronce	f well	#6, Monume
Collected by ZPerson/Agency	Collection site descr	ription		
ENVIRONME SEND NM OIL CO	NTAL BUREAU NSERVATION DIVISION			NOV 2 4 1986
FINAL State Lan	d Office Bldg, PO Box 2 NM 87504-2088	2088	이노	CONSERVATION DIVISIO
Attn: <u>David B</u>	oyer	**************************************		0, 6 ( ) / (
Phone: 827-5	5812		Station/ well code	5-375-33.3
SAMPLING CONDITIONS Condition Condit	Water level	Discharge		Sample type
pH (00400)	Conductivity (Uncorrected)	Water Temp. (00010)	°C	Conductivity at 25°C (00094)
Field comments Shingh	1 1000		18 -	241
No of complex	Milate semala	d in field with		
No. of samples submitted	NF: Whole sample (Non-filtered) □ F: Filtere 0.45 µ Other-specify: □ A: DM SAMPLES	: 5ml conc. HNO <sub>3</sub> ad	mi H₂SO₄/ ded □	A: 4ml fuming HNO <sub>3</sub> a
No. of samples submitted	NF: Whole sample (Non-filtered) □ F: Filtere 0.45 µ Other-specify: □ A:	umembrane filter A: 2 : 5ml conc. HNO <sub>3</sub> ad		A: 4ml fuming HNO <sub>3</sub> a
No. of samples submitted	NF: Whole sample (Non-filtered) □ F: Filtere 0.45 µ Other-specify: □ A: DM SAMPLES	Ivzed F, NA	ded □1	A: 4ml fuming HNO <sub>3</sub> a
No. of samples submitted	NF: Whole sample (Non-filtered) □ F: Filtere 0.45 µ Other-specify: □ A: om SAMPLES Units Date anal µmho	Ivzed F, NA	ded □1 	A: 4ml fuming HNO <sub>3</sub> a Units Date anal mg/I /0.2/ mg/I /0.2/ mg/I /0.2/ mg/I /0.2/ mg/I /0.2/ mg/I /0.2/ mg/I /0.2/
No. of samples submitted	NF: Whole sample (Non-filtered) Other-specify: A: DM SAMPLES Units Date anal	Ivzed         F, NA           Ivzed         Calcium (00915)           Ivzed         Sodium (00930)           Ivzed         Fotassium (00935)           Ivzed         Bicarbonate (00440)           Ivzed         Chloride (00940)	ded □1 	A: 4ml fuming HNO <sub>3</sub> a Units Date anal mg/I /0.2/ mg/I /0.2/ mg/I /0.2/ mg/I /0.2/ G45 mg/I 10/27 AJ mg/I /0/30
No. of samples submitted	NF: Whole sample (Non-filtered) □ F: Filtere 0.45 µ Other-specify: □ A: om SAMPLES Units Date anal µmho	Ivzed         F, NA           Ivzed         Calcium (00915)           Ivzed         Calcium (00930)           Ivzed         Potassium (00930)           Ivzed         Potassium (00930)           Ivzed         Potassium (00930)           Ivzed         Potassium (00940)           Ivzed         Chloride (00940)           Ivzed         Sulfate (00945)	ded 1	A: 4ml fuming HNO <sub>3</sub> a Units Date analy mg/I $10 \ 2/$ mg/I $10 \ 2/$ mg/I $10 \ 2/$ mg/I $10 \ 2/$ mg/I $10 \ 2/$ G45 mg/I $10 \ 2/$ $10 \ 2/$ mg/I $10 \ 2/$ $10 \ 2/$ mg/I $10 \ 2/$
No. of samples submitted	NF: Whole sample (Non-filtered) □ F: Filtere 0.45 µ Other-specify: □ A: om SAMPLES Units Date anal µmho	Ivzed F, NA Calcium (00915) Calcium (00915) Magnesium (00925) Colum (00930) Potassium (00930) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300)	ded 1	A: 4ml fuming HNO <sub>3</sub> a Units Date anal mg/I $/0 \ge 1$ mg/I $/0 \ge 1$ mg/I $(0 \ge 1)$ mg/I $(0 \ge 1)$ mg/I $(0 \ge 1)$ G45 mg/I $10/2 \ge 2$ $1/0 \ge 1$ mg/I $10/2 \ge 2$ $1/0 \ge 1$ $10/2 \ge 2$ $10/2 \ge 2$ 1
No. of samples submitted	NF: Whole sample (Non-filtered) □ F: Filtere 0.45 µ Other-specify: □ A: om SAMPLES Units Date anal µmho	Ivzed F, NA Calcium (00915) Magnesium (00925) Coltania (00930) Potassium (00930) Chloride (00940) Chloride (00945) Chloride (00945) Chloride (00945) Coltania (00945)	ded 1	A: $4m1$ fuming $HNO_3$ a Units Date anal mg/l $10.2/mg/l$ $10.2/$
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No. of samples submitted       Image: Construct of the system (Constructivity (Corrected))         ANALYTICAL RESULTS from NF, NA         Conductivity (Corrected))         25 °C (00095)         Total non-filterable residue (suspended))         (00530)         Other:	NF:         Whole sample (Non-filtered)         □         F:         Filtere 0.45 μ           I Other-specify:         □         A:           om SAMPLES	umembrane filter       A: 2         : 5ml conc. HN03 add         Iyzed       F. NA         Calcium (00915)         Magnesium (00925)         Sodium (00930)         Potassium (00935)         Bicarbonate (00440)         Chloride (00940)         Chloride (00945)         Total filterable residue (dissolved) (70300)         Other:         F. A-H2 SO4         Nitrate-N + , Nitrate-I dissolved (00631)         Ammonia-N dissolve (00608)         Total Kjeldahl-N (         Other:	ded 1	A: 4ml fuming HNO <sub>3</sub> a Units Date anal mg/I 10 21 mg/I 10 21 mg/I 10 21 mg/I 10 21 G45 mg/I 10 27 21 mg/I 10 27 22 mg/I 10 27 23 mg/I 10 27 24 mg/I 10 27 27 mg/I 10 27 27 mg/I 10 27 10

FOR OCD USE -- Date Owner Notified 12/9/12 Phone or letter Initials

10

Mr DAVID BOYEN Oil Conservation Director CCT - 9 1986 POB 2088 SANte Pe, NM 87504 Dece w-Lsbig HW:YO Monument Therestor à Fe onto Hwy 22 颬 175 \$.33 × Port \$ = WELLS



Hobbs Trip - 10/3/86 LV 8: 5 MM RIN SPM (By Plane) Ronch House Well, #1 Joe Williams Reader V 50 ST. Deep pump Set NABST Rate-Japm Wates Joyel ~ 405T 6"coning Drillog V Tycarsogo 8610071035 Spicon 175 11m hor @ 19°C Well # 2 Approx 2424 old a SOST deep? (40 ST measures) depth to water 34 St Show 100 B" duame le 7 Its caring coning STeel 8610071105 ( sp cond 550 @ 19°C Well # 3 Approx 7 415000 ~ 4157 deep, DTW 3257 6"PUC Casers Sp. cond 850 @ 18.5°C. E610071130 octor, Hyproconton sheen m

Williamf # 4 VID. 5' Cates Total Nepths -49 (5 caring Top) Drilled Appres 3 1/28 Rafe 4" DVC Sp. cond 625 @ 18.5°C Stop 8610021205 Ch org inilliams#5 Dinilled ~ 74/28 098 Sp-Conf 4756 15°C 8610071230 C/H 020 Total 10-pth ~ 4005 DTW 27 FT 6"PUC Will ions # 6 brie 21' From Topologicky Tetal Dopoth 24', GUPVE Slight Id C Sharn, Some pricon



APOLLO REALTY



(Sales, Loans, Appraisals) P. O. BOX 2057 75285 ALBUQUERQUE, N. M. 87193+ 87194-0285

831-5334 PHONE (505) 295 2266\* 3906 CENTRAL S.E. ALBUQUERQUE, N.M. 87108 POB 7525

September 24, 1986

Mr. David Boyer, Bureau Chief Environmental Bureau New Mexico Oil Conservation Commission POB 2088 (827-5812, 827-5800) Sante Fe. NM 875404

Re: Texas-New Mexico Oil Pipeline contamination of the water wells of the community of the Monument, New Mexico and the wells of the Monument Rench, owned by me, adjoining this this Community.

Dear Mr. Boyer:

Recently, I have discussed with you and Oscar Simpson of the E.I.D. (water Supply Division), P.O.B. 968, Sante Fe 87504, the problem of oil contamination of water wells in the Community of Monument, and the contamination of wells on my Ranch that adjoins the Monument Townsite.

The E.I.D. has stated they are going to **test** my wells but have a financial impediment at this time; also, you stated that you would be able to test the wells in about a month.

You have requested the location of my wells; all 5 wells are officially located fm feet from section lines in Section 33, Tn19S, Rge 37E, Lea County, New Mexico; I do not have copies of these well records with me in Albuquerque at this time; would you please request these from the State Engineer's Office.

Please advise me if there is any other information or action necessry in order for you to continue your investigation.

Sincerely,

Joe R. Williami

Joe R. Williams

cc OscærSimpson Gene Samberson

J. R. WILLIAMS Licensed & Bonded Broker

## WILLIAM G. W. SHOOBRIDGE

ATTORNEY AT LAW

817 NORTH LINAM DRAWER 5889 HOBBS, NEW MEXICO 88241

### (505) 397-2496 OR 397-2497

June 26, 1986

Mr. Dave Boyer Energy and Minerals Department Oil Conservation Division P. O. Box 1980 Hobbs, New Mexico 88240

> Re: Joe R. Williams -v- Texas-New Mexico Pipeline Co.

Dear Mr. Boyer:

Joe R. Williams has asked me to investigate a potential water contamination case against Texas-New Mexico Pipeline Company. I enclose herewith for your reference a copy of a letter that Jerry Sexton wrote to Mr. Williams in August of 1985. Mr. Williams believes that his water was contaminated as a result of a pipeline leak that occurred in August of 1984. I enclose herewith copies of the location of Mr. Williams' property. Mr. Williams advises me that the Monument Wells are in the Monument Draw which crosses his property. He further claims that the ground water system in the area flowsfrom Northwest to Southeast. Mr. Sexton's letter indicates that you would be willing to discuss the hydrology of the area.

Please give me a call so that we can set up an appointment to discuss this matter. Your cooperation is appreciated.

Very truly yours,

WILLIAM G. W. SHOOBRIDGE

WILLIAM G. W. SHOOBRIDGE

/ccs cc: Joe R. Williams Jerry Sexton

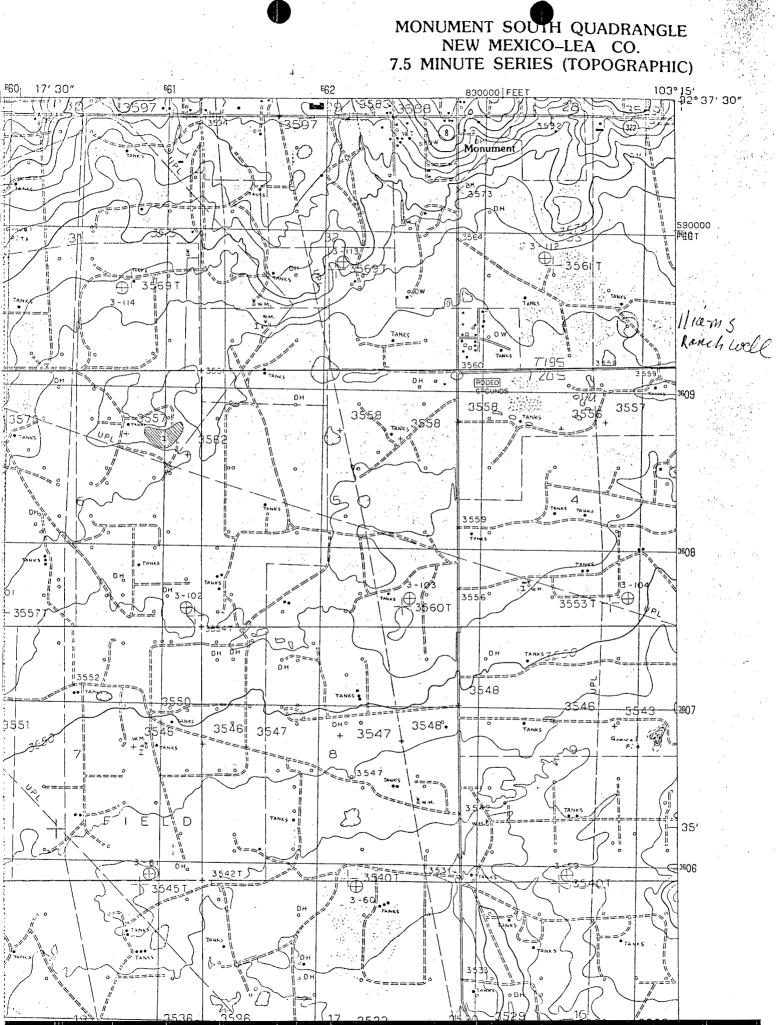
### NEW MEXICO OIL CONSERVATION DIVISION

# NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOMOUTS

NAME OF				ADDRESS				· · · · · · · · · · · · · · · · · · ·	
	-NEW MEXIC	O PIPE L	INE CO	1	528, I	Hobbs, New	Mexico	0 88240	
REPORT FIRE	BREAK	SPILL	LEAK	BEOMOU		OTHER*			
TYPE OF DRLG	PROD	TTALK	PIPE X	IGASO	101L	OTHER*			
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HAME OF FACILITY 4" G	athering I	ine							
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85-036940			•			<u>.</u> .			

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\*\*\* Permanent repairs to be made by replacing 40 ft 4" gathering line



## MONUMENT SOUTH QUADRANGLE NEW MEXICO-LEA CO. 7.5 MINUTE SERIES (TOPOGRAPHIC)

