# NM1 - 6

# INSPECTIONS & DATA



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

August 18, 1997

### CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-325

Mr. Tony Schmitz T-N-T Construction, Inc. HCR 74, Box 115 Lyndrith, New Mexico 87029

RE: Evaporation Pond, Treating Plant and Landfarm Inspection (NM-01-0008)
T-N-T Construction, Inc.
Evaporation Pond and Treating Plant Location NE/4 SE/4 of Section 7, Township 25
North, Range 3 West, NMPM, Rio Arriba County, New Mexico
Landfarm Location SW/4 SE/4 and SE/4 SW/4 of Section 5, Township 25 North,
Range 3 West, NMPM, Rio Arriba County, New Mexico

Dear Mr. Schmitz:

The New Mexico Oil Conservation Division (OCD), inspected T-N-T Construction, Inc. (T-N-T) evaporation pond, treating plant and landfarm waste management facility on June 9, 1997. The T-N-T evaporation pond and treating plant is located in the NE/4 SE/4 of Section 7, Township 25 North, Range 3 West, NMPM, Rio Arriba County, New Mexico and the T-N-T landfarm is located in the SW/4 SE/4 and SE/4 SW/4 of Section 5, Township 25 North, Range 3 West, NMPM, Rio Arriba County, New Mexico 3, Township 25 North, Range 3 West, NMPM, Rio Arriba County, New Mexico 4, North, Range 3 West, NMPM, Rio Arriba County, New Mexico 5, Township 25 North, Range 3 West, NMPM, Rio Arriba County, New Mexico.

Overall the OCD found T-N-T to have a well maintained facility. The OCD inspection and current file review of T-N-T indicates some permit deficiencies. Attachment 1 lists the permit deficiencies found at T-N-T during the inspection and the new Rule 711 requirements that are not on file. Attachment 2 contains photographs taken during the inspection. T-N-T shall provide OCD with a detailed description of how the corrections will be made and a time table of when each of the corrections will be completed. A response is required by T-N-T to these deficiencies by October 24, 1997.

Pursuant to Order R-10411-B the OCD General Rule 711 has been revised. The OCD is currently in the process of re-permitting all surface waste management facilities under the new Rule 711. T-N-T's waste management facility is included under the new Rule 711. A copy of Order R-10411-B along with the new bond forms is included with this report. A permit application, Form C-137 (Attachment 3), shall be filed with the OCD according to the instructions in Attachment 1, Section 21.

Please be advised that the bonding requirements have changed under the new Rule 711. The

Mr. Tony Schmitz August 18, 1997 Page 2

bonded amount will be based upon the estimated closure costs that the State of New Mexico would incur if a third party contractor were to remediate the facility (see Rule 711.B.1.i and 711.B.3). T-N-T must have a new bond in place for the approved estimated closure amount prior to receiving a new waste management facility permit.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Mostyne g Thily

Martyne J. Kieling Environmental Geologist

Attachments xc: Aztec OCD Office

### ATTACHMENT 1 INSPECTION REPORT JUNE 9, 1997 T-N-T CONSTRUCTION, INC. (NE/4 SE/4 of Section 7, and SW/4 SE/4 and SE/4 SW/4 of Section 5, Township 25 North, Range 3 West, NMPM) RIO ARRIBA COUNTY, NEW MEXICO

1.

2.

<u>Pond Freeboard</u>: Liner markings or some other device shall be installed to accurately measure freeboard. Pond freeboard shall be a minimum two (2) feet below the top of the lowest point on the levee. The pond must be maintained below freeboard level at all times.

Pond one and two are lacking freeboard markers that accurately measure the two (2) foot freeboard height (see pictures 9, 10, 11, 13 and 14). The water level on pond one was above freeboard.

<u>Pond Levee</u>: The top of the levee shall be level, ponding of water should not occur, and the outside grade of the levee should be maintained to minimize erosion and maintain proper levee width.

The levee top and sides were in excellent condition (see pictures 9, 10, 11, 12, and 14).

3. <u>Leak Detection System</u>: The top of the leak detection monitor well must be above the top of the levee. The monitor well should be covered. In addition, the leak detection monitor well shall be inspected no less than two times per month.

The top of the leak detection monitor well was below the levee (see picture 12). The monitor well casing should be extended to a height above the levee to ensure that any system leaks do not have a direct route to the environment via the monitor well. Reporting shows that the monitor well has been inspected regularly. The appearance of any additional fluids within the monitor well should be sampled and comparison analysis made to the contents within the pond.

4. <u>Sludge Build-up</u>: Any sludge build-up in the bottom of the pond in excess of twelve inches (12") will be removed and disposed of at an OCD approved disposal facility.

Sludge thickness at the bottom of the pond should be measured.

5. <u>Security</u>: The facility shall be secured when no attendant is present, to prevent any

Page 1 of 6

unauthorized dumping. Securing the facility may included locks on tank valves, a perimeter fence and locked gate or other similar security measures.

Facility has a perimeter fence and locking gate.

7.

6. <u>Signs</u>: The facility shall have a sign in a conspicuous place at the facility. The sign shall be maintained in legible condition and shall be legible from at least fifty (50) feet and contain the following information: a) name of facility, b) location by quarter-quarter section, township and range, and c) emergency phone number.

Both Facilities have a clearly labeled signs posted within view.

Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets should also be stored on an impermeable pad and curb type containment.

Empty drums and/or drums containing fluids were located at the facility (see pictures 6, 7 and 8). All drums/buckets containing fluids should be placed on an impermeable pad with curbing.

All drums and chemical containers should be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill or ignite.

8. <u>Process Area</u>: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

Overall yard maintenance practices at the facility were good. However, the compressors at pond one and two (see picture 14) have quite a bit of spilled or splattered oil and grease. The spills should be cleaned up and pad and curb or drip pan containment must be installed.

9. <u>Above Ground Tanks</u>: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm so that leaks can be identified.

The berms around the above ground tanks at the evaporation pond need to be checked. Additional berming or repairs are needed (see pictures 6, 7 and 8).

Page 2 of 6

10. <u>Open Top Tanks and Pits</u>: To protect migratory birds, all tanks exceeding 16 feet in diameter, and exposed pits and ponds shall be screened, netted or covered.

The evaporation ponds were oil free except for a small amount of oil on the north side of pond one that requires skimming (see pictures 1, 2, and 3). Netting is not required on evaporation ponds one and two as long as they are kept oil free. The open top separating tanks should be screened or netted (see pictures 6, 7 and 8).

11. <u>Above Ground Saddle Tanks</u>: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

NA There were no above ground saddle tanks at the facility.

12. <u>Tank Labeling</u>: All tanks, drums and containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill or ignite.

The above ground tanks and drums are not labeled as to their contents or the hazards of the contents (see picture 6, 7 and 8).

13. <u>Below Grade Tanks/Sumps</u>: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing and/or visual inspection of cleaned out tanks or sumps, or other OCD approved methods.

The below grade sumps located at tank valves and below grade tanks (see picture 6) must have annual integrity testing. Testing might include cleaning and visually inspecting the bottom of the sumps and tank. The below grade mixing tank located at the landfarm facility should be inspected annually (see picture 1)

14. <u>Underground Process/Wastewater Lines</u>: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter. Companies may propose various methods for testing such as pressure testing or other OCD approved methods.

Any underground process/wastewater lines must have a mechanical integrity testing proposal.

15. <u>Housekeeping</u>: All systems designed for spill collection/prevention should be inspected frequently to ensure proper operation and to prevent overtopping or system failure.

The facility tanks were free of over toping stains (see picture 6, 7 and 8). Overall yard maintenance and spill prevention/cleanup was good. The landfarm area was well maintained.

16. <u>Trash and Potentially Hazardous Materials</u>: All trash and potentially hazardous materials should be properly disposed of.

There was very little trash at the facility, with the exception of the unmarked drums and buckets (see picture 6, 7, and 8). The landfarm was free of plastic liner fragments (see pictures 1, 2, 3, 4 and 5)

17. <u>Spill Reporting</u>: All spills/releases shall be reported pursuant to OCD Rule 116 and WQCC 1203 to the appropriate OCD District Office.

There were no spills evident at this facility.

18. <u>Berming</u> : An adequate berm will be constructed and maintained to prevent runoff and runon for that portion of the landfarm facility containing contaminated soils.

Landfarm cell berms are in good shape and well maintained (see pictures 2, 3, 4, and 5).

19. <u>Soil Spreading, Disking and Lift Thickness</u>: All contaminated soils received at the facility will be spread and disked within 72 hours of receipt. Soils will be spread on the surface in six inch lifts or less. Soils will be disked a minimum of one time every two weeks (biweekly) to enhance biodegradation of contaminants.

At the time of inspection, contaminated soils had been disked accordingly (see pictures 2, 3, 4, and 5).

20. <u>Free Liquids</u>: No free liquids or soils with free liquids will be accepted at the landfarm facility.

NA There were no free liquids or soils with free liquids at the landfarm.

21. <u>Application Requirements for Permit Under the New Rule 711</u>: An application, Form C-137, for a permit renewal shall be filed in DUPLICATE with the Santa Fe Office of the Division and ONE COPY with the Hobbs OCD district office. The application shall comply with Division guidelines and shall include:

(a) The names and addresses of the applicant and all principal officers of the business if different from the applicant;

Please submit with C-137 application.

(b) A plat and topographic map showing the location of the facility in relation to governmental surveys (1/4 1/4 section, township, and range), highways or roads giving access to the facility site, watercourses, water sources, and dwellings within one (1) mile of the site;

### This is already on file with the OCD.

(c) The names and addresses of the surface owners of the real property on which the management facility is sited and surface owners of the real property of record within one mile of the site;

This is already on file with the OCD.

(d) A description of the facility with a diagram indicating location of fences and cattle guards, and detailed construction/installation diagrams of any pits, liner, dikes, piping, sprayers, and tanks on the facility;

Please submit an updated map of the processing and evaporation pond facility including upright tanks, open top separation tanks, berms, piping and all three evaporation ponds.

(e) A plan for management of approved wastes;

This is already on file with the OCD.

(f) A contingency plan for reporting a cleanup of spills or releases;

This is already on file with the OCD.

(g) A routine inspection and maintenance plan to ensure permit compliance;

This is already on file with the OCD.

(h) A Hydrogen Sulfide  $(H_2S)$  Prevention and Contingency Plan to protect public health;

This is already on file with the OCD.

Page 5 of 6

(i) A closure Plan including a cost estimate sufficient to close the facility to protect public health and the environment; said estimate to be based upon the use of equipment normally available to a third party contractor;

Please submit with C-137 application.

(j) Geological/hydrological evidence, including depth to and quality of groundwater beneath the site, demonstrating that disposal of oil field wastes will not adversely impact fresh water;

This is already on file with the OCD.

(1) Certification by an authorized representative of the applicant that information submitted in the application is true, accurate and complete to the best of the applicant's knowledge.

Please submit with C-137 application.



PHOTO NO. 3 DATE: 06/09/97



PHOTO NO. 4 DATE: 06/09/97



PHOTO NO. 5 DATE: 06/09/97



### PHOTO NO. 6 DATE: 06/09/97





PHOTO NO. 7 DATE: 06/09/97

PHOTO NO. 8 DATE: 06/09/97



PHOTO NO. 9 DATE: 06/09/97



PHOTO NO. 10 DATE: 06/09/97



PHOTO NO. 11 DATE: 06/09/97



PHOTO NO. 12 DATE: 06/09/97



### PHOTO NO. 13 DATE: 06/09/97



### PHOTO NO. 14 DATE: 06/09/97



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

July 11, 2000

### <u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO.</u> Z-559-573-322

Mr. Tony Schmitz T-n-T Construction, Inc. HCR 74 P.O. Box 115 Lyndrith, New Mexico 87029

RE: Surface Waste Management Facility Inspection Report: Permit NM-01-0008 T-n-T Construction, Inc. SE/4 Section 7 and SW/4 Section 8 (evaporation ponds), and the SW/4 SE/4 and SE/4 SW/4 Section 5 and the NE/4 NW/4 Section 8 (landfarm), Township 25 North, Range 3 West, NMPM, Rio Arriba County, New Mexico

Dear Mr. Schmitz:

The New Mexico Oil Conservation Division (OCD) inspected the T-n-T Environmental, Inc. (T-n-T) commercial surface waste management facility at the above location on May 15, 2000.

The OCD inspection and file review of T-n-T indicates that T-n-T is deficient in several permit conditions. Attachment 1 lists the permit deficiencies during the inspection and file review. Attachment 2 contains photographs taken during the inspection. T-n-T shall provide OCD with a detailed description of how the corrections will be made and a timetable of when each of the corrections will be completed. T-n-T must respond to the permit deficiencies Notice of Violation by August 11, 2000.

A review T-n-T's financial assurance finds that the OCD does not have a bond in place. A \$62,500 bond was due August 6, 1999. Please be advised that the financial assurance amount must be increased to \$125,000 by August 6, 2000. If you do not have a copy of the OCD surface waste management facility financial assurance forms you may obtain them from the OCD web site <u>http://www.emnrd.state.nm.us/ocd/</u>.

If you have any questions please contact Martyne Kieling at (505) 827-7153.

Sincerely,

Martyne J. Kieling

Environmental Geologist

Attachments xc: Aztec OCD Office

### ATTACHMENT 1 INSPECTION REPORT PERMIT NM-01-0008 T-n-T ENVIONRMENTAL, INC. SE/4 Section 7 and SW/4 Section 8 (evaporation ponds), and the SW/4 SE/4 and SE/4 SW/4 Section 5 and the NE/4 NW/4 Section 8 (landfarm), Township 25 North, Range 3 West, NMPM, Rio Arriba County, New Mexico (July 11, 2000)

1. <u>Fencing and Signs</u>: The facility will be fenced and have a sign at the entrance. The sign shall be maintained in good condition and shall be legible from at least fifty (50) feet and contain the following information : a) name of facility, b) location by section, township and range, and c) emergency phone number.

Facility is secured with fence and locking gate and has a sign at the entrance. The Landfarm sign was blocked by plants and tires (see photo 1).

T-n-T must maintain the sign so that it is visible.

. . .

2. <u>Berming</u>: An adequate berm will be constructed and maintained to prevent runoff and runon for that portion of the facility containing contaminated soils.

The landfarm facility berms are in good condition (see Photo 2, 3, and 4).

3. <u>Soil Spreading, Disking and Lift Thickness</u>: All contaminated soils received at the facility will be spread and disked within 72 hours of receipt. Soils will be spread on the surface in six inch lifts or less. Soils will be disked to enhance biodegradation of contaminants.

At the time of inspection, soils had been spread and disked accordingly (see Photo 2, 3, and 4).

4. <u>Treatment zone monitoring</u>: Quarterly treatment zone monitoring results must be submitted to the OCD office within (30) days of receipt from the laboratory.

The OCD has not received any treatment zone analysis reports since October of 1996.

T-n-T is in violation of Permit NM-01-0008 and must submit treatment zone monitoring results for all quarters back to 1996.

5. <u>Trash and Potentially Hazardous Materials</u>: All trash and potentially hazardous materials should be properly disposed of.

The facility was tidy except for the tires at the entrance sign. and there was no trash or debris present (see photos 1, 2, 3, and 4).

6. <u>Above Ground Tanks</u>: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable pad within the berm so that leaks can be identified.

The Above ground tanks located at the landfarm are not in the original permit or facility description (see photo 6). Additional tanks including those in photo 9 and 10 were not in the original permit or facility description. The OCD has not received a request to modify Permit NM-01-0008 to add these tanks to the process. This is a violation of Permit NM-01-0008, Facility and Evaporation Pond Operations, Condition 6 and 10.

T-n-T must request to modify the landfarm and produced water facility operations. A Form C-137 is enclosed. Please submit an updated facility map showing details of all tankage, pipeing, and operating systems. Please include the tank volume and the material held within (ie produced water, oil, drilling mud or type of chemical)

Above ground tanks located at the landfarm are not bermed to hold the required volume(see photo 6). Many of the above ground tanks at the produced water facility were not bermed (see photo 9, 10, 13, 14, 15, and 16).

T-n-T must install berms around all tanks or tank areas.

<u>Sumps and Valve Catchments</u>: All sumps and catchments must be kept empty so that leaks can be identified and to prevent overflow onto the ground. All pre-existing below grade sumps or catchments must demonstrate integrity on an annual basis. Integrity tests must include visual inspections of cleaned out sumps or catchments.

Valve catchments and buried sumps contained oil and fluid (see photos 11 and 12). The catchments must be emptied each time a truck unloads. Facility inspections must be conducted on at least a daily basis and sumps and catchments emptied. Sumps and catchments should be cleaned and inspected for integrity on an annual basis. Soil contaminated by over flow or leaking sumps and catchments must be cleaned up and remediated by on site remediation or landfarming at the facility landfarm.

c

8. <u>Equipment Maintenance</u>: Equipment, tanks, pipe valves and connections must be inspected on a regular basis and repairs made as needed.

N/A no leeks were observed.

9. <u>Evaporation Pond Inspection and Maintanece</u>: The pond must be inspected on a weekly basis or immediately following any consequential rainstrom or windstorm. If any defects are noted repairs must be made as soon as possible.

The evaporation pond spray system must be inspected and modified to assure that it is working correctly. The sprayers have been releasing spray to the exterior berms around the pond (see photo 18). Evaporation and enhanced evaporation must be confined within the lined berm area.

T-n-T must propose a modification to their current design to avoid overspray of produced water.

10. Pond Freeboard: The pond shall have a minimum freeboard of 1½ feet. A device shall be installed or a marker painted on the pond liners to accurately measure freeboard.

Free board marking was not visible (see photos 17 and 18).

T-n-T must mark the liner or install some devise to note the  $1\frac{1}{2}$  foot freeboard.

11. <u>Pond Sludge Thickness</u>: Sludge thickness in the base of the pond will be measured annually. Any build-up in excess of 12 inches will be removed and landfarmed.

No records have been kept as to the last time sludge was measured or removed.

T-n-T must measure each pond yearly and remove sludge if in excess of 12 inches.

12. <u>Leak Detection System Inspection</u>: The leak detection system must be inspected monthly and if fluid is present samples of the fluid will be compared with the fluids in the pond. Results must be recorded and maintained for OCD review.

A record inspection shows that the leak detection system has been monitored weekly and that the monoitor wells have been checked monthly.

According to Permit NM-01-0008 an annual report of these test must be sent to the Santa Fe office for annual review by July 6<sup>th</sup> of each year.

13. <u>Drum Storage</u>: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets should also be stored on an impermeable pad and curb type containment.

Drums and buckets containing chemicals and other materials were not stored on impermeable secondary containment (see photos 7, 8, 13 and 14). Empty drums were not properly stored.

0

All drums and chemical containers should be clearly labeled to identify their contents and other emergency information necessary if they were to rupture, spill or ignite.

Some containers were clearly labeled others were not (see photo 8).

### T-n-T must store and contain all drums properly.

14. <u>Above Ground Saddle Tanks</u>: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

# One saddle tank was not clearly labeled and did not secondary containment (see photo 13). Saddle tanks must be placed on impermeable pad and curb type containment.

15. <u>Tank Labeling</u>: All tanks, drums and containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill or ignite.

Tanks were not numbered and were not clearly labeled to identify their contents and hazards (see photos 6, 9, 10, 13, 14, 15 and 16). Placards or stencils must be placed on all tanks.

16. <u>Migratory Bird Protection</u>: All tanks exceeding 16 feet in diameter and exposed pits, ponds or lagoons must be screened, netted, covered or otherwise rendered not hazardous to migratory birds.

# Open top tanks and steel pits were not netted, screened or covered (see photos 5, 10 and 14).

17. <u>Spill Reporting</u>: All spills/releases shall be reported pursuant to OCD Rule 116 to the appropriate OCD District Office.

At the time of inspection, there were no spills evident at this facility.

18. <u>Regular Facility Inspections</u>: Facility inspections and maintenance must be conducted on at least a daily basis and immediately following each consequential rainstorm or windstorm.

The current permit NM-01-0008 requires these inspections be recorded. Daily facility inspection records have not been kept. Biweekly disking records for the landfarm have been kept.

19.  $H_2S$  Screening:  $H_2S$  screening must be recorded and maintained.

The current permit NM-01-0008 requires  $H_2S$  screening and record keeping to be performed twice per day at 4 points at each pond.

20. <u>Waste Acceptance and Disposal Documentation</u>: Comprehensive records of all material disposed of aththe facility must be maintained for each load. Documentation may include: 1) generator; 2) origin; 3) date received; 4) quantity; 5) certification; 6) NORM status declaration; 7) transporter; 8) exact cell location; and 9) any addition of treatment chemicals.

Records of waste received indicate waste acceptance and disposal records are being kept and maintained as required.

÷



# ThT LandFarm Inspection 6/9/97



# ThT Land Form

# Inspection 6/9/97



# ThT Land Farm Inspection 6/9/97



# Int Land Farm Inspection 6/9/97



# Inspection 6/9/97



# ThT Inspection Treating Plant / Evap Ponds

6/9/97



# ThT Inspection 6/9/97 Treating Plant / Evap Ponds


# ThT Inspection 6/1/97 Treating Plant/ Evap Ponds

8



# Th T Inspection 6/9/97 Treating Plant / Eucop Ponds



ThT Inspection 6/9/97 Treating Plant & Evap Ponds



ThT Inspection 619/97 Treating Plant / Europ Ponds



# ThT Inspection 6/9/97 Treating Plant / Europ Ponds



That treating Plant Europ Ponds Inspection 6/9/97



# ThT Inspection 6/9/97 Europ Ponds

ATTACHMENT 2: T-n-T Environmental, Inc. Permit NM-01-0008

•...



Photo 1 May 15, 2000 Landfarm entrance sign



Photo 4 May 15, 2000 Landfarm looking east.



Photo 2 May 15, 2000 Landfarm looking east.



Photo 1 May 15, 2000 Stabilization trough.



Photo 3 May 15, 2000 Landfarm looking south



Photo 6 May 15, 2000 Stabilization holding tanks.

Page 1



· · .

Photo 7 May 15, 2000 Drum storage without secondary containment.



Photo 8 May 15, 2000 Drum and container storage without secondary containment.



Photo 10 May 15, 2000 Open top tank without secondary containment.



Photo 11 May 15, 2000 Buried sumps containing liquid.



Photo 9 May 15, 2000 Tanks without secondary containment



Photo 12 May 15, 2000 Buried sumps containing liquid.







•

Photo 13 May 15, 2000 Produced water receiving area. Looking east



Photo 14 May 15, 2000 Produced water receiving area. Looking s.east



Photo 15 May 15, 2000 Produced water receiving area. Looking south



Photo 16 May 15, 2000 Produced water receiving area.



Photo 17 May 15, 2000 Evaporation pond 1 containing free oil.



Photo 18 May 15, 2000 Evaporation pond 3 Salt overspray

-0¥B.	'	rks		1 # 1	leak detected		CHINN C						Date Time	05.07.4 15:32	Date Time		Date Time	-	107:8
93 521-07	ES / PARAMETERS	Rema		Dond	Demilitary	C#BNR0#2	# Dend #	-	 		 •	 		١				-	3304 Longmire Drive College Station, TX 77845 Telephone (409) 774-4999
Q			7-40N	Z	5	<b>W</b> 7	2		 		 	 		land.	ure)		ory: (Signature)		80x 256 ation, TX 77845 5 (409) 776-8945
' RECOR	thèr/	, Bra	Contention	7	t	3	5	-	 		 	 		10 min 2	ceived by: (Signat		scelved by laborato	ies, Inc.	Suite B Route 3, E 715 College St 450 Telephone
<b>USTODY</b>	Evapora	No.	Matrix	20	120	420	HZO						Time	10201	Time Re		Time	Laborator	Technology Blvd. S eman, Montana 597 phone (406) 586-84
I OF C	h Mi HZ	istody Tape		-1	-4-				 		 	 	et of	2010 C	Date		Date	untain	eet 910 01 Bozé 3-4737 Tele
CHAIN	ied J	Chain of Cu	Lab Number	2533	2534	2535	K52											Inter-Mo	☐ 2506 West Main Str Farmington, NM 874 Telephone (505) 326
			Time	11:45	21:11	10:45	51:01				 			4					rcle ng 82716 ) 682-8945
			Date	050703	050993	Socoso	207020					 		Hel					☐ 1714 Phillips Ci Gilletta, Wyomii Telephone (307
Infer-Mourtain Laboratories, Inc.	Client/Project Name	Sampler: (Signature)	Sample No./ Identification	DSOPOSII4S	2111 202020	2401292020	2101 565050		-					(entransies) : Ya beneingen	Relinquished by/(Signature)	Ņ	Reinquished by: (Signature)		1 1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945

2506 W. Main Street
Farmington, New Mexico 87401

OIL	CONSERVATION DIVISION
050	7004445

Cool/Intact

Sample ID: Laboratory ID: Sample Matrix: Condition:

Client:

#### 0507931145 2533 Water

# Date Reported:05/26/93Date Sampled:05/07/93Time Sampled:1145Date Received:05/07/93

	Analytical			
Parameter	Result	Units		Units
Lab pH	8.0	s.u.		
Lab Conductivity @ 25° C	24,300	umhos/cm		
Total Dissolved Solids @ 180°C	15,800	mg/L		
Total Dissolved Solids (Calc)	14,400	mg/L		
Total Alkalinity as CaCO3	1,190	mg/L		
Total Hardness as CaCO3	597	mg/L		
Bicarbonate as HCO3	1,450	mg/L	23.78	meg/L
Carbonate as CO3	0	mg/L	0.00	meg/L
Hydroxide as OH	0	mg/L	0.00	meq/L
Chloride	7,620	mg/L	215.07	mea/L
Sulfate	411	mg/L	8.57	meq/L
Calcium	164	mg/L	8.19	meq/L
Magnesium	46	mg/L	3.75	meq/L
Potassium	238	mg/L	6.09	meq/L
Sodium	5,160	mg/L	224.45	meq/L
Cations			242.47	meg/L
Anions		••••••	247.43	meq/L.
Cation/Anion Difference			1.01	%

**Reference:** 

Reviewed by

Client:	OIL CONSERVATION DIVISION	Farmington, New M	
Sample ID:	0507931115	Date Reported:	05/26/93
Laboratory ID:	2534	Date Sampled:	05/07/93
Sample Matrix:	Water	Time Sampled:	1115
Condition:	Cool/Intact	Date Received:	05/07/93

	Analytical			
Parameter	Result	Units		Units
_ab pH	7.6	s.u.		
_ab Conductivity @ 25° C	23,300	umhos/cm		
otal Dissolved Solids @ 180°C	15,000	mg/L		
Total Dissolved Solids (Calc)	13,700	mg/L		
otal Alkalinity as CaCO3	1,340	mg/L		
Fotal Hardness as CaCO3	777	mg/L		
Bicarbonate as HCO3	1,630	mg/L	26.73	meq/L
Carbonate as CO3	0	mg/L	0.00	meq/L
Hydroxide as OH	0	mg/L	0.00	meq/L
Chloride	7,420	mg/L	209.21	meq/L
Sulfate	123	mg/L	2.57	meq/L
Calcium	211	mg/L	10.52	meq/L
Magnesium	61	mg/L	5.01	meq/L
Potassium	191	mg/L	4.88	meq/L
Sodium	4,900	mg/L	213.14	meq/L
cations			233.55	meq/L
nions			238.52	meq/L
Cation/Anion Difference			1.05	%

**Reference:** 

2	506 V	N. Main	Street
Farmington,	New	Mexico	87401

Client:	OIL CONSERVATION DIVISION		Farmington, Ne
Sample ID:	0507931045	Date Reported:	05/26/93
Laboratory ID:	2535	Date Sampled:	05/07/93
Sample Matrix:	Water	Time Sampled:	1045
Condition:	Cool/Intact	Date Received:	05/07/93

	Analytical			
Parameter	Result	Units		Units
Lab pH	79	SU		
Lab Conductivity @ 25° C	27.600	umhos/cm		
Total Dissolved Solids @ 180°C	19.000	ma/L		
Total Dissolved Solids (Calc)	17.000	ma/L		
Total Alkalinity as CaCO3	1.470	ma/L		
Total Hardness as CaCO3	537	mg/L		
Bicarbonate as HCO3	1,790	mg/L	29.34	meg/L
Carbonate as CO3	0	mg/L	0.00	meq/L
Hydroxide as OH	0	mg/L	0.00	meq/L
Chloride	8,890	mg/L	250.68	meq/L
Sulfate	379	mg/L	7.89	meq/L
Calcium	132	mg/L	6.61	meq/L
Magnesium	50	mg/L	4.12	meq/L
Potassium	338	mg/L	8.63	meq/L
Sodium	6,340	mg/L	275.55	meq/L
Cations			294.92	meq/L
Anions			287.90	meq/L
Cation/Anion Difference			1.20	%

**Reference:** 

2	506	W. Mair	Street
armington,	New	Mexico	87401

Client:	OIL CONSERVATION DIVISION		Farmingtor
Sample ID:	0507931015	Date Reported:	05/26/93
Laboratory ID:	2536	Date Sampled:	05/07/93
Sample Matrix:	Water	Time Sampled:	1015
Condition:	Cool/Intact	Date Received:	05/07/93

	Analytical			
Parameter	Result	Units		Units
_ab pH	7.2	s.u.		
_ab Conductivity @ 25° C	25,000	umhos/cm		
Total Dissolved Solids @ 180°C	17,800	mg/L		
Total Dissolved Solids (Calc)	14,200	mg/L		
Total Alkalinity as CaCO3	201	mg/L		
Fotal Hardness as CaCO3	6,440	mg/L		
Bicarbonate as HCO3	245	mg/L	4.02	meq/L
Carbonate as CO3	0	mg/L	0.00	meq/L
Hydroxide as OH	0	mg/L	0.00	meq/L
Chloride	8,310	mg/L	234.52	meq/L
Sulfate	523	mg/L	10.89	meq/L
Calcium	1,470	mg/L	73.15	meq/L
Magnesium	677	mg/L	55.68	meq/L
Potassium	15	mg/L	0.37	meq/L
Sodium	3,050	mg/L	132.67	meq/L
ations			261.87	meq/L
nions			249.43	meq/L
Cation/Anion Difference			2 43	%

**Reference:** 

Reviewed by

## **Oil Conservation Division**

#### Case Narrative

On May 7, 1993, four water samples were submitted to Inter-Mountain Laboratories - Farmington for analysis. The samples were received cool and intact and were designated "Schmitz Evaporation". Analyses for Purgeable Aromatics were performed on the water samples as per the accompanying chain of custody form.

BTEX analysis was performed by EPA Method 5030, Purge and Trap, and EPA Method 602.2, Purgeable Aromatics, using an OI Analytical 4560 Purge and Trap and a Hewlett-Packard 5890 Gas Chromatograph, equipped with a photoionization detector. Target analytes were detected in three of the four samples at levels above the stated detection limits, as indicated on the report sheets.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analysis of the samples reported herein are found in <u>Standard Methods for Analysis of Water and Waste</u> <u>Water</u>, 1992 and <u>The Federal Register</u>, Vol. 49, NO. 209, October, 1984.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely, m In

Dr. Denise A. Bohemier, Organic Lab Supervisor

OCD2533

#### **PURGEABLE AROMATICS**

#### **Oil Conservation Division**

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition: Schmitz Evaporation 507931145 2533 Water Cool, HCI Intact

Report Date:	05/18/93
Date Sampled:	05/07/93
Date Received:	05/07/93
Date Analyzed:	05/14/93

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	24.1	1.00
Toluene	46.7	1.00
Chlorobenzene	ND	1.00
Ethylbenzene	2.53	1.00
m,p-Xylenes	28.3	2.00
o-Xylene	6.61	1.00
1,3-Dichlorobenzene	ND	1.00
1,4-Dichlorobenzene	ND	1.00
1,2-Dichlorobenzene	ND	1.00

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Toluene-d8	91	88 -110%
	Bromofluorobenzene	90	86 -115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Emin Ka

Analyst

Charles Ban

Review

#### Inter Mountain Laboratories, Inc.

2506 W. Main Street Farmington, New Mexico 87401

#### **PURGEABLE AROMATICS**

#### **Oil Conservation Division**

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

Schmitz Evaporation 507931115 2534 Water Cool, HCI Intact

Report Date:	05/17/93
Date Sampled:	05/07/93
Date Received:	05/07/93
Date Analyzed:	05/12/93

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	121	10.0
Toluene	139	10.0
Chlorobenzene	ND	10.0
Ethylbenzene	ND	10.0
m,p-Xylenes	33.6	20.0
o-Xylene	10.1	10.0
1,3-Dichlorobenzene	ND	10.0
1,4-Dichlorobenzene	ND	10.0
1,2-Dichlorobenzene	ND	10.0

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Toluene-d8	96	88 -110%
	Bromofluorobenzene	94	86 -115%

**Reference:** Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

**Comments:** 

Imin Au

Charles Ballel

Review

Analyst

#### **PURGEABLE AROMATICS**

#### **Oil Conservation Division**

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

Schmitz Evaporation 507931045 2535 Water Cool, HCI Intact

Report Date:	05/18/93
Date Sampled:	05/07/93
Date Received:	05/07/93
Date Analyzed:	05/14/93

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	155	10.0
Toluene	299	10.0
Chlorobenzene	ND	10.0
Ethylbenzene	17.6	10.0
m,p-Xylenes	161	20.0
o-Xylene	45.1	10.0
1,3-Dichlorobenzene	ND	10.0
1,4-Dichlorobenzene	ND	10.0
1,2-Dichlorobenzene	ND	10.0

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Toluene-d8	103	88 -110%
	Bromofluorobenzene	100	86 -115%

**Reference:** Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

mie Ra Analyst

Charles Belle

Review

#### **PURGEABLE AROMATICS**

#### **Oil Conservation Division**

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

Schmitz Evaporation 507931015 2536 Water Cool, HCI Intact

Report Date:	05/17/93
Date Sampled:	05/07/93
Date Received:	05/07/93
Date Analyzed:	05/12/93

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	ND	0.20
Chlorobenzene	ND	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	ND	0.40
o-Xylene	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Toluene-d8	98	88 -110%
	Bromofluorobenzene	94	86 -115%

Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984. **Reference:** 

Minipakin\_ Analyst

Charles Balle

Review

#### **PURGEABLE AROMATICS Quality Control Report**

#### **Method Blank Analysis**

Sample Matrix: Lab ID:

Water MB34101 Report Date: 05/17/93 Date Analyzed: 05/12/93

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	ND	0.20
Chlorobenzene	ND	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	ND	0.40
o-Xylene	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Toluene-d8	97	88 -110%
	Bromofluorobenzene	93	86 -115%

**Reference:** Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Analyst

Charles Ballet

Review

#### PURGEABLE AROMATICS Quality Control Report

#### **Method Blank Analysis**

Sample Matrix: Lab ID: Water MB34103 
 Report Date:
 05/17/93

 Date Analyzed:
 05/14/93

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	ND	0.20
Chlorobenzene	ND	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	ND	0.40
o-Xylene	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Toluene-d8	90	88 -110%
	Bromofluorobenzene	88	86 -115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Danie Rohu

Charles Ballula

Review

Analyst

## **Purgeable Aromatics**

#### **Duplicate Analysis**

Lab ID: Sample Matrix: Preservative: Condition:

2542Dup Water Cool, HCI Intact

Report Date:	05/17/93
Date Sampled:	05/10/93
Date Received:	05/10/93
Date Analyzed:	05/12/93

Target Analyte	Original Conc. (ug/L)	Duplicate Conc. (ug/L)	Acceptance Range (ug/L)
Benzene	1,520	1,370	1185 - 1710
Toluene	4,660	4,290	3670 - 5280
Chlorobenzene	ND	ND	NA
Ethylbenzene	180	199	124 - 256
m,p-Xylenes	3,540	3,260	NE
o-Xylene	925	845	NE
1,3- Dichlorobenzene	ND	ND	NA
1,4- Dichlorobenzene	ND	ND	NA
1,2- Dichlorobenzene	ND	ND	NA

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

NE - Duplicate acceptance range not established by the EPA.

	Surrogate	Percent Recovery	Acceptance Limits
<b>Quality Control:</b>	Toluene-d8	98	88 - 110%
	Bromofluorobenzene	94	86 - 115%

Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984. **Reference:** 

mie par

Analyst

Charles Ballik Review

## **Purgeable Aromatics**

#### **Duplicate Analysis**

Lab ID: Sample Matrix: Preservative: Condition:

2535Dup Water Cool, HCI Intact

Report Date:	05/17/93
Date Sampled:	05/07/93
Date Received:	05/07/93
Date Analyzed:	05/14/93

Target Analyte	Original Conc. (ug/L)	Duplicate Conc. (ug/L)	Acceptance Range (ug/L)
Benzene	155	149	124 - 180
Toluene	299	285	240 - 350
Chlorobenzene	ND	ND	NA
Ethylbenzene	17.6	17.5	10 - 26
m,p-Xylenes	161	147	NE
o-Xylene	45.1	41.9	NE
1,3- Dichlorobenzene	ND	ND	NA
1,4- Dichlorobenzene	ND	ND	NA
1,2- Dichlorobenzene	ND	ND	NA

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

NE - Duplicate acceptance range not established by the EPA.

	Surrogate	Percent Recovery	Acceptance Limits
<b>Quality Control:</b>	Toluene-d8	96	88 - 110%
	Bromofluorobenzene	94	86 - 115%

**Reference:** Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Analyst

Charles Balleh

Review

#### **Purgeable Aromatics**

#### **Matrix Spike Analysis**

Lab ID: Sample Matrix: Preservative: Condition:

2541Spk Water Cool, HCI Intact

Report Date: 05/17/93 Date Sampled: 05/10/93 Date Received: 05/10/93 Date Analyzed: 05/12/93

Target Analyte	Spike Added (ug/L)	Original Conc. (ug/L)	Spiked Sample Conc. (ug/L)	% Recovery	Acceptance Limits (%)
Benzene	10	1.20	11.1	99%	39 -150
Toluene	10	ND	9.69	97%	46 - 148
Chlorobenzene	10	ND	9.76	98%	55 - 135
Ethylbenzene	10	0.43	10.3	98%	32 - 160
m,p-Xylenes	20	ND	19.8	98%	NE
o-Xylene	10	0.20	10.0	98%	NE
1,3- Dichlorobenzene	10	ND	9.65	97%	50 - 141
1,4- Dichlorobenzene	10	ND	9.63	96%	42 - 143
1,2- Dichlorobenzene	10	ND	9.52	95%	37 - 154

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

NE - Spike acceptance range not established by the EPA.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Toluene-d8	100	88 - 110%
	Bromofluorobenzene	100	86 - 115%

Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984. **Reference:** 

Analyst

Charles Ballah Review

#### **Purgeable Aromatics**

#### Matrix Spike Analysis

Lab ID: 2546Spk Sample Matrix: Water Preservative: Cool, HCI Condition: Intact

Report Date: 05/17/93 Date Sampled: 05/10/93 Date Received: 05/10/93 Date Analyzed: 05/14/93

Target Analyte	Spike Added (ug/L)	Original Conc. (ug/L)	Spiked Sample Conc. (ug/L)	% Recovery	Acceptance Limits (%)
Benzene	10	0.57	10.5	99%	39 -150
Toluene	10	ND	10.0	100%	46 - 148
Chlorobenzene	10	ND	9.84	98%	55 - 135
Ethylbenzene	10	0.33	10.3	100%	32 - 160
m,p-Xylenes	20	ND	20.1	100%	NE
o-Xylene	10	ND	10.1	100%	NE
1,3- Dichlorobenzene	10	ND	10.1	101%	50 - 141
1,4- Dichlorobenzene	10	ND	10.0	100%	42 - 143
1,2- Dichlorobenzene	10	ND	10.1	101%	37 - 154

ND - Analyte not detected at the stated detection limit.

NA - Not applicable or not calculated.

NE - Spike acceptance range not established by the EPA.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Toluene-d8	103	88 - 110%
	Bromofluorobenzene	104	86 - 115%

**Reference:** Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Analyst

Charles Balleh Review

#### METHOD 8020 VOLATILE AROMATIC HYDROCARBONS

## **OCT 1 0 1991**

RECEIVED

OIL CONSERVATION DIV. SANTA FE

Client:OIL CONSERVProject Name:TNT DisposalSample ID:9109181900Sample Number:F7251 / C3946Sample Matrix:WaterPreservative:Cool, HgCl2Condition:Intact

OIL CONSERVATION DIVISION TNT Disposal (Pond 42, A&B) 9109181900 F7251 / C3946 Water Cool, HgCl2 Intact

Report Date:	10/04/91
Date Sampled:	09/18/91
Date Received:	09/20/91
Date Analyzed:	10/02/91

Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	164	10.0
Toluene	450	10.0
Ethylbenzene	28.4	10.0
p,m-Xylene	151	10.0
o-Xylene	58.0	10.0
Chlorobenzene	ND	10.0
1,3-Dichlorobenzene	ND	10.0
1,4-Dichlorobenzene	ND	10.0
1,2-Dichlorobenzene	ND	10.0

ND - Analyte not detected at stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Toluene-d8	99%	85-110%
	4-Bromofluorobenzene	94%	80-105%

 Reference:
 Method 5030, Purge and Trap

 Method 8020, Aromatic Volatile Organics
 SW-846, Test Methods for Evaluating Solid Wastes, United States Environmental

 Protection Agency, September 1986.

Charles Ballule Review

Inter-Mountain Laboratories, Inc.

3304 Longmire College Station, Texas 77845

#### CASE NARRATIVE

On 20 August, 1991, one water sample was received by Inter-Mountain Laboratories - College Station, Texas. The sample was identified as "TNT Disposal". Analysis was performed for parameters from Methods 8010 and 8020 as specified by the Chain of Custody forms accompanying the sample.

It is the policy of this laboratory to employ, whenever possible, analytical methods which have been approved by regulatory agencies. Extraction and analysis protocols are taken from "Test Methods for Evaluating Solid Waste", SW-846, USEPA, 1986, and "Chemical Analysis of Water and Waste", USEPA, 1978, and other appropriate references. All reports in this package indicate the analytical methods utilized and any observations made during the procedures.

Hewlett-Packard Gas Chromatographs were used for the analyses to determine the volatile. Results of the analyses indicated the presence of 8020 target compounds in sample.

Quality Control reports are included in the package for your use and can be identified by report title notation.

Wonde Mkg

Ulonda M. Rogers Project Manager

OCD3946

## RECEIVED

## OCT 1 0 1991

OIL CONSERVATION DIV. SANTA FE

#### METHOD 8010 HALOGENATED VOLATILE HYDROCARBONS

Client:

**OIL CONSERVATION DIVISION** 

Project Name: Sample ID: Sample Number: F7251 / C3946 Sample Matrix: Preservative: Condition:

TNT Disposal 9109181900 Water Cool, HgCl2 Intact

Report Date:	10/04/91
Date Sampled:	09/18/91
Date Received:	09/20/91
Date Analyzed:	10/02/91

Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Bromodichloromethane	ND	10.0
Bromoform	ND	10.0
Bromomethane	ND	10.0
Carbon tetrachloride	ND	10.0
Chlorobenzene	ND	10.0
Chloroethane	ND	10.0
2-Chloroethylvinyl ether	ND	10.0
Chioroform	ND	10.0
Chloromethane	ND	10.0
Dibromochloromethane	ND	10.0
1,2-Dichlorobenzene	ND	10.0
1,3-Dichlorobenzene	ND	10.0
1,4-Dichlorobenzene	ND	10.0
Dichlorodifluoromethane	ND	10.0
1,1-Dichloroethane	ND	10.0
1,2-Dichloroethane	ND	10.0
1,1-Dichloroethene	ND	10.0
trans-1,2-Dichloroethene	ND	10.0
1,2-Dichloropropane	ND	10.0
cis-1,3-Dichloropropene	ND	10.0
trans-1,3-Dichloropropene	ND	10.0
Methylene Chloride	ND	10.0
1,1,2,2-Tetrachioroethane	ND	10.0
Tetrachloroethene	ND	10.0
1,1,1-Trichloroethane	ND	10.0
1,1,2-Trichloroethane	ND	10.0
Trichloroethene	ND	10.0
Trichlorofluoromethane	ND	10.0
Vinyl chloride	ND	10.0

ND - Analyte not detected at stated detection limit.

#### **METHOD 8010** HALOGENATED VOLATILE HYDROCARBONS Page 2 - Quality Control

Client:	OIL CONSERVATION DIVISION		
Project Name:	TNT Disposal	Report Date:	10/04/91
Sample ID:	9109181900	Date Sampled:	09/18/91
Sample Number:	F7251 / C3946	Date Received:	09/20/91
Sample Matrix:	Water	Date Analyzed:	10/02/91
Preservative:	Cool, HgCl2		
Condition:	Intact		

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Toluene-d8	NA	85-110%
	4-Bromofluorobenzene	NA	80-105%

**Reference:** Method 5030, Purge and Trap Method 8010, Halogenated Volatile Organics SW-846, Test Methods for Evaluating Solid Wastes, United States Environmental Protection Agency, September 1986.

Comments: NA - Surrogates not added to reduce interferences.

UM degr Analyst

Charles Ballin Review
### **QUALITY CONTROL REPORT - METHOD BLANK** Method 8020 - VOLATILE AROMATIC HYDROCARBONS

Client:

**OIL CONSERVATION DIVISION** 

Project Name: Sample ID: Sample Number: MB10/03/91V1 Sample Matrix: Preservative: Condition:

**TNT** Disposal Method Blank Water Cool Intact

Report Date:	10/04/91
Date Sampled:	NA
Date Received:	NA
Date Analyzed:	10/03/91

Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
p,m-Xylene	ND	0.5
o-Xylene	ND	0.5
Chlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

ND - Analyte not detected at stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Toluene-d8	93%	85-110%
	4-Bromofluorobenzene	89%	80-105%

**Reference:** Method 5030, Purge and Trap Method 8020, Aromatic Volatile Organics SW-846, Test Methods for Evaluating Solid Wastes, United States Environmental Protection Agency, September 1986.

Comments:

UM Kg

Review

### **QUALITY CONTROL REPORT - METHOD BLANK** Method 8010 - HALOGENATED VOLATILE HYDROCARBONS

Client:

**OIL CONSERVATION DIVISION** 

Project Name: Sample ID: Sample Number: MB10/03/91V1 Sample Matrix: Preservative: Condition:

**TNT** Disposal Method Blank Water Cool Intact

Report Date:	10/04/91
Date Sampled:	NA
Date Received:	NA
Date Analyzed:	10/03/91

Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Bromodichloromethane	ND	0.5
Bromoform	ND	0.5
Bromomethane	ND	0.5
Carbon tetrachloride	0.9	0.5
Chlorobenzene	ND	0.5
Chloroethane	ND	0.5
2-Chloroethylvinyl ether	ND	0.5
Chloroform	ND	0.5
Chloromethane	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
Dichlorodifluoromethane	ND	0.5
1,1-Dichloroethane	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1-Dichloroethene	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
Methylene Chloride	4.6	0.5
1,1,2,2-Tetrachioroethane	ND	5.0
Tetrachloroethene	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Trichloroethene	ND	0.5
Trichlorofluoromethane	ND	0.5
Vinyl chloride	ND	0.5

ND - Analyte not detected at stated detection limit.

### **QUALITY CONTROL REPORT - METHOD BLANK** Method 8010 - HALOGENATED VOLATILE HYDROCARBONS Page 2 - Quality Control

Client:	OIL CONSERVATION DIVISION		
Project Name:	TNT Disposal	Report Date:	10/04/91
Sample ID:	Method Blank	Date Sampled:	NA
Sample Number:	MB10/03/91V1	Date Received:	NA
Sample Matrix:	Water	Date Analyzed:	10/03/91
Preservative:	Cool		
Condition:	Intact		

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Toluene-d8	93%	85-110%
	4-Bromofluorobenzene	89%	80-105%

- Method 5030, Purge and Trap **Reference:** Method 8010, Halogenated Volatile Organics SW-846, Test Methods for Evaluating Solid Wastes, United States Environmental Protection Agency, September 1986.
- Comments: Presence of Carbon tetrachloride and Methylene Chloride in blank may be traced to surrogate solvent.

umpo Analyst

Unho Balleh

Review

#### **QUALITY CONTROL REPORT - MATRIX DUPLICATE** Method 8020 - AROMATIC VOLATILE HYDROCARBONS

Sample Number: Sample Matrix: Preservative: Condition:

C3946 DUP Water Cool, HgCl2 Intact

Date Sampled: 09/18/91 Date Received: 09/20/91 Date Analyzed: 10/02/91

Analyte	Sample Result (ug/L)	Duplicate Result (ug/L)	Percent Difference	
Benzene	164	161	1.6%	
Toluene	450	373	18.7%	
Ethylbenzene	28.4	24.3	15.5%	
p,m - Xylene	134	118	12.1%	
o - Xylene	62.3	46.8	7.2%	
Chlorobenzene	ND	ND	NA	
1,3-Dichlorobenzene	ND	ND	NA	
1,4-Dichlorobenzene	ND	ND	NA	
1,2-Dichlorobenzene	ND	ND	NA	

ND - Analyte not detected at stated detection limit. NA - Not applicable

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Toluene-d8	95%	85-110%
	4-Bromofluorobenzene	91%	80-105%

**Reference:** Method 5030, Purge and Trap Method 8020, Aromatic Volatile Organics SW-846, Test Methods for Evaluating Solid Wastes, United States Environmental Protection Agency, September 1986.

Comments:

M M Kage

Charles Ballele Review

### **QUALITY CONTROL REPORT - MATRIX SPIKE** Method 8010 - HALOGENATED VOLATILE HYDROCARBONS

Sample Number:	C3783SPK
Sample Matrix:	Water
Preservative:	HCI, Cool
Condition:	Intact

Date Sampled:	09/05/91
Date Received:	09/07/91
Date Analyzed:	10/03/91

	Spike Added	Sample Result	Spike Result	Percent	Acceptance
Analyte	(ug/L)	(ug/L)	(ug/L)	Recovery	Limit
Carbon tetrachloride	5.0	ND	4.7	94%	43-143%
Chlorobenzene	5.0	ND	4.6	93%	38-150%
Chloroform	5.0	ND	5.3	107%	49-133%
Dibromochloromethane	5.0	ND	4.3	87%	24-191%
1,1-Dichloroethane	5.0	ND	4.9	98%	47-132%
1,1-Dichloroethene	5.0	ND	5.3	106%	28-167%
1,2-Dichloropropane	5.0	ND	5.3	106%	44-156%
Tetrachloroethene	5.0	ND	4.8	96%	26-162%
1,1,2-Trichloroethane	5.0	ND	5.3	107%	39-136%
Trichloroethene	5.0	ND	4.8	95%	35-146%
Trichlorofluoromethane	5.0	ND	5.0	100%	21-156%

ND - Analyte not detected at stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Toluene-d8	96%	85-110%
	4-Bromofluorobenzene	89%	80-105%

Method 5030, Purge and Trap **Reference:** Method 8010, Halogenated Volatile Organics SW-846, Test Methods for Evaluating Solid Wastes, United States Environmental Protection Agency, September 1986.

Comments:

<u>LM Kog</u> Analyst

Review



A THE STATE	STAT	TE OF NEW MEXICO
		D NATURAL RESOURCE PARTMENT
	OIL CC	DNSERVATION DIVISION
1013 01	ANALYS	IS REQUEST FORM
Contract Lab T.M.	14	Contract No
OCD Sample No. 9/	08142025	
Collection Date Collection Tir	ne Collected byPerson/Agency	
910814 2024	Soyer aca	
SITEINFORMATION	·	
Sample location	TATT DISPOSA	
Collection Site Description	NEST MONITOR WE	211. Pond 2
Sample First	on hand pump Fo	Dewatering Township, Range, Section, Tract:
monitor	well	
SEND ENVIRONMENT	AL BUREAU	SAMPLE FIELD TREATMENT - Check proper boxes
REPORT PO Box 2088		
Santa Fe, NM 8	7504-2088	No. of samples submitted: $\prec$
SAMPLING CONDITIONS	Waterlevel	C NF: Whole sample (Non-filtered)
	Diochergo	PF: Pre-filtered w/45 Amembrane filter
Dipped Tap		
 pH(00400)	_ Sample type	/ 🖸 NA: No acid added 🛛 🗆 A: 5ml conc. HNO <sub>3</sub> added
	Conductivity (Uncorrected)	A: HCL A: 4mi fuming HNO <sub>3</sub> added
Water Temp. (00010)	Conductivity at 25° C	
	mho بر	
	1770-17	

## LAB ANALYSIS REQUESTED:

ITEM	DESC	METHOD	ПЕМ	DESC	METHOD	ПЕМ	DESC	METHOD
<b>b</b> 001 002 003 004 <b>b</b> 006 006 007 008 009 010 011 012	VOA VOH VOH <del>SUITE-</del> SUITE HEADSPACE PAH PAH PCB PCB PCB PHENOL	8020 602 8010 601 8010-8020 601-602 8100 610 8080 608 8040	013 014 015 016 017 018 019 020 022 023 024 025	PHENOL VOC SVOC SVOC VOC SVOC O&G AS Ba Cr Cr6	604 8240 624 8250 625 8260 8270 9070 7060 7060 7190 7198	026 027 028 031 032 032 034 034 035 036 036 037 038	Cd Pb Hg(L) Se ICAP CATIONS/ANIONS N SUITE NITRATE NITRATE NITRITE AMMONIA TKN OTHER	7130 7421 7470 7740 6010

2506 W. Main Street Farmington, New Mexico 87401

CLIENT: ID: SITE: LAB NO:	NMOCD TNT Disposal Monitor well pond 1 F6948	DATE REPORTED: DATE RECEIVED: DATE COLLECTED:	09/17/91 08/16/91 08/14/91
	Lab pH (s.u.) Lab conductivity, umhos/cm Lab resistivity, ohm-m Total dissolved solids (180 Total dissolved solids (ca Total alkalinity as CaCO3, Total hardness as CaCO3, mo Sodium absorption ratio Fluoride, mg/L	7.31 24400 0.41 0), mg/L. 17600 lc), mg/L. 15700 mg/L. 410 g/L. 6470 17.6	
	Bicarbonate as HC03 Carbonate as C03 Chloride Sulfate Calcium Magnesium Potassium Sodium. Major cations Major anions Cation/anion difference	mg/L         meq/I           500         8.2           0         0           7090         200           3080         64.2           1040         52           941         77.4           10.4         0.27           3260         142	2 ) )

<u>Xanda (AJ)</u> Wanda Orso Water Lab Manager

# RECEIVED

## SEP 2 6 1991

OIL CONSERVATION DIV. SANTA FE



2506 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

#### VOLATILE AROMATIC HYDROCARBONS

Client: NMOCI	)	Report Date:	09-26-91
Sample ID:	TNT Monitor	Date Sampled:	08-14-91
Laboratory Number	r: 6948	Date Received:	08-16-91
Analysis Requeste	ed: 8020	Date Analyzed:	08-28-91
Sample Matrix:	Water	Preservative:	Cool & HgCl2
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.5
Toluene	ND	0.5
Chlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
p,m-Xylene	ND	0.5
o-Xylene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

SURROGATE	RECOVERIES:	Parameter	Percent	Recovery
		Bromofluorobenzene	98	8.7 %

Method: Method 8020, Aromatic Volatile Organics, SW-846, USEPA, (Sept. 1986). ND - Parameter not detected at the stated detection limit.

Comments:

Tony Tristano Analyst

RECEIVED

SEP 2 6 1991

OIL CONSERVATION DIV. SANTA FE



	STA	TE OF NEW MEXICO
	ERGY, MINERALS AN	
1011 - 605		
	ANALYS	is request form
Contract Lab JML		Contract No
OCD Sample No. 9 J C	0814 2011	
Collection Date Collection Time	e Collected byPerson/Agency	
91 08/14 2011	BOYER LOCA	
SITE INFORMATION		
Sample location TNT	Disposel	<b>,</b>
Collection Site Description	Jain Pond pond	# <u>2</u>
Sample Fire	m South Center Pf	Township Range Section Tract:
Others d	ipped from pont	<u>celeonpipe</u>     +   +   +
	AL BUREAU	
FINAL NM OIL CONSEI	RVATION DIVISION	SAMPLE FIELD TREATMENT — Check proper boxes
TO Santa Fe, NM 87	7504-2088	No. of samples submitted:
SAMPLING CONDITIONS	Waterlevel	3       ☑ NF: Whole sample (Non-filtered)         □       F: Filtered in field with 0.45 µmembrane filter
□Bailed □Pump ⊠Dipped ⊠tJap VorA	Discharge	PF: Pre-filtered w/45  membrane filter
pH(00400) 9 Strip	Sample type (srals	/ X NA: No acid added / X A: 5ml conc. HNO, added 4.6
Water Temp. (00010)	Conductivity (Uncorrected)	$\square A: 2mi H_sO_A added / \square H_o C_a$
248	Conductivity at 25° C	FIELD COMMENTS:
	· .	

## LAB ANALYSIS REQUESTED:

· • •

I.

1

ITEM	DESC	METHOD	ITEM	DESC	METHOD	ITEM	DESC	METHOD
001	VOA	8020	013	PHENOL	604	026	Cd	7130
002	VOA	602	014	VOC	8240	027	Pb	7421
003	VOH	8010	015	VOC	624	24-028	Hg(L)	7470
004	VOH	601	016	SVOC	8250	125 031	Se	7740
<b>pst</b> 005	SUITE	8010-8020	<b>□</b> 017	SVOC	625	<b>1</b> 032	ICAP	6010
006	SUITE	601-602	018	VOC	8260	12.033	CATIONS/ANIONS	
007	HEADSPACE		019	SVOC	8270	034	N SUITE	
008	PAH	8100	□ 020	08G	9070	□ 035	NITRATE	
009	PAH	610	52 022	AS	7060	036	NITRITE	
010	PCB	8080	023	Ba	7080	037	AMMONIA	
011	PCB	608	024	Cr	7190	038	TKN	
012	PHENOL	8040	025	Cr6	7198		OTHER	

.

2506 W. Main Street Farmington, New Mexico 87401

CLIENT:	NMOCD 9108142011	DATE REPO	RTED:	09/17/91
SITE: LAB NO:	TNT Main Pond $(p_{en}Q \neq 2)$ F6947 $A73$	DATE RECE DATE COLLE	IVED: CTED:	08/16/91 08/14/91
	Lab pH (s.u.) Lab conductivity, umhos/cm. Lab resistivity, ohm-m Total dissolved solids (180 Total dissolved solids (cal Total alkalinity as CaCO3, Total hardness as CaCO3, mo Sodium absorption ratio Fluoride, mg/L	)), mg/L. .c), mg/L. mg/L g/L	8.44 31300 0.319 19700 16500 1710 238 168 1.21	
	Bicarbonate as HC03 Carbonate as C03 Chloride Sulfate Calcium Magnesium Potassium Sodium Major cations Major anions Cation/anion difference	mg/L 1980 54.9 8580 259 41.4 32.7 567 5970	meq/L 32.5 1.83 242 5.4 2.07 2.69 14.5 260 279 282 0.5	8

## RECEIVED

## SEP 2 6 1991

OIL CONSERVATION DIV. SANTA FE . Inter Mountain Laboratories, Inc.

2506 W. Main Street Farmington, New Mexico 87401

## RECEIVED

## SEP 2 6 1991

## OIL CONSERVATION DIV.

SANTA FE

CLIENT:	NMOCD	DATE	REPORTED:	09/17/91
SITE: LAB NO:	TNT Main Pond (Ponk F6947	Hare DATE	RECEIVED: COLLECTED:	08/16/91 08/14/91
Trace met	tals by AA (dissolved	d concentratio Analytical	on), mg/L Detection	h
		Result:	Limit:	•

	Result:	
Arsenic (As)	ND	<0.005
Cadmium (Cd)	ND	<0.002
Mercury (Hg)	ND	<0.001
Lead (Pb)	ND	<0.02
Selenium (Se)	ND	<0.005
Lead (Pb) Selenium (Se)	ND ND ND	<0.001 <0.02 <0.005

Trace metals by ICAP (disso]	lved concentration	n), mg/L
	Analytical	Detection
	Result:	Limit:
Silver (Ag)	ND	<0.01
Aluminum (Al)	0.1	<0.1
Boron (B)	3.26	<0.01
Barium (Ba)	1.7	<0.5
Beryllium (Be)	ND	<0.005
Calcium (Ca)	35.5	<0.5
Cobalt (Co)	ND	<0.02
Chromium (Cr)	ND	<0.02
Copper (Cu)	ND	<0.01
Iron (Fe)	1.21	<0.05
Potassium (K)	595.8	<0.1
Manganese (Mn)	0.07	<0.02
Molybdenum (Mo)	ND	<0.02
Magnesium (Mg)	36.7	<0.5
Sodium (Na)	6667	<0.5
Nickel (Ni)	ND	<0.01
Antimony (Sb)	ND	<0.05
Silicon (Si)	15.1	<0.05
Thallium (T1)	ND	<0.1
Vanadium (V)	ND	<0.05
Zinc (Zn)	ND	<0.01

ND - Analyte "not detected" at the stated detection limit.

Wanda Orso Water Lab Manager FROM: FARMINGTON IML

inter-Mountain Laboratories, Inc.

2506 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

### VOLATILE AROMATIC HYDROCARBONS

Client: NMOCD		Report Date:	09-26-91
Sample ID:	TNT Main Pond	Date Sampled:	08-14-91
Laboratory Number:	6947 (Pondez)	Date Received:	08-16-91
Analysis Requested:	8020	Date Analyzed:	09-11-91
Sample Matrix:	Water	Preservative:	Cool & HgCl2
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	72.0	0.5
Toluene	81.9	0.5
Chlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
p,m-Xylene	63.7	0.5
o-Xylene	26.0	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

SURROGATE	RECOVERIES:	Parameter	Percent	Recovery
		4-Bromofluorobenzene	90	),2 %

Method: Method 8020, Aromatic Volatile Organics, SW-846, USEPA, (Sept. 1986). ND - Parameter not detected at the stated detection limit.

Comments:

Tistano Analyst



2506 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

#### Case Narrative

On August 16, 1991 a sample set consisting of four samples was received by Inter-Mountain Laboratories - Farmington, NM. Enclosed is a copy of the chain of custody indicating the requested analysis. The turn around time for these samples is 15 days and is reflected in the analytical price. Since the holding time for TNT Main Pond expired while the sample was in our custody there will be no charge for the analysis for the re-sampled sample which is identified as TNT Disposal.

It is the policy of this laboratory to employ, whenever possible, analytical methods which have been approved by regulatory agencies. The methods which we use are referenced in SW-846, "Test Methods for Evaluating Solid Waste", USEPA, 1986; "Chemical Analysis of Water and Waste", USEPA, 1978; and other references as applicable. All reports in this package have the analytical methods and the references footnoted.

A Hewlett-Packard Gas Chromatograph was used for the analysis which determined the presence of target 8020 compounds in samples Flora Vista Trench, Giant Seep, and TNT Disposal Pond.

Quality Assurance reports have been included in this package. These reports can be identified by the title of the report.

Please feel free to call if you have any questions.

Tony Tristano

Tony Tristano Senior Analytical Chemist

							)			4			<u> </u>				<u> </u>	/			
•		ţ					1. Theyon Suil					·					Date	Date Time	Date Time		04016
	\$ / PARAMETERS	/Remar	1475	×			ALSON							/	/		127 08/16/9				04 Longmire Drive silege Station, TX 77845 dephone (409) 774-4999
•	ANALYSES	20/0/22	12 mg	X	X X	X	X						/						(Signature)		256 33 n, TX 77845 Co 39) 776-8945 Te
ECORD		918	No. of Contain	<del>4</del>	G#	6	4				4/	4					5 by-(Gignature	d by: (Signature	d by laboratory:	, Inc.	Route 3, Box College Statio Telephone (4(
OF CUSTODY RE	Location	ody Tape No.	Matrix	water	water	water	water	-			19/10				· · · · · · · · · · · · · · · · · · ·		Brite / Time Received	/ Date Time Received	Date Time Receive	intain Laboratories	<ul> <li>Technology Blvd. Suite B Bozeman, Montana 59715</li> <li>737 Telephone (406) 586-8450</li> </ul>
CHAIN	Project	Chain of Cust	Lab Number	6947	6948	6949	0369		IVFE					•		•	<b>~</b>	09/1.	ter an	Inter-Mou	X 2506 West Main Stree Farmington, NM 87401 Telephone (505) 326-4
:		over	Time	1100 \$	2025	59112	51550											La v			s Circle oming 82716 (307) 682-8945
•	SC B	$\mathbb{X}$	Date	×91081	18015	491281	51081									2 	e) Rout	9	(e		1714 Phillip Gillette, Wy Telephone (
Inter-Mountain Laboratories, Inc.	Client/Project Name	Sampler: (Signature)	Sample No/ Identification	TNT Mam Por	TNT MONITOR	Plone Vista Then	Citint Seep							•			Relinquished by Signatur	Reitinguiehad by: (Signatur	Reilnquished by: (Signatur		☐ 1633 Terra Avenue Sheridan, Wyorning 82801 Telephone (307) 672-8945

1

Z

	SCIENTIFIC LABORA RGANIC ANALYSIS Organic Section - 1	ATORY DIV REQUEST F Phone: 841-2570	SION	754 ωρ4 - 88.1496.c
REPORT TO:	DAVID BOYER	•	S.L.D. No. OR-	
-	N.M. OIL CONSERVATION DIV	ISION	DATE REC.	9/15/88
-	P.O. Box 2088		PRIORITY	311
	Santa Fe, NM 87504-2088		PHONE(S):	827-5812
COLLECTION CIT	r: Lendrith	; Co	DUNTY: RO	Arrilas
COLLECTION DA	TE/TIME CODE: (Year-Month-Day-Hour-Mir	sute) 181810	191121	165101
LOCATION CODE	: (Township-Range-Section-Tracts) 12151	N+0131W	+ (218+31	/(10N06E24342)
USER CODE:	812 12 31 5 SUBMITTER:	avid Bover		CODE: 2 6 0
SAMPLE TYPE:	WATER 1/1, SOIL 1, FOOD 1, OTHER	ł:		and the start
This form accompa Samples were pres NP: P-Ice P-AA P-HCl ANALYSES BEQU required. Wheneves [] (753) Aliphati	anies Septum Vials, Glass Jug erved as follows: No Preservation; Sample stored at room terr Sample stored in an ice bath (Not Frozen). Sample Preserved with Ascorbic Acid to rer Sample Preserved with Hydrochloric Acid (2 <u>DESTED</u> : Please check the appropriate box(es r possible list specific compounds suspected of <u>PURGEABLE SCREENS</u> c Headspace (1-5 Carbons) c & Halogenated Purgeables	rs, and/or nperature. nove chlorine residu 2 drops/40 ml) b) below to indicate or required. <u>EXT</u> (751) 4 (755) H	NOV 1 al. NOV 1 CI CONSERV CI CONSERV CI CONSERV Aliphatic SCR Aliphatic Hydroca Base/Neutral Extr	7 1989 ATION DIVISION TAFE alytical screens REENS rbons ractables
(765) Mass S	pectrometer Purgeables	(758) H	Ierbicides, Chlorop	phenoxy acid
(774) SDWA (775) SDWA Other Remarks:	VOC's I (8 Regulated +) VOC's II (EDB & DBCP) Specific Compounds or Classes	(760) ( (761) ( (767) F (767) F (764) F (762) S	Organochlorine Pe Organophosphate D Polychlorinated Bi Polynuclear Aroma DWA Pesticides	sticides Pesticides phenyls (PCB's) atic Hydrocarbons & Herbicides
FIELD DATA: pH=; Con Dissolved Oxygen= Depth to water _ Sampling Location, 	ductivity= <u>14</u> Sofumho/cm at <u>16.1</u> °C; 6 mg/l; Alkalinity=mg/l; Flow ft.; Depth of wellft.; Perforati Methods and Remarks (i.e. odors, etc.) A1502500 pmp	Chlorine Residual=_ Rate ion Interval - ANNii	mg/l ft.; Casing	
I certify that the activities.(signature	results in this block accurately reflect the collector):	results of my field Method o	analyses, observa of Shipment to t	tions and he Lab: <u>State (a)</u>
CHAIN OF CUST	OD Y			
I certify that this	sample was transferred from		to	
at (location)		on/		: and that
the statements in Signatures'	this block are correct. Evidentiary Seals: No	ot Sealed OR	Seals Intact: Yes	□ No □
For OCD 1	use: Date owner notified:	12/2/88 P	hone or Le	tter? Initials

ANALYSES PERFORMED	•	LAB. No.: OR- 1496	
THIS PAG	E FOR LABOI	LATORY RESUS ONLY	· ·
This sample was tested using the analytical scree	ning method(s) <sup>.</sup>	checked below:	•
PURGEABLE SCREENS         (753)       Aliphatic Headspace (1-5 Carbons)         (754)       Aromatic & Halogenated Purgeables         (765)       Mass Spectrometer Purgeables         (766)       Trihalomethanes         (774)       SDWA VOC's I (8 Regulated +)         (775)       SDWA VOC's II (EDB & DBCP)         Other       Specific Compounds or Classes		EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triasines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (761) Organophosphate Pesticides (762) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides	
_ <u>AN</u>	ALYTICA	L RESULTS	
· COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. IPPBI
annalle pyrallines	10.12.		
halog mall & pung aller	Nell.		
	<b>∤────┤</b> .		
	<b> </b>		
•	\$		
	<b>!</b>		
	<b>II</b>	l	
• DETECTION LIMIT • 🗡	12.5 11	+ DETECTION LIMIT + $T$	
ABBREVIATIONS USED: N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [ RESULTS IN BRACKETS ] ARE UNCONE	THE STATED THE STATED FIRMED AND/C	DETECTION LIMIT DETECTION LIMIT (NOT CONFIRMED) DR WITH APPROXIMATE QUANTITATION	
LABORATORY REMARKS:			
		······································	
CERTIFICAT	TE OF ANALY	TICAL PERSONNEL	
Seal(s) Not Sealed $\square$ Intact: Yes $\square$ No $\square$ . So I certify that I followed standard laboratory procedure that the statements on this page accurately reflect to Date(s) of analysis: $\frac{g/l_{\theta}}{88}$ . Analyst's signals	Seal(s) broken b res on handling he analytical re gnature:	by: <u>not pealed</u> date: and analysis of this sample unless otherwise noted sults for this sample. Many (- Clen	i and
I certify that I have reviewed and concur, with the	analytical result	s for this sample and with the statements in this	block.
Reviewers signature: KM kyphille		- -	
7			

ļ

| . .

	New Mexico Hea SCIENTIFIC LAE 700 Camino de S Albuquerque, NN	Ith and Engement BORATORY alud NE M 87106 (505) 841-2	Department N 2555	WNN	GENEF	RAL WATER NITROGEN	CHEMISTRY ANALYSIS	
DATE RECEIVED 9	15881	"uc 3689	USER CODE 🗌 59300	59600		82235		
		SITE INFORM- ► ATION	Sample location	Dispr	yol p	onDy j	0,22 Aur ly	Junt
Collected by - Person/A	gency	/0CD		<u> </u>	N-T	Lind	21 X/4	
SEND IN FINAL REPORT CO Attn: Phon	ENVIRONMENT MM OIL CONS State Land Santa Fe, F David Boy Me: 827-58	TAL BUREAU SERVATION DIV Office Bldg NM 87504-208 Ver	/ISION • PO Box 2088 8	OL	NOV 22	1988	N N D3W, D8	.31
SAMPLING CO	NDITIONS						·	
Bailed	Pump Tap	Water level		Discharge		Sample	type.	
pH (00400)		Conductivity (Unco	rrected) - B∂∂) µmho	Water Temp. (00	010) 16.5	°C Conduc	ctivity at 25°C (00094	) µmho
No. of samples submitted	/ ∠X NF d added □ C ESULTS from	Hole sample (Non-filtered)	□ F: Filtered in 0.45 μmer	field with nbrane filter	] <b>A:</b> 2 ml H <sub>3</sub> NO <sub>3</sub> added	₂SO₄/Ladde □A: 4m	d 1 fuming HNO <sub>3</sub>	added
NA Conductivity (C 25°C (00095)	Corrected)	28824 ,	$\frac{\text{Units Date analyzed}}{\text{Umbo } - \frac{9/19}{2}$	From A	<u> </u> <i>≨</i> , NA Sa	ample:	Date <u>Analyzed</u>	
□ Total non-filtera residue (suspe (00530)	ble nded) pH	%.30	mg/l l  <del>  [ ]</del>	Calciu R Potass Magnes Sodium	um sium nC ponate	<u>60</u> mg <u>880</u> mg <u>66.5</u> mg <u>380</u> mg <u>1536</u> mg	11 10/12 11 10/12 11 10/12 11 10/12 11 10/12	
A-H₂SO₄ Nitrate-N + , Ni total (00630) Ammonia-N tot Total Kjeldahl-N () Chemical oxyg	trate-N tal (00610) N		mg/l mg/l mg/l	= 27 Chlori = 2 Sulfat - 2 Total - 2 C	ide te Solids <u>2</u>	<u>9500</u> mg <u>960</u> mg 0714 mg 0714 mg 19.60mg	1/1 <u>9/20</u> 1/1 <u>9/20</u> 1/1 <u>9/20</u> 11/7 109/22	
<ul> <li>Total organic ca ( )</li> <li>Other:</li> <li>Other:</li> </ul>	arbon	······································	mg/l	Analyst	on/Anion	Date Reported	Reviewed by	2
Laboratory remark	10 Jab	** Repart	ch, 50,	TAS by	y phone	· by 10	14 X (18	
FOR OCD USE	E Date (	Wner Notifie	ed 12/2/28	Phone or	Letter?_		Initals	K

ANALYTE	CATIONS  E MEQ.	PPM	DET. LIMIT	ANALYTE	ANIONS MEQ.	PPM	DET. LIMIT
Ca Mg Na K	2.99 5.46 277.51 22.51	60.00 66.50 6380.00 880.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	25.17 20.00 267.98	1536.00 960.00 9500.00	<1.0 <10.0 <5.0
Mn Fe	0.00 0.00	0.00 0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	308.47	7386.50			313.16	11996.00	
Total I Ion Bal	Dissolved Lance =	Solids= 98.51%	20714	WC Date c	No. No.	= 8803689	

New I SCIE 700 C Albuc	Mexico Health and E NTIFIC LABORATOI Jamino de Salud NE Juerque, NM 87106	Environment Department RYSION		HEAVY	<b>ETAL</b>	<b>ANALYS</b> 05)841-255	SIS FORM
Date Received COLLECTION	911588 I DATE & TIM	$\begin{array}{c} ab\\ io. ICAP 424\\ \hline \\ \hline$	User Code	☐ 8223 C	5 X O	ther: SITE D	ESCRIPTION
COLLECTED B	Y: Be	up					<u>FRA</u>
то:		V		0	WNER: $\underline{\mathcal{T}}$	N-T,	tindritty
ENVIRON NM OIL State L SANTA F ATTN:	MENTAL BUF CONSERVATI and Office E, NM 87	REAU CON DIVISION Bldg., PO B 7504-2088	ox 2088	S C To	ITE LOCAT ounty: $R$ wnship, Range, $\underline{D}, \underline{D}, W + C$	ION: 100 A2 Section, Trad 13440	<u>7, l-2</u> ct: (10N06E24342) 3+3 1/ 1-1
TELEPHO	NE: 827-58	342	STATION	/ WELL CO	DE:		
	NDTUTONC -	LATITUDE,	LONGIT				
Baile	d DITIONS:	np Water L	evel:	Dischar	ge:	Sampl	e Type:
Dippe	d [] Tar	b ty(Uncorr.)	Water	 Temp. (000	$\frac{10}{10}$	<u>ductivi</u>	ty at 25°C
pii(00400)	, conduct v		//		(00	094)	
FIELD COMME		7,800 jumho		b · S · C	TAPUL	0	µmho
		mpee give		· l-Al-	Der	×	
SAMPLE FIEL Check prop	D TREATMEN	۳T		LAB ANALY	SIS REQUE	STED:	
<b>WPN:</b> W Preserved Non-Filter	later w/HNO <sub>3</sub> red 1	<b>WPF:</b> Wate Preserved w/H Filtered	r NO <sub>3</sub>	Mark bo is requ	Scan x next to ired.	metal	if AA
		ANALYTICA	L RESU	ILTS (M	G/L)		
ELEMENT Aluminum Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel	$   \frac{ CAP VALUI}{0.2} \\   \frac{0.7}{0.7} \\   \frac{0.1}{0.1} \\   \frac{0.1}{0.2} \\   \frac{0.1}{0.2} \\   \frac{0.05}{0.05} \\   \frac{0.05}{0.05} \\   \frac{0.1}{0.2} \\   \frac{0.1}{0.2} \\   \frac{0.05}{0.1} \\   \frac{0.1}{0.1} \\$			ELEMENT Silicon Silver Strontiu Tin Vanadium Zinc Arsenic Selenium Mercury	ICAP V       2.1       m       8.1	ALUE <0.  <0.  <0.  <0.  <0.	
LAB COMMENT							yuss
For OCD Use Date Owner Phone o	Notified: Notified: or (Letter? Initials:	12/2/88 IC	CAP Anal ate Anal	yst yzed/0	1 <u>-</u> Revi 12/88 Date	ewer Reveiv	inghilly red 10/18/88

"75"	Albuquerque, N	ORATORY DIVION STATE OF NEW ME to de Salud NE IM 87106 841-2570
EPORT TO:	David Boyer	S.L.D. No. OR- 1704
	N.M. Oil Conservation Divis	sion DATE REC. 10-30-87
1704-C	P. O. Box 2088	
11-	Santa Fe, N.M. 87504-2088	PRIORITY
IONE(S):	327-5812	USER CODE: $ 3 ^2  2 ^3  5 $
IBMITTER:	David Boyer	CODE: 12 16 10 1
MPLE COLLE	CTION CODE: (YYMMDDHHMMIII)   /	\$171/1012191/1213101 15B1
MPLE TYPE:	WATER SI SOIL FOOD	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i$
UNTY RID	ARRIBA CITY LTA	$\mathcal{L}\mathcal{F}(\mathcal{T}\mathcal{H})$ CODE:
CATION COD	(Townshin-Range-Section-Tracts)	
NALVER DEC	TE Township Trange-Sections Tracts	$\frac{1}{1}$
quired. Whenev	er possible list specific compounds suspec	cted or required.
	PURGEABLE SCREENS	EXTRACTABLE SCREENS
(753) Alipha (754) Aroma	tic Purgeables (1-3 Garbons) tic & Halogenated Purgeables	(751) Aliphatic Hydrocarbons
] (765) Mass	Spectrometer Purgeables	(755) Base/Neutral Extractables
] (766) Trihale	omethanes	(758) Herbicides, Chlorophenoxy acid
Other	Specific Compounds or Classes	(759) Herbicides, Triazines
- <u> </u>		(760) Organochlorine Pesticides
-l	· · · · · · · · · · · · · · · · · · ·	(767) Polychlorinated Biphenyls (PCB's)
		(764) Polynuclear Aromatic Hydrocarbons
]		(762) SDWA Pesticides & Herbicides
emarks:	TNT EVAPORAT	TION PIT
HELD DATA: H=; Consistent of the second	onductivity= $2155$ umbo/cm at $12.5$ =mg/l; Alkalinity=mg/l; ft.; Depth of wellft.; Pe on, Methods and Remarks (i.e. odors, etc SEOCNERN	C; Chlorine Residual=mg/l Flow Rate erforation Intervalft.; Casing: AAIN PIT (PonQ HeI) PJR
certify that th tivities.(signatur his form accom umples were pr ] NP: ] P-Ice ] P-Ice ] P-Na S 0 <b>HAIN OF</b> <sup>2</sup> CU:	ne results in this block accurately reflect re collector):	the results of my field analyses, observations and Method of Shipment to the Lab: <u>How Deamon</u> ss Jugs, and/or m temperature. rozen). fate to remove chlorine residual.
certify that th (location)	is sample was transferred from	to
e statements i	n this block are correct. Evidentiary Sea	uls: Not Sealed Seals Intact: Yes
gnatures		

### ANALYSES PERFORMED

LAB. No .: OR- / 7/14

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	
ANALYTIC	AL RESULTS	
COMPOUND(S) DETECTED CONC.	COMPOUND(S) DETECTED	CONC.

	[PPB]		[PPB]
Asomatic sugarables			
kenaknd	222		
tolucae	375		
ethylfenaene	T.R.		
1- Aulest	28		
Im- Inglene	100		
0- Juline	41		
Sacetonal +	1425		
halogenated surgeobles	N.D.		
	· · ·		
· DETECTION LIMIT · X	25-48/2	+ DETECTION LIMIT +	700 47/2

ABBREVIATIONS USED:

- N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
- T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
- [ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS:

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No Z. Seal(s) broken by: Not Nealed	date:
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless	otherwise noted and
that the statements on this page accurately reflect the analytical results for this sample.	
Date(s) of analysis: 11/2/87 Analyst's signature:	
I certify that I have reviewed and concur with the analytical results for this sample and with the sta	tements in this block.
Reviewers signature: Kmeyernem	

		859-	whn	
New Mexic SCIENTIFI 700 Camino Albuquerqu	o Health and Environment Department C LABORATORY o de Salud NE Je, NM 87106 — (505) 841-2555	(	GENERAL WA	ATER CHEMISTRY GEN ANALYSIS
RECEIVED 11 6 87	NO WC - SOY3 USER 55	9300 🗆 59600 🕅	OTHER: 8223	35
Collection DATE	SITE Sample location	TNT EVAP	DRATION	PIT
Collected by - Person/Agency	Collection site descr	Iption SE CORNE	r of o	
OLSON/ BA	ILEY /OCD			
ENVIRON SEND NM OIL TINAL State L Santa F Attn:David	MENTAL BUREAU CONSERVATION DIVISION and Office Bldg, PO Box 2 e, NM 87504-2088 Boyer	088		
Phone: 827	7-5812		Station/ well code	
SAMPLING CONDITION	S		Owner	
□ Bailed □ Pump	Water level	Discharge	S	Sample type (-, Rab
pH (00400)	Conductivity (Uncorrected)	Water Temp. (00010)	2.5 °C	Conductivity at 25°C (00094) µmhc
Field comments		· · · · · · · · · · · · · · · · · · ·		
AMPLE FIELD TREAT	NENT — Check proper boxes			
No. of samples	NF: Whole sample X F: Filtere	d in field with <b>A:</b>	2 ml H₂SO≱/L	added
submitted /	(Non-filtered) 0.45 μ	membrane filter		
X NA: No acid added	☐ Other-specify: ☐A:	5ml conc. HNO <sub>3</sub> a	udded □A:	4ml fuming HNO <sub>3</sub> addec
NALYTICAL RESULTS	from SAMPLES Units Date anal	vzed		
Conductivity (Corrected) 25°C (00095)	23110 umbo 12/2	From <u>F</u> ,	NA Sample: Hd 650	Date Analyzed
Total non-filterable		Z Calcium	19.6	mg/1_12/15
residue (suspended) (00530)		D Potassium	741	_mg/1_12/21
Dother: Lab pt	7.66 12/05	Magnesium	39	mg/1
□ Other: /		Sodium	4830	mg/12/2/
A-H-SO		X Bicarbonat	e <u>368</u>	$mg/1_{12/15}$
□ Nitrate-N + , Nitrate-N		Chloride _	7050	
total (00630)	mg/l	Sulfate	1285	mg/1 <u>12/16</u>
Total Kjeldahl-N	mg/i		ds <u>1917</u>	- mg/1 12/15
( )	mg/l	-   X _ KR m	( <u>AS: 70.</u>	<u>0</u> mg/ <u>L</u>
demand (00340)	mg/l	LJ		·····
( ) □ Other:	mg/l	- 🛛 Cation/2	Anion Bala	ance
□ Other:		Analyst	Date Rep	orted Reviewed by
Laboratory remarks		<b>I</b>		
FOR OCD HEE Des	to Owner Notified 3/4	Phone or Let	ter? Don son	n Initals (7)

ANALYTI	CATIONS  E MEQ.	PPM	DET. LIMIT	ANALYTE	ANIONS  E MEQ.	PPM	DET. LIMIT
Ca Mg Na K	9.78 3.20 210.09 18.95	196.00 39.00 4830.00 741.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	22.42 26.77 255.29	1368.00 1285.00 9050.00	<1.0 <10.0 <5.0
Mn Fe	0.00 0.00	0.00 0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	242.03	5806.00			304.48	11703.00	
Total I Ion Bai	Dissolved lance =	Solids= 79.49%	19170	W( Date o	C No. out/By	= 8705043	

Nev SCI 700 Albu	v Mexico Health a ENTIFIC LABOR Camino de Saluc uquerque, NM 87	ATORY DIVISION NE 106	nt Department ON	-	HEAV	Y Telepho	TAL A one: (50	<b>NALY</b> 5)841-25	SIS FORM
Date	11. 7	Lab	0 9 10	User		<u></u>			
Received COLLECTION		<u>INO. LC</u> PTME: IN	$\frac{p}{10}$	Code	<u>  82</u>	235 COLLE		her: SITE I	ESCRIPTION
		8	7 10 29	1 12 3	0	TN	TEI	APOR)	ATION PIT
COLLECTED	BY: 0150	N/ ISA	ILEY			SE	COR	NER	
то:						OWNER	TONY	I SCH	MITZ
ENVIRO NM OIL State SANTA	NMENTAL 1 CONSERV/ Land Off: FE, NM	BUREAU ATION DI ice Bldg 87504-2	UISION 3., PO H 2088	3ox 208	8	SITE County	LOCATI y: Range, S	CON:	act: (10N06E24342)
ATTN:	DAVID &	<u>Bayer</u>	_	SUNTO	N/ WRLT.	CODE		<u> </u>	
	ONE. 027	-J012		JIAIL				<u>I I I</u>	
SAMPLING C	ONDITION	L/ S•	ATITUDE	, LONGI					
Bail	ed [ ]	Pump	Water I	Level:	Disch	arge:		Samp	Le Type:
$\boxed{X \text{ Dipp}}$	ed [] [	Tap	CORR )	Wator	 • Temp (0	0010)	Cond	G	RAC 25°C
pn(00400) 8			10011.)	water		0010)	(000	)94)	
FTELD COM		930	umho	/	2.5 0	l 	<u> </u>		umho
	ENTS:	resit	ened of	nlis					
SAMPLE FIE	LD TREAT	MENT		<u> </u>	LAB ANA	LYSIS	REQUES	STED:	
Dreserved	Water Water		PF: Wate	er HNO	Mark	AP Sca	n xt to	metal	if DD
Non-Filte	red 3	Filter	red (Pro	2)3	is re	quired	•		
		ANA	LYTIC	AL RES		(MG/L)	)		
ELEMENT	ICAP VA	LUE	AA VAL	UE	ELEMEN	<u> </u>	CAP VA	ALUE	AA VALUE
Aluminum Barium	0.2				Silico	n _	12.	0.1	m
Beryllium	<u>/.  </u> <u> </u>	1	<u></u>		Stront	ium 🦉	7.5	21	└┙
Boron	2,2			_	Tin	<	0.1		
Cadmium	40,			_ {	Vanadi	.um		<u></u>	
Chromium	<u>100.</u> 40.1	R	0.035	=	Arseni	.c —	<u> </u>	<u> </u>	A P. 130
Cobalt	<0.0	5			Seleni	um			
Copper	<0.	L	<u> </u>	[	Mercur	Y			<b>□</b>
Lead	0.4	<b>F</b>	1 10.01	<u> </u>	<u></u>	<u> </u>			⊢ □
Magnesium	40.	<b>I</b> 12		—			·	<u>_</u>	<u> </u>
Manganese	0.54								<u> </u>
Nickel	<	<b></b>	<u> </u>	-					H
		<u> </u>							<u> </u>
LAB COMMEN	TS:						····	PGE	ST 11/16/89
For OCD Us Date Owner	e: Notifie	a: <u>3/</u> /	I	CAP Ana	alyst_	B_	Revi	ewer	= Ashly
Phone	or Lette Initial	r? <u></u> <u>Pens</u> s: <u>78</u>	Di Di	ate Ana	alyzed /	124 87	Date	Revei	ved 2/19/88
									1

N.M. OIL CONSERVATION DIVISION       DATE REC.       9/15/88         P.O. BOX 2088       PRIORITY       PRIORITY         Santa Fe, NM 87504-2088       PRIORITY       PRIORITY         COLLECTION OTTY:       List Main 1000       List 2014         COLLECTION ODD:       (Townho-Rage-Section-Tracto)       Data 1000       List 1000         COLLECTION ODD:       (Townho-Rage-Section-Tracto)       Data 1000       List 1000       List 1000         COLLECTION ODD:       (Townho-Rage-Section-Tracto)       Data 1000       List 1000       List 1000       List 1000         SAMPLE TYPE:       WATER M. SOIL  , FOOD  , OTHER:       CODE       ODE       List 1000       NIV 17 1300         Sample reserved with Machin (Not Preserved)       Sample reserved with Not Preserved       NIV 17 1300       NIV 17 1300         Price       Sample reserved with Not Preserved       Townor the preserved with Not Preserved       NIV 17 1300         MAXISSE REQUESTED       Preserved with Acchin (Not Preserved)       MIV 17 1300       NIV 17 1300         Market & Bargemered with Not Preserved       Townor Preserved 1000000       NIV 17 1300       NIV 17 1300         Market & Bargemered with Machin (Not Preserved)       Townor Preserved 1000000000000000000000000000000000000	REPORT TO: DAVID BOYER	88-1494-C
P.O. BOX 2088       PRIORITY         Santa Fe, NM 87504-2088       PRORITY         COLLECTION CITY:       Lin Mitty         JUST CONSTRUCTION       Santa Fe, NM 87504-2088         COLLECTION ATE/TME CODE:       (rea-Menth-Day-Hour-Minute)       EIS (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	N.M. OIL CONSERVATION DIV	$\frac{1}{1510N}  \text{pate Bec}  9/15788$
Santa Fe, NM       87504-2088       PHONE(S):       827-5812         COLLECTION GITY:       Lighthick       COUNTY:       Sank Apple Ap	P.O. Box 2088	
COLLECTION CITY:	Santa Fe, NM 87504-2088	PHONE(s): 827-5812
COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) [2][0][1][1][1][1][1][1][1][1][1][1][1][1][1]	COLLECTION CITY: Lindrich	: COUNTY: So Rip Arriles
LOCATION GODE: (Township-Range-Section-Tracts) [2]_SM+C 3 (U+C 8+3 / = (10N06224342) USER GODE: [8]2 2 3 5] SUBMITTER: David Boyer CODE! 2_610   SAMPLE TYPE: WATER M, SOIL L, POOD L, OTHER: IIIIIIIIIIIIIIIIIIIIIIIIIIIII	COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Min	nute) 181810191/121/1610141
USER CODE: <u>812 2 3 5</u> SUBMITTER. <u>David Royer</u> CODE: <u>2.610 J</u> SAMPLE TYPE: WATER <u>M</u> , SOIL <u>1</u> , FOOD <u>1</u> , OTHER: <u>III 21 DIF</u> <u>1930</u> This form accompanies <u>2</u> Septum Vials, <u>6</u> Glass Jugs, and/or <u>NOV I7 1930</u> NP: No Preserved with Accorbic Acid to remove chlorine residual. <u>CONSERVATION DIVISION</u> <u>P-AA</u> Sample reserved with Accorbic Acid to remove chlorine residual. <u>CONSERVATION DIVISION</u> <u>P-AA</u> Sample Preserved with Accorbic Acid to remove chlorine residual. <u>CONSERVATION DIVISION</u> <u>P-AA</u> Sample Preserved with Accorbic Acid to remove chlorine residual. <u>CONSERVATION DIVISION</u> <u>P-AA</u> Sample Preserved with Accorbic Acid to remove chlorine residual. <u>CONSERVATION DIVISION</u> <u>AMALISES EQUESTED</u> Plesse check the appropriate box(s) below to indicate the type of analytical screens required. Wherever possible its specific compounds suppected or required. <u>PUBGEABLE SCREEXES</u> [753] Aliphatic Hydrocachon S [754] Atomatic & Hindonethane [755] Mais Shedicasce (1-5 Carbons) [755] Mais Shedicasce (1-5 Carbons) [759] Thisticiae, Triaines [759] Mais Specific Compounds or Classes [759] Mais Specific Compounds or Classes [759] Mais Specific Compounds or Classes [759] Mais Specific Compounds or Classes [751] Division resticides (752] SDWA VOC's I (8 Regulated +) [751] SDWA VOC's I (8 Regulated +) [751] Division ratic Bildenyis (PCB's) [751] Organophorphate Pusicides [752] SDWA Posticide Charbons [753] Davis OC's I (2DB & DBCP) [751] Organophorphate Pusicides Remarks: [752] DATA: [752] DATA: [752] DATA: [752] DATA: [753] Davis OC's I (2DB A BCC) <u>[750] Organophorphate Pusicides</u> [754] Aliphatic Hydrocarbons [755] Mais division and Remarks (i.e. doors, etc.] [755] Mais division and Remarks (i.e. doors, etc.] [755] Mais division and Remarks (i.e. doors, etc.] [755] Mais division and semple was transferred from and that the statements in this block are correct. Evidentiary Seals: Not Sealed [ OR Seals Intact; Yee [ No [ Signaturef [755] Seale Corpoch Seale [ OR Seals Intact; Yee	LOCATION CODE: (Township-Range-Section-Tracts)	N + O   3   W + O   B + 3   /   -  (10 N 06 E 2 4 3 4 2)
SAMPLE TYPE: WATER M. SOIL J., FOOD J., OTHER: This form accompanies Septum Vials, Glass Jugs, and/or Samples were preserved as follows: NP: No Preservation; Sample stored at room temperature. Price Sample stored in an ice bath (Not Prosen). PrA Sample Preserved with Ascorbic Acid to remove chlorine reductation CONNERNATION DIVISION MALAYSES REQUESTED: Please check the appropriate box(e) below to indicate the type of analytical screens required. Whenever possible list operific compounds suspected or required. PIGE BADIES SCREENS (753) Aliphatic Hydrochoirds Acid (2 drops/dv ml) AMALYSES REQUESTED: Please check the appropriate box(e) below to indicate the type of analytical screens required. Whenever possible list operific compounds suspected or required. PIGE BADIES SCREENS (753) Aliphatic Hydrochoirds Acid (2 drops/Neutral Extractables (753) Mars Spectromater Purgeables (754) Amonthane Histogensted Purgeables (755) Mass Spectromater Purgeables (756) Mass Spectromater Purgeables (759) Maronet & Hudgensted Purgeables (759) Maronethane [] (751) Organophopshate Pasticides (759) Maronethane [] (200 Organochorine Pasticides (759) Maronethane [] (200 Organochorine Pasticides (751) SDWA VOC's II (EDB & DBCP) (751) Organophopshate Pasticides (752) SDWA Posticide Compounds or Classes (752) SDWA Pesticides & Herbicides Remarks: 	USER CODE:   8 2 2 3 5 SUBMITTER:	avid Bover CODE: 2-610
This form accompanies Septum Visis, Glass Jugs, and/or NIV 17 1339 Samples were preserved as follows: NP: No Preservation; Sample stored at room temperature. P-ice Sample stored in an ice bath (No Y 16 0000000000000000000000000000000000	SAMPLE TYPE: WATER 1/1, SOIL 1_1, FOOD 1_1, OTHEF	
Samples were preserved as follows:       NOV 17 1303 UU         NP:       No Preservation; Sample stored at room temperature.       NOV 17 1303 UU         P-ice       Sample stored in an ice bath (Not Presen).       OMSERVATION DIVISION         P-A       Sample Preserved with Ascotic Acid to remove chlorine realdulit. OMSERVATION DIVISION         AMALYSES EDQUESTED:       Place the bath (Not Presen).       EXTRACTABLE SCREENS         [753] Aliphatic Headspace (1-5 Carbons)       [751] Aliphatic Headspace (1-5 Carbons)       [753] Aliphatic Headspace (1-5 Carbons)         [755] Mass Spectrometer Purgeables       [759] Herbicides, Chlorophenoxy acid       [759] Herbicides, Chlorophenoxy acid         [764] Thalomethanes       [759] MOW VOC's I (8 Regulated +)       [760] Organochlorine Pasticides         [777] SDWA VOC's II (EDB & DBCP)       [761] Organochlorine Pasticides         [777] SDWA VOC's II (EDB & DBCP)       [761] Organochlorine Pasticides         [777] SDWA VOC's II (EDB & accore at [] °C; Chlorine Residual=mg/l         [761] DATA:       [762] Voluciar Aromatic Hydrocarbons         [778] SDWA VOC's II (BDB (accore at [] °C; Chlorine Residual=mg/l         [761] DATA:       [762] Place Accore at [] °C; Chlorine Residual=mg/l         [762] DATA:       [763] Place Accore at [] °C; Chlorine Residual=mg/l         [763] Datti tities analyses and Remarks (i.e. odors, etc.)       [	This form accompanies Z Septum Vials, Glass Jug	rs. and/or
Kin NP:       No Preservation; Sample stored is icon temperature.         P-Ice       Sample stored in an ice bath (Not Presen).         P-AA       Sample Preserved with Hydrochloric Acid (3 drops/40 mi)         MALYEE       BOUTSTED Plesse check the sapporpriste box(s) balow to indicate the type of analytical screens         required.       Whenever possible list specific compounds suspected or required.         PTEC       Sample Preserved with Hydrochloric Acid (3 drops/40 mi)         MALYEE       BOUTSTED Plesse check the sapporpriste box(s) balow to indicate the type of analytical screens         required.       Whenever possible list specific compounds suspected or required.         If (753) Aliphatic Headspace (1-5 Carbons)       [753] Aliphatic Headspace (1-5 Carbons)         [754] Aromatic & Halogenated Purgeables       [758] Herbicides, Chirophencory acid         [766] Trihalomethanes       [759] Herbicides, Triazines         [774] SDWA VOC's I (2 RD & DBCP)       [761] Organochlorine Pesticides         [774] SDWA VOC's II (2DB & DBCP)       [761] Polychlorinated Biphenyls (PCB's)         [764] Polynuclear Aromatic Hydrocarbons       [762] SDWA Pesticides & Herbicides         PHELD DATA:       [764] Polynuclear Aromatic Hydrocarbons         [764] Polynuclear Aromatic Hydrocarbons       [762] SDWA Pesticides & Herbicides         Remarks:       [764] Polynuclear Aromatic Hydrocarbons <t< td=""><td>Samples were preserved as follows:</td><td>III NOAT (1902 TID</td></t<>	Samples were preserved as follows:	III NOAT (1902 TID
□       P-AA       Sample Preserved with Accorbic Acid to remove chlorine residual." CONSERVATE SAMATYEE REQUESTED Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.         □       THATYEE REQUESTED Please check the appropriate box(es) below to indicate the type of analytical screens         □       THATYEE REQUESTED Please check the appropriate box(es) below to indicate the type of analytical screens         □       (753) Aliphatic Hedgeneated Purgeables       [7751] Aliphatic Hedgeneated Purgeables         □       [776] Thialomethanes       [7753] Bae/Nutral Extractables         □       (774) SDWA VOC's I (2DB & DBCP)       [7761] Organochorine Pesticides         □       (7751) SDWA VOC's I (2DB & DBCP)       [7761] Organochorine Pesticides         □       (7751) SDWA VOC's I (2DB & DBCP)       [7762] SDWA Pesticides & Herbicides         □       (7762] SDWA VOC's I (2DB & DBCP)       [7762] SDWA Pesticides & Herbicides         □       [7762] SDWA Pesticides & defension and [1762] SDWA Pesticides & Herbicides         PH=: Conductivity=       [1760] Aliphatic mg/l; Flow Rate	NP:         No Preservation; Sample stored at room tem           P-Ice         Sample stored in an ice bath (Not Frozen)	iperature.
MALYSES       Explorestred       with Hydrochloric Acid (2 drops/40 ml)         ANALYSES       EQUESTED:       Please check the sppropriate box(se) below to indicate the type of analytical screens         required.       PURGEABLES SCREENS       EXTRACTABLE SCREENS         (753)       Aliphatic Headspace (1-5 Carbons)       [751]       Aliphatic Hydrocarbons         (753)       Aliphatic Headspace (1-5 Carbons)       [753]       [753]       Aliphatic Hydrocarbons         [754]       Mass Spectromater Purgeables       [753]       Herbicides, Chlorophenoxy acid         [774]       SDWA VOC's II (BDB & DBCP)       [764]       Polychlorinate Biphenyis (PCB's)         [774]       SDWA VOC's II (BDB & DBCP)       [764]       Polynuclear Aromatic Hydrocarbons         [775]       SDWA VOC's II (BDB & DBCP)       [764]       Polynuclear Aromatic Hydrocarbons         [775]       SDWA VOC's II (BDB & DBCP)       [764]       Polynuclear Aromatic Hydrocarbons         [774]       SDWA Poc's II (SDB & DBCP)       [764]       Polynuclear Aromatic Hydrocarbons         [762]       SDWA Pesticides & Herbicides       Remarks:       [762]       SDWA Pesticides & Herbicides         PHE       Conductivity=       [762]       SDWA Pesticides & Herbicides       [762]         Sampling Location, Methods and Romarks (i.e	P-AA Sample Preserved with Ascorbic Acid to ren	nove chlorine residual." CONSERVATIONE
AMALYSIS       EXQUESTED: Please check the appropriate box(se) below to indicate the type of analytical screens         required.       FURGEABLE SCREENS       EXTRACTABLE SCREENS         [] (753)       Aliphasii Hadopace (1-5 Carbons)       [] (751)       Aliphasii Hydrocarbons         [] (753)       Aliphasii Hadopace (1-5 Carbons)       [] (751)       Aliphasii Hydrocarbons         [] (753)       Aliphasii Hadopace (1-5 Carbons)       [] (753)       Herbicides, Chlorophanoxy acid         [] (765)       Mass Spectrometer Purgeables       [] (753)       Herbicides, Chlorophanoxy acid         [] (764)       Thislomethanes       [] (761)       Organophosphate Pesticides         [] (774)       SDWA VOC's II (EDB & DBCP)       [] (764)       Polynuclear Aromatic Hydrocarbons         [] (774)       SDWA VOC's II (EDB & DBCP)       [] (764)       Polynuclear Aromatic Hydrocarbons         [] (775)       SDWA VOC's II (EDB & DBCP)       [] (764)       Polynuclear Aromatic Hydrocarbons         [] (775)       SDWA VOC's II (EDB & DBCP)       [] (764)       Polynuclear Aromatic Hydrocarbons         [] (776)       Southoristics       [] (764)       Polynuclear Aromatic Hydrocarbons         [] (775)       SDWA VOC's II (EDB & DBCP)       [] (764)       Polynuclear Aromatic Hydrocarbons         [] (776)       Southotoristics	P-HCl Sample Preserved with Hydrochloric Acid (2	l drops/40 ml)
PURCEASE SCREENS         EXTRACTABLE SCREENS         [753] Aliphatic Headspace (1-5 Carbons)       [753] Aliphatic Hydrocarbons         [754] Aromatic & Halogenated Purgeables       [755] Herbicides, Chicophonestar Sectors, acid         [766] Trihalomethanes       [753] Organochlorine Pesticides         [774] SDWA VOC's I (8 Regulated +)       [760] Organochlorine Pesticides         [774] SDWA VOC's I (2DB & DBCP)       [761] Organochlorine Pesticides         [774] SDWA VOC's I (2DB & DBCP)       [761] Organochlorine Pesticides         [775] Herbicides, Triazines       [776] Organochlorine Pesticides         [776] Other Specific Compounds or Classes       [776] (771) Polychlorinated Biphenyls (PCB's)         [778] Herbicides, Triazines       [762] SDWA VOC's I (2D's)         [778] Herbicides, Triazines       [778] Herbicides, Triazines         [779] Other Specific Compounds or Classes       [776] (771) Polychlorinated Biphenyls (PCB's)         [779] Other Specific Compounds or Classes       [776] (772] SDWA Pesticides & Herbicides         PH=: Conductivity=2/2D/Umho/cm at [1.5 °C; Chlorine Residual=mg/l]       [781] Polychlorinated Biphenyle (PCB's)         Phito water 2B, 7 R.; Depth of well 74.5 R.; Perforation Interval R.; Casing:	ANALYSES REQUESTED: Please check the appropriate box(es	) below to indicate the type of analytical screens
[753] Aliphatic Headspace (1-5 Carbons)          [754] Aromatic & Halogenated Purgeables       [751] Aliphatic Hydrocarbons         [756] Mass Spectrometer Purgeables       [753] Base/Neutral Extractables         [756] Mass Spectrometer Purgeables       [753] Base/Neutral Extractables         [756] Mass Spectrometer Purgeables       [753] Herbicides, Chiorophenoxy acid         [756] Mass Spectrometer Purgeables       [753] Herbicides, Triasines         [774] SDWA VOC's I (8 Regulated +)       [760] Organochlorine Pesticides         [775] SDWA VOC's II (EDB & DBCP)       [761] Organophosphate Pesticides         [775] Other Specific Compounds or Classes       [762] (761) Polychlorinated Biphenyis (PCB's)         [776] Other Specific Compounds or Classes       [764] Polynuclear Aromatic Hydrocarbons         [776] Polychlorinated Biphenyis (PCB's)       [762] SDWA Pesticides         [777] Data       [776] Polychlorinated Biphenyis (PCB's)         [778] Basolved Oxygen=mg/l; Flow Rate	PURGEABLE SCREENS	EXTRACTABLE SCREENS
Image: Sector of the sector	(753) Aliphatic Headspace (1-5 Carbons)	(751) Aliphatic Hydrocarbons
[ (765) Mass Spectrometer Purgeables          [ (766) Trihalomethanes       [ (759) Herbicides, Chiorophenoxy acid         [ (766) Trihalomethanes       [ (759) Herbicides, Triasines         [ (766) Trihalomethanes       [ (759) Herbicides, Triasines         [ (776) SDWA VOC's I (8 Regulated +)       [ (760) Organophosphate Pesticides         [ (775) SDWA VOC's I (2DB & DBCP)       [ (761) Organophosphate Pesticides         [ (775) SDWA VOC's II (EDB & DBCP)       [ (761) Organophosphate Pesticides         [ (776) Polychlorinated Biphenyls (PCB's)       [ (762) SDWA Pesticides & Herbicides         [ (776) Data       [] (776) Polychlorinated Biphenyls (PCB's)         [ (776) Data       [] (776) Polychlorinated Biphenyls (PCB's)         [ (776) Data       [] (776) Polychlorinated Biphenyls (PCB's)         [ (776) Polychlorinated Biphenyls (PCB's)       [ (764) Polynuclear Aromatic Hydrocarbons         [ (776) Data       [] (776) SDWA Pesticides       [ (776) Polychlorinated Biphenyls (PCB's)         [ (776) Polychlorinated Biphenyls (PCB's)       [ (764) Polynuclear Aromatic Hydrocarbons       [ (776) Polychlorinated Biphenyls (PCB's)         [ (776) Data       [ (776) Polychlorinated Biphenyls (PCB's)       [ (761) Organophosphate Pesticides         [ pH=: Conductivity=]//Ddumbo/cm at [ (	🕱 (754) Aromatic & Halogenated Purgeables	(755) Base/Neutral Extractables
[ [768] Trhalomethanes [ [776] Trhalomethanes [ [774] SDWA VOC's I (8 Regulated +) [ [775] SDWA VOC's I (EDB & DECP) [ [776] Organophosphats Pesticides [ [776] Tolychlorinated Biphenyls (PCB's) [ [776] [776] Polychlorinated Biphenyls (PCB's) [ [776] [776] Polychlorinated Biphenyls (PCB's) [ [776] [776] Polychlorinated Biphenyls (PCB's) [ [776] [777] Polychlorinated Biphenyls (PCB's) [ [776] [778] DATA: [ [778] [77	(765) Mass Spectrometer Purgeables	(758) Herbicides, Chlorophenoxy acid
[] (774) SUWA VOC's I (8 Regulated +)     [] (760) Organochoome Pesticides     [] (775) SUWA VOC's II (EDB & DBCP)     [] (761) Organophosphate Pesticides     [] (761) Organophosphate Pesticides     [] (762) SUWA Pesticides     [] (763) Organophosphate Pesticides     [] (764) Polynuclear Aromatic Hydrocarbons     [] (762) SUWA Pesticides & Herbicides     [] (762) SUWA Pesticides & Herbicides     [] (763) Organophosphate Pesticides     [] (764) Polynuclear Aromatic Hydrocarbons     [] (762) SUWA Pesticides     [] (763) Organophosphate Pesticides     [] (764) Polynuclear Aromatic Hydrocarbons     [] (762) SUWA Pesticides     [] (762) SUWA Pesticides     [] (762) SUWA Pesticides     [] (763) Organophosphate Pesticides     [] (764) Polynuclear Aromatic Hydrocarbons     [] (762) SUWA Pesticides     [] (763) Organophosphate Pesticides     [] (764) Polynuclear Aromatic Hydrocarbons     [] (762) SUWA Pesticides     [] (763) SUWA Pesticides     [] (764) Polynuclear Aromatic Hydrocarbons     [] (762) SUWA Pesticides     [] (762) SUWA Pesticides     [] (763) SUWA Pesticides     [] (764) Polynuclear Aromatic Hydrocarbons     [] (764) Polynuclear Aromatic Hydrocarbons     [] (762) SUWA Pesticides     [] (764) Polynuclear Aromatic Hydrocarbons	(766) Trihalomethanes	(759) Herbicides, Triazines
Other Specific Compounds or Classes       [(767) Polynuclear Aromatic Hydrocarbons         Other Specific Compounds or Classes       [(762) SDWA Pesticides         [(764) Polynuclear Aromatic Hydrocarbons       [(762) SDWA Pesticides & Herbicides         Remarks:       [(762) SDWA Pesticides & Herbicides         FIELD DATA:       [(762) SDWA Pesticides & Herbicides         pH=; Conductivity=       [/2]/20 umho/cm at [/.5] °C; Chlorine Residual=mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate	(774) SDWA VOC'S I (8 Regulated +)	(760) Organochlorine Pesticides
[764] Polynuclear Aromatic Hydrocarbons         [764] Polynuclear Aromatic Hydrocarbons         [762] SDWA Pesticides & Herbicides         Remarks:	Other Specific Compounds or Classes	(767) Polychlorinated Biphenyls (PCB's)
Image: Constructive in the statements in this block are correct. Evidentiary Seale: Not Sealed Image: Organization on Image: Construction in the statements in this block are correct. Evidentiary Seale: Not Sealed Image: Organization on Image: Constructive in the statements in this block are correct. Evidentiary Seale: Not Sealed Image: Organization on Image: Constructive in the statements in this block are correct. Evidentiary Seale: Not Sealed Image: Organization on Image: Constructive in the image: Constructive in the image: Construction on Image: Constructi		(764) Polynuclear Aromatic Hydrocarbons
Remarks:		[] (762) SDWA Pesticides & Herbicides
FIELD DATA:       .         pH=; Conductivity=       ?       ?       C; Chlorine Residual=mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate/	Remarks:	
FIELD DATA:         pH=; Conductivity=       ???? C; Chlorine Residual=mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate         Depth to water 26, 4 ft.; Depth of well 44, 5 ft.; Perforation Interval ft.; Casing:         Sampling Location, Methods and Remarks (i.e. odors, etc.)		
pH=; Conductivity=7/20umho/cm at //.S°C; Chlorine Residual=mg/l Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water 28, 4 ft.; Depth of well 44, 5 ft.; Perforation Intervalft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) 	FIELD DATA:	
Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water 28, 4 ft.; Depth of well 44, 5 ft.; Perforation Intervalft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) ML/ # 2, JA/- J.Sp2for, J.M. Muffy I certify that the results in this block accurately reflect the results of my field analyses, observations and CHAIN OF CUSTODY I certify that this sample was transferred from to at (location) on on to and that the statements in this block are correct. Evidentiary Seals: Not Sealed OR Seals Intact: Yes No	pH= : Conductivity=7/20umho/cm at // 5°C: (	Chlorine Residual= $m\sigma/l$
Depth to water 28, 4 ft.; Depth of well 44, 5 ft.; Perforation Interval ft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) 	Dissolved Oxygen= mg/l: Alkalinity= mg/l: Flow	Rate /
Sampling Location, Methods and Remarks (i.e. odors, etc.) MLU # 2, TAI-T DISPATED, Linkruffy I certify that the results in this block accurately reflect the results of my field analyses, observations and The Constitutions. CHAIN OF CUSTODY I certify that this sample was transferred from to to to to to to to to to	Denth to water 28, 4 ft : Denth of well 44. S. ft : Perforati	ion Intervalft Casing
Sampling Location, whethous and remnarks (i.e. odors, etc.) $(A, Odors, etc.)$ $(A, Odor$	Suppling Logation Matheda and Pamarka (i.e. adam ata)	in more a
I certify that the results in this block accurately reflect the results of my field analyses, observations and	No 1 1 H T TAL T Lord Colors	) lin litt
I certify that the results in this block accurately reflect the results of my field analyses, observations and	-MU - 2, 171-1 1)15 perfos	, LINA MAL
I certify that the results in this block accurately reflect the results of my field analyses, observations and	·	
activities.(signature collector):	I certify that the results in this block accurately reflect the	results of my field analyses, observations and
CHAIN OF CUSTODY I certify that this sample was transferred from to to at (location) on and that the statements in this block are correct. Evidentiary Seals: Not SealedOR_Seals Intact: Yes No Signatures'	activities.(signature collector):	Method of Shipment to the Lab: <u>North (</u>
I certify that this sample was transferred from to at (location) on/ and that the statements in this block are correct. Evidentiary Seals: Not SealedOR_Seals Intact: Yes No Signatures'	CHAIN OF CUSTODY	
at (location) on on and that the statements in this block are correct. Evidentiary Seals: Not Sealed OR Seals Intact: Yes No Signatures'	I certify that this sample was transferred from	to
the statements in this block are correct. Evidentiary Seals: Not Sealed OR Seals Intact: Yes No Signatures	at (location)	on/; and that
Signatures'		
	the statements in this block are correct. Evidentiary Seals: No	ot Sealed <u>OR</u> Seals Intact: Yes NO

ANALYSES PERFORMED		LAB. No.: OR- 1494	
THIS PAG	E FOR LABO	RATORY RELETS ONLY	• 
This sample was tested using the analytical scree	ning method(s) <sup>.</sup>	checked below:	•
PURGEABLE SCREENS         (753)       Aliphatic Headspace (1-5 Carbons)         (754)       Aromatic & Halogenated Purgeables         (755)       Mass Spectrometer Purgeables         (766)       Trihalomethanes         (774)       SDWA VOC's I (8 Regulated +)         (775)       SDWA VOC's II (EDB & DBCP)         Other       Specific Compounds or Classes		EXTRACTABLE SCREENS  (751) Aliphatic Hydrocarbons (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triasines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (761) Organophosphate Pesticides (762) SDWA Pesticides & Herbicides	
_ <u>AN</u>	ALYTICA	L RESULTS	
· COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
asamatia Auropakles	N.D.		
haling the human lite	1/17		
- marty marter poingerous	10 (12.0		
·····			
			[
			{
	<u> </u>		
• DETECTION LIMIT • 🗡	. 5-17/0	+ DETECTION LIMIT + +	
ABBREVIATIONS USED: N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [ RESULTS IN BRACKETS ] ARE UNCONI	THE STATED THE STATED FIRMED AND/4	D DETECTION LIMIT D DETECTION LIMIT (NOT CONFIRMED) OR WITH APPROXIMATE QUANTITATION	
LABORATORY REMARKS:		والمرجود فالمراجب والمرجوب والمرجوب والمرجوب والمرجوب والمرجوب والمرجوب والمرجوب والمرجوب والمرجوب	••••••
	·		
CERTIFICA	TE OF ANALY	TICAL PERSONNEL	
Seal(s) Not Sealed Intact: Yes No . I certify that I followed standard laboratory procedu that the statements on this page accurately reflect t Date(s) of analysis: 2/14/28. Analyst's sig	Seal(s) broken i res on handling he analytical re gnature:	by: <u>Mat stalled</u> date: and analysis of this sample unless otherwise noted esults for this sample. Jany C. Elen	and
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: KIN eyen help			
<u> </u>	<u></u>		

New Mexico Health and Environment Department SCIENTIFIC LABORATOR 700 Camino de Salud NE Albuquerque, NM 87106 - (505) 841-2555	SS9 WNN and NITROGEN ANALYSIS
ATE IS 88 NO. WC 3690 USER D 593	ю <u>59600</u> ХХ отнея: 82235
Nection Date Sitte Sitte INFORM ►	W#2, T-N-T Dispose
ATION Collection site description	" Linde ittle .
13ay /OCD	
ENVIRONMENTAL BUREAU NM OIL CONSERVATION DIVISION State Land Office Bldg, PO Box/208 Santa Fe, NM 87504-2088 Attn: David Boyer Phone: 827-5812	Station/ well code 25N, 03W, 08,
AMPLING CONDITIONS	Owner J
Z. Bailed □ Pump Water level □ Dipped □ Tap □ □ Tap	Discharge Sample type
H (00400) Conductivity (Uncorrected)	Water Temp. (00010)
ield comments	
	·
AMPLE FIELD TREATMENT — Check proper boxes	high with
submitted / ZNF: (Non-filtered) - F: O.45 µm	ambrane filter
$\mathbf{\Sigma}$ NA: No acid added $\Box$ Other-specify: $\Box$ A:	5ml conc. $HNO_3$ added $\square A$ : 4ml fuming $HNO_3$ ad
NALYTICAL RESULTS from SAMPLES	
Conductivity (Corrected)	From <u>NF</u> , NA Sample: Date Analyzed
$25^{\circ}C(00095)$ 16313µmho111	
] Total non-filterable residue (suspended)	Z calcium mg/1/o//2
(00530) Other: $v/1/(a/c) = 7.83$ mg/l	$= \boxed{Magnesium} \qquad 66.5 \text{ mg/l} \qquad 10/12$
☐ Other:	-1205  mg/l / 205  mg/l
] Other:	- Bicarbonate 113 mg/1 10/20
A-H <sub>2</sub> SO <sub>4</sub>	Chloride <u>5995 mg/1 9/20</u>
Nitrate-N +, Nitrate-N total (00630) mg/l mg/l	$[20]$ Sulfate $128$ mg/1 $\frac{4/20}{20}$
☐ Ammonia-N total (00610) mg/l	- 🕅 Total Solids <u>11332 mg/1 9/20</u>
	$- \square CO_2 - \square io/20$
Chemical oxygen     demand (00340)     mg/l	_ Bp 0.60 Mg/2 9/22_
] Total organic carbon ( mg/l mg/l	- Mation Arion Palance
☐ Other:	Analyst Date Reported Reviewed by
Other:	- // 2< 85
aboratory remarks	Till Dia 1 mili 195
10 169 - 10102/ 1, 302	1, TDS by phone by 19 4 mile
5995 10 149 - Kepo2/ Cr; 502	1, TDS by Phone by 1974 Still
5995 Dete Dete Gran Natified 12 12	R phone or (letter?)

	ANALYTE	CATIONS 	PPM	DET. LIMIT	ANALYTE	ANIONS  E MEQ.	PPM	DET. LIMIT
	Ca Mg Na K	26.55 5.46 139.41 0.51	532.00 66.50 3205.00 20.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	1.85 2.67 169.11	113.00 128.00 5995.00	<1.0 <10.0 <5.0
	Mn Fe	0.00 0.00	0.00 0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
ı	SUMS Total I Ion Bal	171.93 Dissolved ance =	3823.50 Solids= 99.02%	   11332	WC Date c	173.63 C No. put/By _	6236.00 = 8803690	_

•

•

1

New Mexico Health and Environment Department SCIENTIFIC LABORATOF 1SION 700 Camino de Salud NE Albuquerque, NM 87106	HEAVY METAL ANALYSIS FORM Telephone: (505)841-2553
Date Received91588Lab No.ICAP 423User CodeCOLLECTION DATE & TIME:yy mm ddhhBB 09 1216	$\begin{array}{c cccc} \hline & & & & \hline & & \\ \hline & & & & \\ \hline & & & &$
COLLECTED BY: Boyy/ab	
TO:	OWNER:
ENVIRONMENTAL BUREAU NM OIL CONSERVATION DIVISION State Land Office Bldg., PO Box 20 SANTA FE, NM 87504-2088 ATTN: <u>b, Boyer</u> TELEPHONE: 827-5812 STATI	88 Township, Range, Section, Tract: (10N06E24342) 25W+03Ke+08+31/1- ON/ WELL CODE:
- LATTTIDE LONG	
SAMPLING CONDITIONS:	Discharge: Sample Type:
Dipped Tap 29,4	Tomm (00010) / Conductivity at 25°C
ph(00400) conductivity(uncorr.) wate	$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = 1$
FIELD COMMENTS:	
SAMPLE FIELD TREATMENTCheck proper boxes:XWPN: WaterPreserved w/HNO3Preserved w/HNO3Non-FilteredFiltered	LAB ANALYSIS REQUESTED: X ICAP Scan Mark box next to metal if AA is required.
ANALYTICAL RE	SULTS (MG/L)
ELEMENTICAP VALUEAA VALUEAluminum $4.3$	ELEMENT       ICAP VALUE       AA VALUE         Silicon       5.0
LAB COMMENTS:	Huyest
For OCD Use: Date Owner Notified: 1978 ICAP An Phone or Letter? Initials: 1972 Date An	alyst AAA Reviewer Achty alyzed 10/12/88 Date Reveived 10/18/88

	SCONTIFIC LABORATOR RGANIC ANALYSIS REQU Organic Section - Phone:	RY DIVISION 754 JEST FUN WPW 88-1063-C 841-2570
REPORT TO:	DAVID BOYER	S.L.D. No. OR- 1063 H4B
	N.M. OIL CONSERVATION DIVISION	DATE REC. 7-1-88
	P.O. Box 2088	PRIORITY
	Santa Fe, NM 87504-2088	PHONE(S): 827-5812
COLLECTION C	CITY:	; COUNTY: <u><i>Rio Arriba</i></u>
COLLECTION I	ATE/TIME CODE: (Year-Month-Day-Hour-Minute)	81810161319101810101
LOCATION CO	DE: (Township-Range-Section-Tracts) $ \frac{\partial}{\partial} 5 \mathcal{N} + \mathcal{Q} $	$\frac{1}{3} \omega + 0 8 + 3 2 $ (10N06E24342)
USER CODE:	8 2 2 3 5  SUBMITTER: David	BoyerCODE: 2 6 0
SAMPLE TYPE	: WATER  X , SOIL  _ , FOOD  _ , OTHER:	-
Samples were pr NP: P-Ice P-AA P-HCl ANALYSES RE required. Whene (753) Aliph (754) Arom (755) Mass (766) Triha (776) Triha (774) SDW Othe Remarks:	reserved as follows: No Preservation; Sample stored at room temperature. Sample stored in an ice bath (Not Frosen). Sample Preserved with Ascorbic Acid to remove chl. Sample Preserved with Hydrochloric Acid (2 drops/- QUESTED: Please check the appropriate box(es) below ver possible list specific compounds suspected or require PURG EABLE SCREENS atic Headspace (1-5 Carbons) atic & Halogenated Purgeables Spectrometer Purgeables Iomethanes A VOC's I (8 Regulated +) A VOC's I (8 Regulated +) A VOC's II (EDB & DBCP) T- N-T MOMITOR WEL-	orine residual. (111) 40 ml) to indicate the type of analytical screens ed. EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) 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
FIELD DATA:	_	· · · · · · · · · · · · · · · · · · ·
pH=; C	conductivity= $\frac{1}{23}$ umho/cm at $\frac{3}{3}$ C; Chlorine	Residual=mg/l
Dissolved Oxyge	m=mg/l; Alkalinity=mg/l; Flow Rate	/
Depth to water	3435 ft.; Depth of well $44.26$ ft.; Perforation Inter	valft.; Casing:
Sampling Location	on, Methods and Remarks (i.e. odors, etc.)	$\rho_{1} =$
<u> </u>	The wer of strimere	
I certify that the sectivities of the sectivities of the sectivities of the section of the secti	he results in this block accurately reflect the results our collector):	f my field analyses, observations and _ Method of Shipment to the Lab:
CHAIN OF CU	STOD Y	
I certify that t	his sample was transferred from	to
at (location)	on	/: and that
the statements	in this block are correct. Evidentiary Seals: Not Sealed	OR Seals Intact: Yes No
Signatures		
For OCD	use: Date owner notified:	Phone or Letter? Initial R

ļ

,

# ANALYSES PERFORMED

THIS PA	GE FOR LABO	RATORY RESULTS ONLY	
This sample was tested using the analytical scre	ening method(s)	checked below:	
PURGEABLE SCREENS         (753)       Aliphatic Headspace (1-5 Carbons)         (754)       Aromatic & Halogenated Purgeables         (765)       Mass Spectrometer Purgeables         (766)       Trihalomethanes         (774)       SDWA VOC's I (8 Regulated +)         (775)       SDWA VOC's II (EDB & DBCP)         Other       Specific Compounds or Classes		EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides	
ΑΝ		L RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
$\frac{appratic}{halogenatf} \frac{purgeables}{halogenatf} \frac{purgeables}{purgeables}$ $\frac{\bullet \text{ DETECTION LIMIT } \bullet \times \bullet$ ABBREVIATIONS USED: $N D = NONE DETECTED AT OR ABOV$ $T R = DETECTED AT A LEVEL BELOV$ $[ RESULTS IN BRACKETS ] ARE UNCON$	E THE STATE WITH STATE	$\frac{1}{1}$	
LABORATORY REMARKS: <u>Tame CAMP</u>	under -	in the C3 substituted	<u>benjene</u>
CERTIFICA Seal(s) Not Sealed Intact: Yes No Z I certify that I followed standard laboratory proced that the statements on this page accurately reflect Date(s) of analysis: <u>17/4/85</u> . Analyst's s I certify that I have reviewed and concur with the Reviewers signature: <u>Mayholic</u>	ATE OF ANALY Seal(s) broken ures on handling the analytical r signature: <u>Ma</u> analytical resu	TICAL PERSONNEL by: <u>met shallin</u> date: g and analysis of this sample unless otherwise note esults for this sample. <u>Reg C. Wen</u> Its for this sample and with the statements in thi	s block.

	New Mexico Hea SCIENTIFIC LAE 700 Camino de S Albuquerque, NM	alth and Exponent Department BORATON IVISION Salud NE M 87106 (505) 841-2555	859 WN G	and NITR	VATER CHEMISTRY OGEN ANALYSIS
Collection TIME	<u>7 1881</u>	AB O. W.C. J434 USER □ 5930 SITE INFORM- ► ATION	0 □ 59600 XX ( <i>T</i> - <i>N</i> - <i>T</i>	DTHER: 822 מושביית היייייייייייייייייייייייייייייייייי	235 -or well 2
O800 Collected by - Person/A ANDEXSC	Agency AD/BAIL	EY/OCD	nw i	UEST	OF SKIMMER FIT
SEND FINAL REPORT TO Attn:	ENVIRONMEN NM OIL CONS State Land Santa Fe, I David Boy	TAL BUREAU SERVATION DIVISION Office Bldg, PO Box 208 NM 87504-2088 Yer	8	Station/ well code	
		112		Owner	<u></u>
Bailed Dipped	Pump Tap	Water level 39.35	Discharge	- <u>L.,.</u>	Sample type
рН (00400)		Conductivity (Uncorrected) ノノ ひろつ) µmho	Water Temp. (00010)	/3 °C	Conductivity at 25°C (00094) µmho
submitted X NA: No aci ANALYTICAL F NA	id added	·: (Non-filtered) ····································	mbrane filter $\square A$ : 5m1 conc. $HNO_3$ a		A: 4ml fuming HNO <sub>3</sub> added
Conductivity (0 25°C (00095)	Corrected)	μmho	- From <u><i>M/</i></u> ,	NA Sample	Analyzed
<ul> <li>Total non-filtera residue (suspe (00530)</li> <li>Other:</li> </ul>	able Inded) 	mg/l	☐ [2] Calcium	117.	$\frac{mg/1}{7/26} + \frac{7/25}{1} + \frac{7/26}{7/25} + \frac{7/25}{7/25} + \frac{7/25}{7/25} + \frac{7}{7} + \frac{7}{7}$
<ul> <li>Other:</li> <li>Other:</li> </ul>			- 🛛 Sodium - 🔀 Bicarbonati	<u>یک</u> 16	<u>6 mg/1 7726</u> 6 mg/1 8/1
A-H₂SO₄			X Chloride	(of)	<u>mg/1_8/i2</u>
Nitrate-N +, Ni total (00630)	trate-N	ma/l	= 🔀 Sulfate		34 mg/1 8/12
Ammonia-N to	tal (00610)	mg/l	- 🔣 Total Soli	ds <u>130</u>	Z_mg/1_7/20
Total Kjeldahl-I (	N	ma/l			
Chemical oxyg	en 0)	''''y''		<u>'en in en en</u>	· · · · · · · · · · · · · · · · · · ·
Total organic c	arbon	mg/I	-  🖵		
( ) □ Other:		mg/l	- X Cation/A	nion Ba	lance
□ Other:			Analyst	Date R	eported Reviewed by
Laboratory remark	is			ł	
					<u> </u>
FOR OCD US	E Date (	Dwner Notified 12/2/82	Phone or Lett	er]	Initals // E

ANALYTE	CATIONS  MEQ.	PPM	DET. LIMIT	ANALYTE	ANIONS MEQ.	PPM	DET. LIMIT
Ca Mg Na K	29.94 9.61 145.54 0.33	600.00 117.00 3346.00 13.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	2.72 2.79 169.25	166.00 134.00 6000.00	<1.0 <10.0 <5.0
Mn Fe	0.00 0.00	0.00 0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	185.42	4076.00			174.76	6300.00	
Total I Ion Bal	Dissolved Lance =	Solids= 106.10%	13012	WC Date c	C No. out/By	= 8802434	(

N.M. CIL CONSERVATION DIVISION       DATE REC. <b>4</b> [15/88]          P.O. BOX 2088       PRIORITY       3         Santa Fe, NN 87504-2088       PRIORITY       3         COLLECTION CITY:       London And And And And And And And And And An	REPORT TO: DAVID BOYER	88-1497-C
P.O. BOX 2088       PRIORITY         Santa Fe, NM 87504-2088       PRORITY         COLLECTION CITY:       MAXMA         COLLECTION CODE:       (res-Month-Day-Hour-Minute)         Discover       Sile 10 19 11 161 31 51         LOCATION CODE:       (Iso International Structure)         Discover       Sile 10 12 15 19 UBMITTER:         Discover       CODE:       CODE:         Sample reserved with Ascover backing and properties book of a to remove chlorine residual       NOV 17 1930         P-AG       Sample Preserved with Hydrochloric Add (2 dorp/40 ml)       NOV 17 1930         MALVYER       Sourgenerice with Hydrochloric Add (2 dorp/40 ml)       NOV 17 1930         MALVYER       Sourgenerice with Hydrochloric Add (2 dorp/40 ml)       NOV 17 1930         MALVYER       Sourgenerice with Hydrochloric Add (2 dorp/40 ml)       NOV 17 1930         MALVYER       Sourgenerice with Hydrochloric Add (2 dorp/40 ml)       NOV 17 1930         MALVYER       Sourgenerice with Hydrochloric Add (2 dorp/40 ml)       NOV 17 1	N.M. OIL CONSERVATION DIVISION	
Santa Fe, NM 37504-2088       PHONE(8):       827-5812         COLLECTION CITY:       Lindbirdy       country:       [] AM2/6 (2)         COLLECTION ATE/TME CODE:       (Year-Month-Day-Bour-Minute)       [] [] [] [] [] [] [] [] [] [] [] [] [] [	P.O. Box 2088	
COLLECTION GITY:	Santa Fe. NM 87504-2088	
OCCLECTION DATE/TIME CODE: (Year-Menth-Day-Hour-Minute) [2][2][2][2][2][2][2][2][2][2][2][2][2][	COLLECTION CITY: 1 in driftle	- PHONE(S)
OCCATION CODE:       (1000000000000000000000000000000000000	COLLECTION DATE/THE CODE: (Year Marth Day Have Minute) 1/2/2	
Description       Description       Description       Description       Description       Description         USER CODE:       []] [] [] [] [] [] SUBMITTER:       David Boyer       CODE: [] [] [] [] [] [] [] [] [] [] [] [] []	LOCATION CODE: (Township Banes Section Tracts) 17 1 51 4/1 (2) 3	1(x) + (2) + (2) + (2) + (1) + (1) + (1) + (2)
Order       Order <td< td=""><td><math display="block">\frac{1}{2} = \frac{1}{2} = \frac{1}</math></td><td></td></td<>	$\frac{1}{2} = \frac{1}{2} = \frac{1}$	
SAMPLE TIPE: WATCH [L], SOLL [], FOOD [], OTHER:         This form accompanies	CALLE THE THE ALL SOLULING BOYE	CODE: 21010
This form accompanies	SAMPLE TIPE: WATER X, SOIL , FOOD , OTHER:	
Sample were preserved as follows:       No Preservation; Sample stored at room temperature.       No V 17 1939         P-Ea       Sample stored in an ice bath (Not Frosen).       No V 17 1939         P-EA       Sample Preserved with Ascorbic Acid (2 drops/40 mi)       NoV 17 1939         P-EA       Sample Preserved with Hydrochloric Acid (2 drops/40 mi)       Image: Strange Preserved with Hydrochloric Acid (2 drops/40 mi)         AMALYSES BEQUESTED:       Preserved with Bydrochloric Acid (2 drops/40 mi)       Image: Strange Preserved with Hydrochloric Acid (2 drops/40 mi)         (753) Aliphatic Headspace (1-5 Carbons)       [(751) Aliphatic Hydrochloric Preserves       Image: Strange Preserve (155)         [(753) Mass Spectrometer Purgeables       [(753) Herbicide, Chlorophanoxy acid       [(754) Herbicide, Chlorophanoxy acid         [(765) Trihalomethanes:       [(761) Organochloric Presides       [(762) SDWA VOC's II (BR aguilated +)       [(761) Organochloric Presides         [(763) SDWA VOC's II (BR aguilated +)       [(761) Organochloric Presides       [(762) SDWA Poeticides & Herbicides         [(763) Trihalomethanes:       [(761) Organochloric Presides       [(762) SDWA Poeticides         [(763) SDWA VOC's II (BD & DBCP)       [(761) Organochloric Presides       [(762) SDWA Poeticides         [[10] DLT	This form accompanies Septum Vials, Glass Jugs, and/or	
Price       Sample Preserved with Ascorbic Acid to Frozen).       NOV 17 1938         PrAA       Sample Preserved with Motorbic Acid (2 dropp://o mi)       NOV 17 1938         P.AC       Sample Preserved with Motorbic Acid (2 dropp://o mi)       NOV 17 1938         MANLYSES       BEQUESTED:       Place acid with Mydochloric Acid (2 dropp://o mi)         MALYSES       BEQUESTED:       Place acid with Mydochloric Acid (2 dropp://o mi)         ITSI)       Aliphatic Headspace (1-5 Carbons)       ITSI)       ITSI Aliphatic Headspace (1-5 Carbons)         ITSI)       Amas Spectrometer Purgeables       ITSI Bae/Neutral Extractables         ITSI)       Moss Spectrometer Purgeables       ITSI Bae/Neutral Extractables         ITSI SDWA VOC's II (EDB & DBCP)       ITSI Organochlorins Pesticides         ITSI SDWA VOC's II (EDB & DBCP)       ITSI Organophosphate Pesticides         ITSI SDWA VOC's II (EDB & DBCP)       ITSI Organophosphate Pesticides         ITSI SDWA VOC's II (EDB & DBCP)       ITSI Organophosphate Pesticides         ITSI SDWA VOC's II (EDB & DBCP)       ITSI Organophosphate Pesticides         ITSI SDWA VOC's II (EDB & DBCP)       ITSI Organophosphate Pesticides         Itsi State       ITSI SDWA VOC's II (EDB & DBCP)       ITSI SDWA Postic Hydrophosphate Pesticides         Itsi State       ITSI SDWA Postic II (EDB & DBCP)       ITSI SDWA Postic Hydrophos	Samples were preserved as follows:	
PAA       Sample Preserved with Ascorbic Acid to remove chlorine residual.       NUT 1         P.HCI       Sample Preserved with Hydrochloric Acid (2 drops/40 ml)       NUT SIGN         MALYESE REQUESTED Please check the appropriate box(s) balow to indicate the ity of any distribute foreens       Tenter (100 DIVISION)         (753) Allphatic Headprotect the appropriate box(s) indicate the ity of any distribute foreens       EXTRACTABLE SCREEMS         (753) Allphatic Headprotect the appropriate box(s) indicate the ity of any distribute foreens       EXTRACTABLE SCREEMS         (753) Allphatic Headprotect the appropriate box(s) indicate the ity of any distribute foreens       EXTRACTABLE SCREEMS         (753) Allphatic Headprotect the appropriate box(s) indicate the ity of any distribute for any distribute f	$\nabla$ P-Ice Sample stored in an ice bath (Not Frosen).	101 NOV 17 1988 1111
P.HCI       Sample Preserved with Hydrochloric Acid (2 drops/40 ml)         ANALYSES       BDQUESTED:         PURGEABLE SCREENS       EXTRACTABLE SCREENS         (733)       Aliphatic Headspace (1-5 Carbons)       (751)         (753)       Malegenated Purgeables       (751)         (755)       Mase Spectrometer Purgeables       (753)         (764)       Aromatic & Hudscenated Purgeables       (753)         (774)       Malegenated Purgeables       (753)         (775)       SDWA VOC's I (8 Regulated +)       (760)         (775)       SDWA VOC's I (8 Regulated +)       (760)         (775)       SDWA VOC's I (8 Regulated +)       (764)         (775)       SDWA VOC's I (8 Regulated +)       (764)         (775)       SDWA VOC's I (8 DB & DBCP)       (761)         Other Specific Compounds or Classes       (767)       Polychlorinated Biphenyls (PCB's)         (762)       SDWA Poeticides & Herbicides       (762)         PH=: Conductivity=       mg/l; Flow Rate	P-AA Sample Preserved with Ascorbic Acid to remove chlorine	residual.
AMALYSES REQUESTED: Please check the appropriate box(as) bolow to indicate the the the subsected or required.       EXTRACTABLE SCREENS         [733] Aliphatic Headspace (1-5 Carbons)       [751] Aliphatic Hydrocarbons         [753] Aliphatic Headspace (1-5 Carbons)       [753] Aliphatic Hydrocarbons         [755] Mass Spectrometer Purgeables       [756] Anisonatic & Halogenated Purgeables       [758] Aliphatic Hydrocarbons         [759] Mass Spectrometer Purgeables       [758] Merbicides, Chiorophenoxy acid         [759] Thalomethanes       [750] Organochionics Pesticides         [771] XDWA VOC's I (8 Regulated +)       [760] Organochionics Pesticides         [775] SDWA VOC's I (EDB & DBCP)       [761] Organophosphate Pesticides         [772] Organochione Pesticides       [774] Polynuclear Aromatic Hydrocarbons         [775] BDATA:       [7762] SDWA Pesticides & Herbicides         [7762] SDWA VOC's II (EDB & DBCP)       [762] Chiorine Residual=mg/l         [7763] Aliphatic Hydrocarbone       [7764] Polynuclear Aromatic Hydrocarbone         [7764] Polynuclear Aromatic Hydrocarbone       [7762] SDWA Pesticides & Herbicides         [7764] Polynuclear Aromatic Hydrocarbone       [7762] SDWA Pesticides & Herbicides         [7764] Polynuclear Aromatic Hydrocarbone       [7762] SDWA Pesticides & Herbicides         [7764] Polynuclear Aromatic Hydrocarbone       [7763] Polynuclear Aromatic Hydrocarbone         [7764] Polynucl	Y P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)	LIL SNISSEVATION DIVISION
PUBGERAILS SCREEMS         EXTRACTABLE SCREEMS         (753) Aliphatic Headspace (1-5 Carbons)       (751) Aliphatic Hydrocarbons         (754) Aromatic & Halogenated Purgeables       (753) BackNetter Purgeables       (753) BackNetter Purgeables         (766) Trihalomethanes       (758) Herbicides, Triazines         (774) SDWA VOC's I (8 Regulated +)       (760) Organophorphate Pesticides         (773) SDWA VOC's II (EDB & DBCP)       (761) Organophorphate Pesticides         (775) SDWA VOC's II (EDB & DBCP)       (761) Organophorphate Pesticides         (775) SDWA VOC's II (EDB & DBCP)       (761) Organophorphate Pesticides         (775) SDWA VOC's II (EDB & DBCP)       (761) Organophorphate Pesticides         (775) SDWA VOC's II (EDB & DBCP)       (761) Organophorphate Pesticides         (776) Organophorphate Pesticides       (762) SDWA Pesticides & Herbicides         Remarks:       (762) SDWA Pesticides & Herbicides         PHELD DATA:       mg/l; Alkalinity=mg/l; Flow Rate	ANALYSES REQUESTED: Please check the appropriate box(es) below to inc	dicate the type of analytical screens
[733] Allphatic Headspace (1-5 Carbons)       [751] Allphatic Headspace (1-5 Carbons)         [754] Aromatic & Halogenated Purgeables       [751] Allphatic Hydrocarbons         [756] Mass Spectrometer Purgeables       [753] Main Extractables         [756] Mass Spectrometer Purgeables       [753] Main Extractables         [756] Mass Spectrometer Purgeables       [759] Harbicides, Chlorophenoxy acid         [760] Organophosphates       [750] Mass Spectrometer Purgeables         [776] Trialomethanes       [750] Mass Spectrometer Purgeables         [777] SDWA VOC's I (8 Regulated +)       [760] Organophosphate Pesticides         [777] SDWA VOC's II (BDB & DBCP)       [761] Polychlorinated Biphenyls (PCB's)         [778] Other Specific Compounds or Classes       [767] Polychlorinated Biphenyls (PCB's)         [779] DATA:       [760] Organophosphate Pesticides         [780] Provide Oxygen=       [761] Polychlorinated Biphenyls (PCB's)         [781] DATA:       [762] SDWA Pesticides & Herbicides         PH=: Conductivity= J	required. Whenever possible list specific compounds suspected or required.	
\[	[ (753) Aliphatic Headspace (1-5 Carbons) [ (7	EXTRACTABLE SCREENS
(765) Mass Spectrometer Purgeables          [765] Mass Spectrometer Purgeables       [753] Herbicides, Chlorophenoxy acid         [774] SDWA VOC's I (8 Regulated +)       [750] Herbicides, Triazines         [775] SDWA VOC's I (2DB & DBCP)       [760] Organochlorine Pesticides         [775] SDWA VOC's II (EDB & DBCP)       [761] Organochlorine Pesticides         [775] SDWA VOC's II (EDB & DBCP)       [761] Organochlorine Pesticides         [776] Other Specific Compounds or Classes       [767] Polychlorinated Biphenyls (PCB's)         [776] [770] SDWA VOC's II (EDB & DBCP)       [761] Organochlorine Pesticides         [771] SDWA VOC's II (EDB & DBCP)       [761] Organochlorine Pesticides         [771] SDWA VOC's II (EDB & DBCP)       [762] (761] Organochlorine Pesticides         [772] SDWA Pesticides II (EDB & DBCP)       [762] (761] Organochlorine Pesticides         [776] SDWA Pesticides II (EDB & DBCP)       [763] SDWA Pesticides II (PCB's)         [776] SDWA Pesticides II (EDB & DBCP)       [762] (761] Organochlorine Pesticides         [776] Polychlorinated Biphenyls (PCB's)       [776] Polychlorinated Biphenyls (PCB's)         [776] SDWA VOC's II (EDB & DBCP)       [776] Polychlorinated Biphenyls (PCB's)         [776] Polychlorinated Biphenyls (PCB's)       [776] Polychlorinated Biphenyls (PCB's)         [776] Polychlorinated Biphenyls (PCB's)       [776] Polychlorinated Biphenyls (PCB's)         [780] Datter Pesticides	[√] (754) Aromatic & Halogenated Purgeables	(55) Base/Neutral Extractables
[ (766) Trihalomethanes:          [ (774) SDWA VOC's I (8 Regulated +)       [ (750) Granochlorine Pesticides         [ (774) SDWA VOC's II (EDB & DBCP)       [ (761) Organochlorine Pesticides         [ (775) SDWA VOC's II (EDB & DBCP)       [ (761) Organochlorine Pesticides         [ (775) SDWA VOC's II (EDB & DBCP)       [ (761) Organochlorine Pesticides         [ (775) SDWA VOC's II (EDB & DBCP)       [ (761) Organochlorine Pesticides         [ (775) SDWA VOC's II (EDB & DBCP)       [ (761) Organochlorine Pesticides         [ (776) Organochlorine Pesticides       [ (762) SDWA Pesticides         [ (763) SDWA Pesticides       [ (764) Polynuclear Aromatic Hydrocarbons         [ (764) Polynuclear Aromatic Hydrocarbons       [ (762) SDWA Pesticides         [ (762) SDWA Pesticides & Herbicides       [ (763) SDWA Pesticides         [ (764) Polynuclear Aromatic Hydrocarbons       [ (762) SDWA Pesticides         [ (762) SDWA Pesticides       [ (763) SDWA Pesticides         [ (764) Polynuclear Aromatic Hydrocarbons       [ (762) SDWA Pesticides         [ (762) SDWA Pesticides       [ (761) Organochlorine Residual=mg/1         [ [ (761) Organochlorine Residual=mg/1       [ (762) SDWA Pesticides         [ [ (761) Organochlorine Residual=mg/1       [ (762) SDWA Pesticides         [ [ 1 ]       [ (761) Organochlorine Residual=mg/1         [ [ 1 ]       [ 1 ] <tr< td=""><td>(75) Mass Spectrometer Purgeables</td><td>58) Herbicides, Chlorophenoxy acid</td></tr<>	(75) Mass Spectrometer Purgeables	58) Herbicides, Chlorophenoxy acid
[ (774) SDWA VOC's I (8 Regulated +) [ (775) SDWA VOC's II (EDB & DBCP) Other Specific Compounds or Classes [ (776) Organophophate Pesticides [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Organophophate Pesticides [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Organophophate Pesticides [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Organophophate Pesticides [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Organophophate Pesticides [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Organophophate Pesticides [ (776) Polychlorinated Biphenyls (PCB's) [ (776) Organophophate Pesticides [ (776) Organophophate Pesticides [ (776) Polychlorinated Biphenyls (PCB's) [ (761) Polychlorinated Biphenyls (PCB's) [ (762) SDWA Pesticides # [ (761) Polychlorinated Biphenyls (PCB's) [ (762) Polychlorinated Biphenyls (PCB's) [ (762) Polychlorinated Biphenyls (PCB's) [ (762) Polychlorinated Biphenyls (PCB's) [ [ (761) Polychlorinated Biphenyls (PCB's) [ [ (760) Polychlorin	(766) Trihalomethanes (7	59) Herbicides, Triazines
[ (775) SDWA VOC's II (EDB & DBCP)          Other Specific Compounds or Classes       [ (761) Organophosphate Pasticides         [ (775) Polychlorinated Biphenyls (PCB's)         [ (776) Polychlorinated Biphenyls (PCB's)         [ [ (771) Classing (PCB's)]         [ [ (781) Classing (PCB's)]         [ [ [ (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	(774) SDWA VOC's I (8 Regulated +)	60) Organochlorine Pesticides
Other Specific Compounds or Classes       [767] Polychlorinated Biphenyls (PCB's)         [761] Polychlorinated Biphenyls (PCB's)         [762] SDWA Pesticides & Herbicides         Remarks:       [762] SDWA Pesticides & Herbicides         PH=; Conductivity=       [] [767] Polychlorinated Biphenyls (PCB's)         [] [762] SDWA Pesticides & Herbicides         Remarks:       [] [762] SDWA Pesticides & Herbicides         PH=; Conductivity=       [] [] [] [] [] [] [] [] [] [] [] [] [] [	(775) SDWA VOC'S II (EDB & DBCP)	61) Organophosphate Pesticides
□	Other Specific Compounds or Classes	67) Polychlorinated Biphenyls (PCB's)
Remarks:		64) Polynuclear Aromatic Hydrocarbons 62) SDWA Pesticides & Herbicides
Remarks:         FIELD DATA:         pH=; Conductivity=       C; Chlorine Residual=mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate         Depth to water 19.8 ft.; Depth of well 28.1 ft.; Perforation Intervalft.; Casing:         Sampling Location, Methods and Remarks (i.e. odors, etc.)         MW#L, T-N - T Diapation [Interval]         I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):         I certify that this sample was transferred from Method of Shipment to the Lab: Table (CHAIN OP CUSTODY         I certify that this sample was transferred from to         at (location)		
FIELD DATA:         pH=; Conductivity=       Dumho/cm at / D_ °C; Chlorine Residual=mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate/         Depth to water / D.B ft.; Depth of well DE, / ft.; Perforation Interval ft.; Casing:         Sampling Location, Methods and Remarks (i.e. odors, etc.)         M W # G T - M - T DAPD focl, Lindbudy         I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):         M GENERODY         I certify that this sample was transferred from Method of Shipment to the Lab: State of the results of my field analyses, observations and that the statements in this block are correct. Evidentiary Seals: Not Sealed [] OR Seals Intact: Yes [] No []		
FIELD DATA:         pH=; Conductivity=       Wumho/cm at / 2 °C; Chlorine Residual=mg/l         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate/         Depth to water 17.8 ft.; Depth of well 28.1 ft.; Perforation Intervalft.; Casing:         Sampling Location, Methods and Remarks (i.e. odors, etc.)         MW # 6       T - N - T A Apagol, Unidentify         I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):         CHAIN OF CUSTODY         I certify that this sample was transferred from to         at (location) on	LEINAFR8:	
pH=; Conductivity= <u>A</u> umho/cm at <u>A</u> C; Chlorine Residual=mg/1 Dissolved Oxygen=mg/1; Alkalinity=mg/1; Flow Rate Depth to water <u>17.8</u> ft.; Depth of well <u>B</u> , ft.; Perforation Interval ft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) <u>MW # A</u> <u>T M - T <u>B</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u></u>		
Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water <u>17.8</u> ft.; Depth of well <u>38.1</u> ft.; Perforation Interval ft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) <u>MW#6</u> , <u>T-N-T</u> <u>BiApaffel</u> , <u>UMBRUM4</u> I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): <u>Raccondectory</u> Method of Shipment to the Lab: <u>State Condectory</u> I certify that this sample was transferred from on to and that the statements in this block are correct. Evidentiary Seals: Not Sealed <u>OR</u> Seals Intact: Yes <u>No</u>	FIELD DATA:	
Depth to water <u>19.8</u> ft.; Depth of well <u>28.1</u> ft.; Perforation Interval ft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) <u>MW#6</u> , <u>T-M-T</u> <u>BiAP3400</u> , <u>UMB200444</u> I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): <u>AB244</u> CHAIN OF CUSTODY I certify that this sample was transferred from to at (location) on to and that the statements in this block are correct. Evidentiary Seals: Not Sealed OR Seals Intact: Yes No	<b>FIELD DATA:</b> pH=; Conductivity= $H$ umho/cm at $/$ C; Chlorine Residu	1al=mg/l
Sampling Location, Methods and Remarks (i.e. odors, etc.) MW#6, T-N-T DiApayol, Unidentify I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): CHAIN OF CUSTODY I certify that this sample was transferred from to at (location) on and that the statements in this block are correct. Evidentiary Seals: Not Sealed OR Seals Intact: Yes No	PIELD DATA: pH=; Conductivity=HQUumho/cm at / Q_ °C; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate	ial=mg/l
MW#6, T-N-T Disp3fool, Unidendify I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):	FIELD DATA: pH=; Conductivity= $\mathcal{H}\mathcal{K}$ umho/cm at $/\mathcal{L}^{\circ}$ C; Chlorine Residu Dissolved Oxygen=mg/1; Alkalinity=mg/1; Flow Rate Depth to water $\underline{17.8}$ ft.; Depth of well $\underline{\mathcal{H}.1}$ ft.; Perforation Interval	al=mg/l / ft.; Casing:
I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):	<b>FIELD DATA:</b> $pH=$ ; Conductivity= $\mathcal{H}\mathcal{H}$ umho/cm at $\mathcal{I}\mathcal{H}^{\circ}C$ ; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water $\mathcal{I}\mathcal{T}\mathcal{B}_{ft}$ ; Depth of well $\mathcal{B}\mathcal{I}_{ft}$ ; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.)	ual=mg/l ft.; Casing:
I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):	FIELD DATA: pH=; Conductivity= $\underline{\mathcal{H}}$ umho/cm at $\underline{/ }$ °C; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water $\underline{/7.8}$ ft.; Depth of well $\underline{\mathcal{B}}, \underline{/}$ ft.; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.) $M(\mu)$ $\underline{\#}$ $( \overline{/}$ $M$ $ \overline{/}$ $A(\mathcal{A}\mathcal{B}\mathcal{H}, \mathcal{O})$	ial=mg/l / ft.; Casing:
I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector):	<b>FIELD DATA:</b> pH=; Conductivity= $\mathcal{H}\mathcal{L}$ umho/cm at $\mathcal{I}\mathcal{L}^{\circ}$ C; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water $\mathcal{I}\overline{\mathcal{I}}\mathcal{B}$ ft.; Depth of well $\mathcal{B}\mathcal{B}\mathcal{I}$ ft.; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.) $\mathcal{M}\mathcal{W}\mathcal{H}\mathcal{L}\mathcal{I}\mathcal{M}\mathcal{V}\mathcal{I}\mathcal{L}$	ual=mg/l 
activities.(signature collector):	<b>FIELD DATA:</b> pH=; Conductivity= $\underline{\mathcal{H}}$ umho/cm at $\underline{/}$ °C; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water $\underline{/7.8}$ ft.; Depth of well $\underline{\mathcal{B}}, \underline{/}$ ft.; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.) $\underline{\mathcal{M}}$ $\underline{\mathcal{H}}$ $\underline{\mathcal{H}}$ $\underline{\mathcal{T}}$ $\underline{\mathcal{N}}$ $ \underline{\mathcal{T}}$ $\underline{\mathcal{A}}$ $\underline{\mathcal{A}}$ $\underline{\mathcal{A}}$ $\underline{\mathcal{A}}$ $\underline{\mathcal{A}}$	ial=mg/l / ft.; Casing: Indrully
CHAIN OF CUSTODY I certify that this sample was transferred from to	FIELD DATA: pH=; Conductivity= $\mathcal{H}$ umho/cm at $/\mathcal{L}$ °C; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water $/7.8$ ft.; Depth of well $\mathcal{B}_{2}/f$ ft.; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.) $\mathcal{M}\mathcal{W}\mathcal{H}\mathcal{L}\mathcal{J}\mathcal{M}\mathcal{V}\mathcal{I}\mathcal{I}$ I certify that the results in this block accurately reflect the results of my re	field analyses, observations and
I certify that this sample was transferred from to at (location) on/ and that the statements in this block are correct. Evidentiary Seals: Not SealedOR_Seals Intact: Yes No Signatures'	<b>FIELD DATA:</b> pH=; Conductivity= $\underline{\mathcal{H}}$ umho/cm at $\underline{\mathcal{I}}$ <sup>o</sup> C; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water $\underline{\mathcal{I7}}$ . $\underline{\mathcal{B}}$ ft.; Depth of well $\underline{\mathcal{B}}$ , $\underline{\mathcal{I}}$ ft.; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.) $\underline{\mathcal{M}}$ . $\underline{\mathcal{H}}$ . $\underline{\mathcal{I}}$ . $\mathcal{I$	field analyses, observations and hod of Shipment to the Lab:
at (location) on and that the statements in this block are correct. Evidentiary Seals: Not Sealed OR Seals Intact: Yes No Signatures'	<b>FIELD DATA:</b> pH=; Conductivity= $H$ umho/cm at $f$ °C; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water $f$ 8 ft.; Depth of well $H$ , ft.; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.) MWH, $f$ $H$ $f$ $H$ $HI certify that the results in this block accurately reflect the results of my isactivities.(signature collector): H H HCHAIN OF CUSTODY$	field analyses, observations and hod of Shipment to the Lab: <u>Martic</u>
the statements in this block are correct. Evidentiary Seals: Not Sealed OR Seals Intact: Yes No	<b>FIELD DATA:</b> pH=; Conductivity= $\underline{\mathcal{H}}$ umho/cm at $\underline{\mathcal{I}}$ °C; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water $\underline{\mathcal{I}}$ ft.; Depth of well $\underline{\mathcal{B}}$ , [ft.; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.) $\underline{\mathcal{M}}$ $\underline{\mathcal{H}}$ $\underline{\mathcal{I}}$ $$	to
Signatures'	Tremarks:         FIELD DATA:         pH=; Conductivity=       Wumho/cm at /2 °C; Chlorine Residu         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate         Depth to water 17.8 ft.; Depth of well 28.1 ft.; Perforation Interval         Sampling Location, Methods and Remarks (i.e. odors, etc.)         MW#6, T-M - T Diapation Interval         I certify that the results in this block accurately reflect the results of my activities.(signature collector):         Karp         More CUSTOD Y         I certify that this sample was transferred from	to and that
) ) )	FIELD DATA:         pH=; Conductivity=       Depth umho/cm at / 2 °C; Chlorine Residu         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate         Depth to water /7.8 ft.; Depth of well       Depth ft.; Perforation Interval         Sampling Location, Methods and Remarks (i.e. odors, etc.)	ial=mg/l  ft.; Casing:    field analyses, observations and hod of Shipment to the Lab: <u>State (</u> 
• •	FIELD DATA: pH=; Conductivity= $\underline{\mathcal{H}}$ umho/cm at $\underline{\mathcal{I}}^{\circ}_{\circ}^{\circ}$ C; Chlorine Residu Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate Depth to water $\underline{\mathcal{I}}_{\circ}^{\circ}$ S ft.; Depth of well $\underline{\mathcal{I}}_{\circ}^{\circ}$ /ft.; Perforation Interval Sampling Location, Methods and Remarks (i.e. odors, etc.) $\underline{\mathcal{M}}_{\circ}$ $\underline{\mathcal{H}}_{\circ}$ / $\underline{\mathcal{I}}_{\circ}$ $\underline{\mathcal{H}}_{\circ}$ $\underline{\mathcal{H}}_{\circ}^{\circ}$ / $\underline{\mathcal{I}}_{\circ}^{\circ}$ I certify that the results in this block accurately reflect the results of my is activities.(signature collector): $\underline{\mathcal{H}}_{\circ}$ $\underline{\mathcal{H}}_{\circ}^{\circ}$ / $\underline{\mathcal{H}}_{\circ}^{\circ}$ I certify that this sample was transferred from at (location) on Chain of custock are correct. Evidentiary Seals: Not Sealed Simplify the statements in this block are correct. Evidentiary Seals: Not Sealed Simplify the statements in this block are correct. Evidentiary Seals: Not Sealed Simplify the statement is the statement in the block are correct. Evidentiary Seals: Not Sealed Simplify the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in the statement is the statement in the statement in t	ial=mg/l ft.; Casing: <i>IMMMMy</i> field analyses, observations and hod of Shipment to the Lab: <u>State C</u> to to and that <u>OR</u> Seals Intact: Yes [] No []
	FIELD DATA:         pH=; Conductivity=      Qumho/cm at /C; Chlorine Residu         Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate         Depth to water /7.8 ft.; Depth of wellft.; Perforation Interval         Sampling Location, Methods and Remarks (i.e. odors, etc.)         MW#6, T-M - T Bispardic Line         I certify that the results in this block accurately reflect the results of my is activities.(signature collector):         About CHAIN OF CUSTODY         I certify that this sample was transferred from	ial=mg/l ft.; Casing: <i>Indrully</i> field analyses, observations and hod of Shipment to the Lab: <u>State C</u> to to and that <u>OR</u> Seals Intact: Yes [] No []
ANALYSES PERFORMED	LAB. No.: OR- 1497	
--	--	
THIS PAGE F	OR LABORATORY RESETS ONLY	
This sample was tested using the analytical screening	method(s) checked below:	
PURGEABLE SCREENS         (753) Aliphatic Headspace (1-5 Carbons)         (754) Aromatic & Halogenated Purgeables         (765) Mass Spectrometer Purgeables         (766) Trihalomethanes         (774) SDWA VOC's I (8 Regulated +)         (775) SDWA VOC's II (EDB & DBCP)         Other Specific Compounds or Classes	EXTRACTABLE SCREENS         (751) Aliphatic Hydrocarbons         (755) Base/Neutral Extractables         (758) Herbicides, Chlorophenoxy acid         (759) Herbicides, Triazines         (760) Organochlorine Pesticides         (761) Organophosphate Pesticides         (767) Polychlorinated Biphenyls (PCB's)         (764) Polynuclear Aromatic Hydrocarbons         (762) SDWA Pesticides & Herbicides	
· COMPOUND(S) DETECTED C	ONC. COMPOUND(S) DETECTED CONC.	
$\frac{n_{matc}}{n_{a}} \frac{n_{a}}{n_{a}} \frac{n_{a}}{$	$\frac{pp_{B}}{1/2}$ $\frac{p_{B}}{1/2}$ $\frac{p_{B}}{1/$	
LABORATORY REMARKS:		
CERTIFICATE of Seal(s) Not Sealed Intact: Yes No Seal( I certify that I followed standard laboratory procedures of that the statements on this page accurately reflect the a Date(s) of analysis: <u>9/16/88</u> . Analyst's signatu I certify that I have reviewed and concur with the anal	OF ANALYTICAL PERSONNEL (s) broken by: date: on handling and analysis of this sample unless otherwise noted and analytical results for this sample. ure: lytical results for this sample and with the statements in this block.	
Reviewers signature: <u>K Meyerhein</u>		

New Mexico Hea SCIENTIFIC LAI 700 Camino de S Albuquerque, Ni	alth and Engliment Department BORATORY ISION Balud NE M 87106 — (505) 841-2555	GER AND GER and N	AL WATER CHEMISTRY NTROGEN ANALYSIS
Collection TIME	AB UC 3688 USER 5930	0 <u>59600</u> X OTHER: -N-T Luza	82235 Prith MW #6
Collected by - Person/Agency ENVIRONMEN END NM OIL CON INAL State Land CO Santa Fe, Attn:David_BO	/OCD TAL BUREAU SERVATION DIVISION Office Bldg, PO Box 208 NM 87504-2088 yer	NOV 2 2 1988 OIL CONSERVATION DIVIS SANTA FE	DEN 241 021
Phone: 827-58	19.8	Well Code Owner	· ~ //, 500, 8.51
A balleo         Imp           Imp         Imp           Imp </td <td>Conductivity (Uncorrected)</td> <td>Water Temp. (00010)</td> <td>Conductivity at 25°C (00094)</td>	Conductivity (Uncorrected)	Water Temp. (00010)	Conductivity at 25°C (00094)
AMPLE FIELD TREATMEN	T — Check proper boxesF:Whole sample (Non-filtered) $\Box$ F:Filtered in 0.45 $\mu$ meOther-specify: $\Box$ A:n SAMPLES	field with mbrane filter <b>A</b> : 2 ml H <sub>2</sub> 5ml conc. HNO <sub>3</sub> added	SO₄/Ladded □A: 4ml fuming HNO <sub>3</sub> addec
Conductivity (Corrected) 25°C (00095)	$\frac{1}{3698} \mu \text{mho} = \frac{9/19}{19}$	From <u>//</u> , NA Sa - [] Calcium	mple: Date <u>Analyzed</u> <u>36 mg/l</u>
residue (suspended) (00530) ☆_Other: ↓	mg/l 	Potassium2 Magnesium2 Sodium2 KBicarbonate	$\frac{4 \text{ mg/1} \text{ 10}[7]}{27.5 \text{ mg/1} \text{ 10}[12]}$ $\frac{855 \text{ mg/1} \text{ 10}[7]}{856 \text{ mg/1} \text{ 10}[7]}$
A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N () Chemical oxygen demand (00340) Total experies eacher	mg/l mg/l mg/l mg/l	Chloride Sulfate X Total Solids X CO X Rh	<u>38.9 mg/1 9/20</u> <u>1160 mg/1 9/20</u> <u>2802 mg/1 9/20</u> <u>18.1 11/7</u> <u>1098 Mg/L 9/22</u>
Other:     Other:     Laboratory remarks	- Report CI, SQ4, 7	Analyst AS by phone	Balance Date Reported Reviewed by 11 14 38
FOR OCD USE Date	Dwner Notified	Phone of Letter?	Initals

	CATIONS				ANIONS		
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca Mg Na K	1.80 2.26 37.19 0.10	36.00 27.50 855.00 4.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	14.11 24.17 1.10	861.00 1160.00 38.90	<1.0 <10.0 <5.0
Mn Fe	0.00 0.00	0.00 0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	41.35	922.50			39.37	2059.90	
Total I Ion Bal	)issolved ance =	Solids= 105.01%	2802	WC Date o	No. ut/By	= 8.803688 CU11/14/843	/ _

. •••

New Mexico Health and Environment Department SCIENTIFIC LABORATOR 700 Camino de Salud NE Albuquerque, NM 87106	HEAVY ETAL ANALYSIS FORM Telephone: (505)841-2553
Date Received 2158 Lab No. CAP 422 Code COLLECTION DATE & TIME: YY mm dd hh 28691216	$\begin{array}{c cccc} & & & & & & \square & Other: \\ \hline mm & & & & \\ \hline mm & & & & \\ \hline S & & & & \\ \hline M & & & & \\ \hline M & & & & \\ \hline \end{array} \begin{array}{c} & & & & \\ \hline M & & & \\ \hline \end{array} \begin{array}{c} & & & & \\ \hline \end{array} \begin{array}{c} & & & & \\ \hline \end{array} \begin{array}{c} & & \\ \end{array} \begin{array}{c} & & \\ \end{array} \begin{array}{c} & & \\ \hline \end{array} \begin{array}{c} & & \\ \end{array} \end{array} \begin{array}{c} & & \\ \end{array} \begin{array}{c} & & \\ \end{array} \begin{array}{c} & & \\ \end{array} \end{array}{} \begin{array}{c} & & \\ \end{array} \end{array}{} \begin{array}{c} & & \\ \end{array} \begin{array}{c} & & \\ \end{array} \end{array}{} \begin{array}{c} & & \\ \end{array} \end{array}{} \begin{array}{c} & & \\ \end{array} \end{array}{} \end{array}{} \begin{array}{c} & & \\ \end{array} \end{array}{} \end{array}{} \begin{array}{c} & & \\ \end{array} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \begin{array}{c} & & \\ \end{array} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}{} \end{array}$
COLLECTED BY: Boyy OCK	- Linder the
TO:	OWNER:
ENVIRONMENTAL BUREAU NM OIL CONSERVATION DIVISION State Land Office Bldg., PO Box 20 SANTA FE, NM 87504-2088	188 Township, Range, Section, Tract: (10N06E24342)
ATTN: <u>D. Boyer</u> TELEPHONE: 827-5812 STATI	
- LATITUDE, LONG	;ITODE:
Bailed Dump Water Level:	Discharge: Sample Type:
pH(00400) Conductivity (Uncorr.) Wate	$r \text{ Temp.}(00010)   \text{ Conductivity at } 25^{\circ}\text{C}   (00094)   (00094)   Umbo$
FIELD COMMENTS:	
SAMPLE FIELD TREATMENT Check proper boxes:	LAB ANALYSIS REQUESTED:
Ø'WPN: WaterIWPF: WaterPreserved w/HNO3Preserved w/HNO3Preserved w/HNO3Non-FilteredFiltered	X ICAP Scan Mark box next to metal if AA is required.
ANALYTICAL RE	SULTS (MG/L)
ELEMENTICAP VALUEAA VALUEAluminum $2.0$	ELEMENT       ICAP VALUE       AA VALUE         Silicon       3.9
For OCD Use:	
Date Owner Notified: 22/28 ICAP An Phone or Letter? Date Ar Initials: 27/3 Date Ar	halyst AA Reviewer Alehby halyzed 10/12/88 Date Reveived 10/18/88

15 upu	SCIENTIFIC LABORATORY DIVION - STATE OF NEW ME 700 Camino de Salud NE Albuquerque, NM 87106 841-2570
EPORT TO:	David Boyer S.L.D. No. OR-
	N.M. Oil Conservation Division DATE BEC 10-30-87
	P. 0. Box 2088
	Senta Fe. N.M. 87504-2088
	227-5812 3.2.2.3.5.
HONE(S):	USER CODE: 0 2 2 3 3
UBMITTER:	CODE: 12 6 0
AMPLE COLLE	TION CODE: (YYMMDDHHMMIII) $871/01261/17001 981$
AMPLE TYPE:	WATER X, SOIL , FOOD , OTHER: CODE:
OUNTY: 10	ARRIBA ; CITY: LINDRITH CODE:
CATION CODI	2: (Township-Range-Section-Tracts) + + + (10N06E24342)
NALYSES REQ	<b>UESTED</b> : Please check the appropriate box(es) below to indicate the type of analytical screens
quired. Wheneve	r possible list specific compounds suspected or required.
] (753) Aliohat	ic Purgeables (1-3 Carbons)
(754) Aromat	ic & Halogenated Purgeables (760) Organochlorine Pesticides
↑ (765) Mass S	pectrometer Purgeables (755) Base/Neutral Extractables
(766) Trihalo Other	methanes [] (758) Herbicides, Chlorophenoxy acid
7	(755) Revolution of Classes
]	[] (761) Organophosphate Pesticides
]	(767) Polychlorinated Biphenyls (PCB's)
	(764) Polynuclear Aromatic Hydrocarbons
1=; Con	aductivity=umho/cm atC; Chlorine Residual=mg/l
analyzed American	
ssolved Oxygen:	=mg/l; Alkalinity=mg/l; Flow Rate/
epth to water	=mg/l; Alkalinity=mg/l; Flow Rate/
mpling Location	=mg/l; Alkalinity=mg/l; Flow Rate/
mpling Location	=mg/l; Alkalinity=mg/l; Flow Rate/
epth to water	=mg/l; Alkalinity=mg/l; Flow Rateft.; Depth of wellft.; Perforation Intervalft.; Casing: i, Methods and Remarks (i.e. odors, etc.) $=fVT$ $= ENE MIB WELL (MW #7(P) WCR)$
epth to water mpling Location certify that the	mg/l; Alkalinity=mg/l; Flow Rate ft.; Depth of wellft.; Perforation Intervalft.; Casing: Methods and Remarks (i.e. odors, etc.) MT ENE MID WELL (MUI #7(P) DCR) results in this block accurately reflect the results of my field analyses, observations and
epth to water mpling Location certify that the tivities.(signature	=mg/l; Alkalinity=mg/l; Flow Rateft.; Depth of wellft.; Perforation Intervalft.; Casing:ft.; Depth of wellft.; Perforation Intervalft.; Casing:, Methods and Remarks (i.e. odors, etc.)ft.; Depth of wellft.; Casing:ft.; Casing:ft.; Casing:ft.; Depth of wellft.; Perforation Intervalft.; Casing:ft.; Casi
epth to water mpling Location certify that the tivities (signature is form accomp mples were pre	=mg/l; Alkalinity=mg/l; Flow Rateft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Casing:  ft.; Casing: ft.; Casing: ft.; Casing:   ft.; Casing:  ft.; Casing:  ft.; Casing:            
certify that the tivities (signature imples were pre NP:	mg/l; Alkalinity=mg/l; Flow Rateft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Depth of wellft.; Perforation Intervalft.; Casing: , Methods and Remarks (i.e. odors, etc.) <i>TNT</i> <i>ENEft. DECCft. QCP</i> <i>e results in this block accurately reflect the results of my field analyses, observations and</i> <i>e collector</i> ): <i>e collector</i> ): <i>banies</i> Glass Jugs, and/or <i>served as follows:</i> No Preservation; Sample stored at room temperature.
certify that the tivities (signatur- mples were pre NP: P-ICe	mg/l; Alkalinity=mg/l; Flow Rateft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Depth of wellft.; Perforation Intervalft.; Casing: , Methods and Remarks (i.e. odors, etc.) MT ENE MID WELL (MW #7(P) WCB) results in this block accurately reflect the results of my field analyses, observations and s collector): banies Septum Vials, Glass Jugs, and/or served as follows: No Preservation; Sample stored at room temperature. Sample stored in an ice bath (Not Frozen).
certify that the tivities (signature imples were pre NP: P-Ice P-Na S 0 ILAIN OF CUS	mg/l; Alkalinity= mg/l; Flow Rate
epth to water ampling Location certify that the tivities (signature his form accomp amples were pre NP: P-Ice P-Ice P-Ice P-Na S 0 <b>ILAIN OF CUS</b> certify that thi	mg/l; Alkalinity=mg/l; Flow Rate ft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Casing:
epth to water epth to water impling Location certify that the tivities (signatur- ins form accomp imples were pre NP: P-Ice P-Na S O <b>TAIN OF</b> CUS certify that thi (location)	mg/l; Alkalinity=mg/l; Flow Rateft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Depth of well
epth to water epth to water ampling Location certify that the tivities.(signature his form accomp samples were pre NP: P-Ice P-Ice P-Na S 0 <b>ILAIN OF CUS</b> certify that thi (location)	mg/l; Alkalinity=mg/l; Flow Rateft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Depth of wellft.; Perforation Interval
epth to water ampling Location certify that the tivities.(signatur- his form accomp amples were pre NP: P-Ice P-Ice P-Na S 0 <b>TIAIN OF CUS</b> certify that this (location) e statements in gnatures	mg/l; Alkalinity=mg/l; Flow Rateft.; Casing:ft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Depth of wellft.; Perforation Intervalft.; Casing: ft.; Casing:

-

#### ANALYSES PERFORMED

LAB. No.: OR- /7/7

THIS PAGE FOR LABORATORY RESULTS ONLY This sample was tested using the analytical screening method(s) checked below: EXTRACTABLE SCREENS PURGEABLE 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 (759) Herbicides, Triazines Other Specific Compounds or Classes (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides ANALYTICAL RESULTS CONC. COMPOUND(S) DETECTED CONC. COMPOUND(S) DETECTED [PPB] [PPB] ¥ AUSALA 152 Ansonkli N.D  $\mathbf{X}$ 4916 \* DETECTION LIMIT \* 50 17/2 + DETECTION LIMIT + ABBREVIATIONS USED: N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED) [ RESULTS IN BRACKETS ] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION LABORATORY REMARKS: CERTIFICATE OF ANALYTICAL PERSONNEL Seal(s) Intact: Yes No Z. Seal(s) broken by: not sealed \_\_\_\_ date: I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample. i certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block. Reviewers signature: K Meyerhern

	New Mexico Hea SCIENTIFIC LAB 700 Camino de S Albuquerque, NM	Ith and Environment ORATORY DO alud NE 1 87106 — (505) 841-	t Department <sub>.</sub> N -2555	WNN 859	GENSAL V and NITR	VATER CHEMISTRY OGEN ANALYSIS
DATE RECEIVED /0	130187 N	5. WC. 4946		o □ <u>59600</u> 🖄	X OTHER: 822	235
Collection DATE 10 26 87 Collection TIME		SITE	Sample location	TNT		
Collected by - Person/A	gency Roll		Collection site description	ENE	e mis	WELL
SEND FINAL REPORT TO Attn:	ENVIRONMENT M OIL CONS State Land Santa Fe, M David Boy	AL BUREAU SERVATION DI Office Bldg M 87504-208 /er	VISION , PO Box 2088	8	Station/ well code	
SAMPLING CO	NDITIONS	1.			Owner	
Bailed	Pump Tap	Water level		Discharge		Sample type
pH (00400)		Conductivity (Unc	orrected) µmho	Water Temp. (00010)	°C	Conductivity at 25°C (00094) µmho
SAMPLE FIELD No. of samples		<b>F — Check prop</b>	er boxes	field with	2 m H SO /	
NA: No aci ANALYTICAL R NA Conductivity (C 25°C (00095)	d added   _ C	Dther- <i>specify:</i> SAMPLES 351ど	$\Box A:$ Units Date analyzed $\mu mho \underline{12/5}$	5ml conc. HNO <sub>3</sub>	added A , NA Sample Hei (0 Z0.8	A: 4ml fuming HNO <sub>3</sub> added : Date & <u>Analyzed</u> mg/1
residue (susper (00530) Other: Other: Other:	nded) 		. mg/l	_ X Potassium _ X Magnesium - X Sodium _ - X Bicarbona		5/ mg/1_12/18 7 mg/1 mg/1_12_18 mg/12/14
<ul> <li>Nitrate-N +, Nit total (00630)</li> <li>Ammonia-N tot</li> </ul>	al (00610)		. mg/l	Chloride Description Chloride Sulfate Total Sol	<u></u>	mg/1 <u>rz/w</u> mg/1 <u>rz/w</u>
<ul> <li>Total Kjeldahl-N</li> <li>( )</li> <li>Chemical oxyg demand (00340</li> </ul>	en D)		. mg/l		5	ng/d
<ul> <li>Total organic ca ( )</li> <li>Other:</li> <li>Other:</li> </ul>	arbon 		. mg/i	Analyst	Anion Ba	lance
Laboratory remark	S					

	CATIONS		DET.		ANIONS		DET.
ANALYTE	MEQ.	PPM	LIMIT	ANALYTE	MEQ.	PPM	LIMIT
Ca Mg Na K	1.04 1.13 41.10 0.09	20.80 13.70 945.00 3.51	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	14.86 23.75 0.86	907.00 1140.00 30.4	<1.0 <10.0 <5.0
Mn Fe	0.00 0.00	0.00 0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	43.36	983.01			39.47	2077.40	
Total I Ion Bal	issolved ance =	Solids= 109.85%	2552	WC Date c	C No. out/By	= 8704946 CQ 12/7.1/87	-

\*, ?\*

•

i

10	Albuquerque, NM 8	7106 841-2570 97_ 171A	-C -
PORT TO:	David Boyer	0/- 1/ 14 S.L.D. No. OR	-U
	N.M. Oil Conservation Division	DATE REC. 10.30-	87
	P. O. Box 2088		
	Santa Fe, N.M. 87504-2088	PRIORITY .3	
IONE(S):	327-5812	USER CODE: 13 12 12 13 5	
BMITTER:	David Boyer	$\frac{1}{10000000000000000000000000000000000$	
MPLE COLLE	CTION CODE: (YYMMDDHHMMIII)   517	1/10/2/6/17/10/ FTS 1	
MPLE TYPE:	WATER T SOIL FOOD T OTHER		
UNTY CIO	ARRIGE CITY LADR		
CATION COD	E: (Townshin-Bonge-Section-Tracts)		2421
LAL VERS DEC	TECTED: Blace shell the eppropriate hover		5421
uired. Whenev	ver possible list specific compounds suspected of	r required.	
	PURGEABLE SCREENS	EXTRACTABLE SCREENS	
(753) Alipha 7 (754) Aroma	tic Purgeables (1-3 Garbons) tic & Halogenated Purgeables	[_] (751) Aliphatic Hydrocarbons [] (760) Organochlorine Pesticides	
] (765) Mass	Spectrometer Purgeables	(755) Base/Neutral Extractables	
] (766) Trihal	omethanes	(758) Herbicides, Chlorophenoxy acid	
Other	· Specific Compounds or Classes	(759) Herbicides, Triazines	
		[_] (760) Organochlorine Pesticides	
-1 ]		[] (767) Polychlorinated Binhenvis (PCB's)	
]		(764) Polynuclear Aromatic Hydrocarbons	
]	· · · · · · · · · · · · · · · · · · ·	(762) SDWA Pesticides & Herbicides	$\sim$
marks:	TNT N CENT. 1	nw (MW #98) DX1	< )
		÷	$\mathcal{T}$
ELD DATA			
	andustivity who are considered	Name Preiducter mar (1	
·; 0:	$\frac{1}{2} = \frac{1}{2} = \frac{1}$	morine residual=mg/i	
ssolved Oxygen	n=mg/l; Alkalinity=mg/l; flow	Rate	
pth to water	ft.; Depth of wellft.; Perforation	on Intervalft.; Casing:	
mpling Locatio	on, Methods and Remarks (i.e. odors, etc.)		
····			
certify that th	ne results in this block accurately reflect the r	esults of my field analyses, observations and	
tivities.(signatu:	re collector):	Method of Shipment to the Lab:	
nis form accom	npanies Septúm Vials, Glass Jug	s, and/or	
mpies were pr 김 NP:	No Preservation: Sample stored at room tem	Derature	
P-Ice	Sample stored in an ice bath (Not Frozen).		$H/\pi$
$P-Na_2S_2O_3$	Sample Preserved with Sodium Thiosulfate to	remove chlorine residual.	
IAIN OF CU	STOD Y	CILLER CONTRACTOR	
certify that th	nis sample was transferred from	to	<u>)</u> ,
(location)		on\\ and thi	t
	n this block are correct. Evidentiary Seals: No	t Sealed Seals Intact: Yes	
e statements i			

### ANALYSES PERFORMED

LAB.	No.:	OR-	1219

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screen	ing 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)	
	<u></u>	🔲 (764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
AN	ALYTICA	L RESULTS	
COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
aromatic surmeables *			
E A 7	110		
(acelosul ] t	660		
balance to I surger Ale &	N.D.		
- marginaria purglainer n	10 (12 -	· · · · · · · · · · · · · · · · · · ·	
• DETECTION LIMIT • X	1049/2	+ DETECTION LIMIT +	500 78/2
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 UNCONFI	IRMED AND/C	DR WITH APPROXIMATE QUANTITATION	
	-,-		
LABORATORY REMARKS:			
	•		
······································			
CERTIFICAT	E OF ANALY	TICAL PERSONNEL	
Seal(s) Intact: Yes No Yes Seal(s) broken by	: not	sealed date:	
I certify that I followed standard laboratory procedur	es on handling	and analysis of this sample unless otherwise noted	and
that the statements on this page accurately reflect th	ne analytical re	esults for this sample.	
Date(s) of analysis: 11/3/87. Analyst's sig	nature:	Harry L. Eden	<u> </u>
I certify that I have reviewed and concur with the	analytical resul	ts $\mathscr{G}$ r this sample and with the statements in this	block.
Reviewers signature: <u>KMeyenhelm</u>	······································		
······································			

DATE AL	Albuquerque, NM	alud NE 4 87106 — (505) 84	nt Department ON 1-2555	$\mathcal{S}$	and NITR	VATER CHEMISTRY OGEN ANALYSIS	
HECEIVED         /0           collection DATE         10         2.6         8.7           collection TIME         1.7         0         0	<u>20 8 / INC</u>	SITE INFORM- ATION	CODE 5930	0 <u>59600</u> <u>m</u> c <u>TNT</u>	JTHER: 027		
ollected by - Person/Ag	ency 1 BAILE	Y /0CD		N. CENT. 1	MONITO	OR WELL	
END N INAL S O S Attn: _ Phone	NVIRONMENT M OIL CONS tate Land anta Fe, M David Boy e: 827-58	AL BUREAU SERVATION D Office Bld VM 87504-20 Ver	IVISION g, PO Box 208 88	8	Station/ well code		
AMPLING CON	DITIONS				Owner		
Savar Sailed □ □ Dipped □	☐ Pump □ Tap	Water level		Discharge		Sample type	
pH (00400)		Conductivity (Un	corrected) µmho	Water Temp. (00010)	°C	Conductivity at 25°C (00094	<sup>i)</sup> μmhc
NALYTICAL RI	ESULTS from	SAMPLES					
2590 (00005)	orrected)	859	Units Date analyze	From <u>NF</u> ,	NA Sample	: Date Analyzed	
<ul> <li>25 °C (00095)</li> <li>Total non-filterat residue (suspen (00530)</li> </ul>	orrected)  ble ided)	859	<u>Units Date analyze</u> _µmho <u>12/5</u> - _ mg/l	From <u>NF</u> , Calcium Potassium _	NA Sample Hd 70 19.72 3.13	mg/1 12/18	
<ul> <li>25 °C (00095)</li> <li>Total non-filterativesidue (suspen (00530))</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> </ul>	orrected)  ided) 	859	Units Date analyze _μmho/ 2/5- mg/l	d From <u>M</u> F, Calcium	NA Sample µd 70 <u>19.7</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.10</u> <u>3.1</u>	Date <u>Analyzed</u> mg/1 12/18     mg/1 12/18     mg/1 12/18     mg/1 12/18     mg/1 12/14	
<ul> <li>25 °C (00095)</li> <li>☐ Total non-filterat residue (suspen (00530)</li> <li>☐ Other:</li> <li>☐ Other:</li> <li>☐ Other:</li> <li>☐ Other:</li> </ul>	orrected)  ole ded) 	859	Units Date analyze _μmho/ 2/5- mg/l	From <u>MF</u> , Calcium Potassium Magnesium Sodium Bicarbonate	NA Sample $\mu d$ 70 19.7 3.12 5.4 223 449 11.9	Date <u>Analyzed</u> mg/1 12/15 2 mg/1 12/18 mg/1 12/18 mg/1 12/14 mg/1 12/14	
<ul> <li>25 °C (00095)</li> <li>Total non-filterat residue (suspen (00530)</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>A-H<sub>2</sub>SO<sub>4</sub></li> <li>Nitrate-N + , Nitr total (00630)</li> <li>Ammonia-N tota</li> <li>Total Kjeldahl-N ( )</li> </ul>	Directed)	859	Units Date analyze _µmho	Generation of the second secon	NA Sample $\mu d = 70^{\circ}$ $19.72^{\circ}$ $3.13^{\circ}$ $5.94^{\circ}$ $223^{\circ}$ $3.13^{\circ}$ $5.4^{\circ}$ $223^{\circ}$ $3.13^{\circ}$ $5.4^{\circ}$ $223^{\circ}$ $3.13^{\circ}$ $5.4^{\circ}$ $223^{\circ}$ $3.13^{\circ}$ $5.4^{\circ}$ $223^{\circ}$ $3.13^{\circ}$ $5.4^{\circ}$ $223^{\circ}$ $3.13^{\circ}$ $5.4^{\circ}$ $223^{\circ}$ $3.13^{\circ}$ $5.4^{\circ}$ $223^{\circ}$ $3.13^{\circ}$ $5.4^{\circ}$ $223^{\circ}$ $3.13^{\circ}$ $5.4^{\circ}$ $223^{\circ}$ $3.13^{\circ$	$\begin{array}{c} & \text{Date} \\ \underline{\text{Analyzed}} \\ mg/1 & iz/15 \\ \hline mg/1 & iz/15 \\ mg/1 & iz/15 \\ mg/1 & iz/15 \\ mg/1 & iz/i7 \\ \hline mg/1 & iz/i7 \\ mg/1 & iz/i7 \\ \hline mg/1 & jz/15 \\ \hline mg/1 & iz/15 \\ \hline \end{array}$	
<ul> <li>25°C (00095)</li> <li>Total non-filterat residue (suspen (00530)</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>A-H<sub>2</sub>SO<sub>4</sub></li> <li>Nitrate-N + , Nitr total (00630)</li> <li>Armonia-N tota</li> <li>Total Kjeldahl-N ()</li> <li>Chemicał oxyge demand (00340)</li> </ul>	Dife (ided) (ade	859	Units Date analyze _μmho/ 2/5- 	German Solid German Solid Ge	NA Sample Hd 70 19.72 3.13 5.4 223 449 11.9 79.4 15.79	$\begin{array}{c} & \text{Date} \\ \underline{\text{Analyzed}} \\ \\ mg/1 & iz/i5 \\ \hline mg/1 & iz/i5 \\ mg/1 & iz/i5 \\ \hline \end{array}$	
<ul> <li>25°C (00095)</li> <li>Total non-filterat residue (suspen (00530)</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>A-H<sub>2</sub>SO<sub>4</sub></li> <li>Nitrate-N + , Nitr total (00630)</li> <li>Armonia-N tota</li> <li>Total Kjeldahl-N ( )</li> <li>Chemical oxyge demand (00340)</li> <li>Total organic car ( )</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> </ul>	orrected)	859	Units Date analyze _µmho	Germanyst	NA Sample Hd 70 19.7 3.1 5.4 203 449 11.9 79.4 15.79 nion Ba. Date Re 12.1	$\begin{array}{c} & \text{Date} \\ \underline{\text{Analyzed}} \\ \hline mg/1 & 12/15 \\ \hline mg/1 & 12/18 \\ \hline mg/1 & 12/15 \\ \hline mg/1 & 12/15 \\ \hline mg/1 & 12/14 \\ \hline mg/1 & 12/15 \\ \hline \\ \hline \\ \text{Lance} \\ \hline \\ \text{eported} \\ \hline \\ \text{Reviewed by} \\ \hline \\ \text{Z} \geq 15 + C \\ \hline \end{array}$	
<ul> <li>25°C (00095)</li> <li>Total non-filterat residue (suspen (00530)</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>A-H<sub>2</sub>SO<sub>4</sub></li> <li>Nitrate-N + , Nitr total (00630)</li> <li>Ammonia-N tota</li> <li>Total Kjeldahl-N ( )</li> <li>Chemical oxyge demand (00340)</li> <li>Total organic car ( )</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>aboratory remarks</li> </ul>	orrected)	859	Units Date analyze           µmho         12/5-           mg/l	Germanyst	NA Sample Hd 70 19.7 3.1 5.4 223 5.4 203 5.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2	$\begin{array}{c} & \text{Date} \\ \underline{\text{Analyzed}} \\ \hline mg/1 & 12/18 \\ \hline mg/1 & 12/18 \\ \hline mg/1 & 12/18 \\ \hline mg/1 & 12/14 \\ \hline mg$	
<ul> <li>25°C (00095)</li> <li>Total non-filterat residue (suspen (00530)</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>A-H<sub>2</sub>SO<sub>4</sub></li> <li>Nitrate-N + , Nitr total (00630)</li> <li>Ammonia-N tota</li> <li>Total Kjeldahl-N ( )</li> <li>Chemicał oxyge demand (00340)</li> <li>Total organic cal ( )</li> <li>Other:</li> <li>Other:</li> <li>Other:</li> <li>aboratory remarks</li> </ul>	orrected)	859	Units Date analyze _µmho	Germanyst	NA Sample Hd 70 19.7 3.1 5.4 203 449 11.7 79.4 15.79 nion Ba. Date Re 12	$\begin{array}{c} & \text{Date} \\ \underline{\text{Analyzed}} \\ \hline \text{mg/l} & 12/15 \\ \hline \text{mg/l} & 12/18 \\ \hline \text{mg/l} & 12/15 \\ \hline \text{mg/l} & 12/15 \\ \hline \text{mg/l} & 12/14 \\ \hline \text{mg/l} & 12/15 \\ \hline \ \text{mg/l} & 12/15 \\ \hline \ \text{mg/l} & 12/15 \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	

	CATIONS				ANIONS		
ANALYT	E MEQ.	PPM	DET. LIMIT	ANALYTE	E MEQ.	PPM	DET. LIMIT
Ca Mg Na K	0.96 0.44 9.70 0.08	19.20 5.40 223.00 3.12	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	7.36 1.65 0.34	449.00 79.40 11.9	<1.0 <10.0 <5.0
Mn Fe	0.00 0.00	0.00 0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	11.18	250.72			9.35	540.30	
Total I Ion Bai	Dissolved lance =	Solids= 119.61%	795	WC Date c	No. No.	= 8704942	

··	VI Albuquerque, N	M 87106 841-2570 87-171Γ	ሶ
EPORT TO:	David Boyer	S.L.D. No. OR	υ 
	N.M. Oil Conservation Divi	sion DATE REC. 10-30-8	2
	P. O. Box 2088		_ •
	Santa Fe, N.M. 87504-2088	PRIORITY 3	
HONE(S)	327-5812	USEB CODE: 1 8 1 2 1 2 1 3 5 1	
UBMITTER.	David Boyer	CODE: 12 1610 1	
AMPLE COLLE	CTION CODE: (YYMMDDHHMMIII)	817111012161/1717151 1981	
AMDIE TVDE.			
OUNTY PL	APRICE OF CONTY		
OCATION COL	DE: (Township-Range-Section-Tracts)	+(10N06E24342	:)
NALYSES REC	<u>UESTED</u> : Please check the appropriate ver possible list specific compounds suspe	box(es) below to indicate the type of analytical screens	
	PURGEABLE SCREENS	EXTRACTABLE SCREENS	
[] (753) Alipha	tic Purgeables (1-3 Carbons)	(751) Aliphatic Hydrocarbons	
(754) Aroma	stic & Halogenated Purgeables	[_] (760) Organochlorine Pesticides	
(766) Trihal	omethanes	[] (755) 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	
	TAIT IL 25117	= $(1)$ $(2)$ $(3)$	
IELD DATA:			
H=; Co	onductivity=umho/cm at	°C; Chlorine Residual=mg/l	
issolved Oxygen	m=mg/l; Alkalinity=mg/l;	Flow Rate/	
epth to water	ft.; Depth of wellft.; Pe	erforation Intervalft.; Casing:	
ampling Locatio	on, Methods and Remarks (i.e. odors, etc	z.)	
certify that th	ne results in this block-accurately reflect	the results of my field analyses, observations and	
ctivities.(signatu	re collector):	Method of Shipment to the Lab: 45-	
his form accom	npanies Septum Vials, Gla	uss Jugs, and/or	
amples were pr	reserved as follows:	· · · · · · · · · · · · · · · · · · ·	~~
E NP:	No Preservation; Sample stored at roo	m temperature.	11.
P-Na SO	Sample Preserved with Sodium Thiosul	lfate to remove chlorine residual	11
THAIN OF CU	STODY	Turisher 1	<u>777 1</u>
certify that th	nis sample was transferred from	to to	<u>h</u> r
t (location)		on / / and that	
·		als: Not Supled D Seale Intract: Vak D No.	
he statements i	n this plock are correct. Evidentiary Sec	Sin tion Dedicu     Dedia Intact. Tea   Itit	

## ANALYSES PERFORMED

LAB. No.: OR- 1715

THIS PAGE FOR LA	ABORATORY RESULTS ONLY
This sample was tested using the analytical screening metho	d(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  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.
Asomatic purgeables # [actome] 62 halognated purgeables N.D. DETECTION LIMIT • X / M/L ABBREVIATIONS USED: N D = NONE DETECTED AT OR ABOVE THE STA T R = DETECTED AT A LEVEL BELOW THE STA [ RESULTS IN BRACKETS ] ARE UNCONFIRMED AN	TED DETECTION LIMIT + DETECTION LIMIT + 57 ***/2
LABORATORY REMARKS:	
CERTIFICATE OF AN Seal(s) Intact: Yes No Seal(s) broken by:	VALYTICAL PERSONNEL
I certify that I followed standard laboratory procedures on han that the statements on this page accurately reflect the analytic	adding and analysis of this sample unless otherwise noted and cal results for this sample.
Date(s) of analysis:A/A/A/A Analyst's signature:	Nary E-Edlen
i certify that I have reviewed and concur with the analytical Reviewers signature:	results for this sample and with the statements in this block.

.

	New Mexico Hea SCIENTIFIC LAE 700 Camino de S Albuquerque, NN	Alth and Envir BORATORY (CON Balud NE A 87106 — (505) 841-2:	Department	839 WNN	GENERAL V and NITR	VATER CHEMIS	STRY SIS
RECEIVED /0	3018/ N	o.wc 4947		<u> </u>	OTHER: 822	235	<u> </u>
10 26 21 Collection TIME	2	SITE		TNT	·····		
1725 Collected by - Person//	vgency		Collection site description	(A) C	ENT N	- W	
olson,	BARE	√ /0CD			]		
SEND FINAL REPORT TO	ENVIRONMEN NM OIL CONS State Land Santa Fe, i David Boy	TAL BUREAU SERVATION DIV Office Bldg, NM 87504-2088	ISION PO Box 208	3		· · · · · · · · · · · · · · · · · · ·	
Au).		y£1		*******************************	Station/		
Phor	ne: 827-58	812			well code		
SAMPLING CO	NDITIONS	·····			Uwner		
☐ Bailed □ Dipped	Pump Tap	Water level		Discharge		Sample type	
pH (00400)	×	Conductivity (Uncor	rected) µmho	Water Temp. (00010)	°C	Conductivity at 25°	C (00094) μmho
Field comments							
SAMPLE FIELD	TREATMEN	T — Check proper	boxes	· · · · · ·	<u></u>		
No. of samples	/ 🕅 🕅	Whole sample	□ F: Filtered in	field with	2 ml H <sub>2</sub> SO <sub>4</sub> /	Ladded	
NA: No ac ANALYTICAL F	id added 🛛 🗘	Dther- <i>specify:</i> I SAMPLES	A:	5ml conc. HNO <sub>3</sub>	added □A , NA Sample	A: 4ml fuming	; HNO <sub>3</sub> added
X Conductivity (0 25°C (00095)	Corrected)	<u>1154                                   </u>	mho 12/5.	-	Hd 6	O Anal	yzed
Total non-filtera residue (suspe (00530)	able nded)		ng/i	Calcium Potassium	1.99	mg/1 5mg/1/2	18
□ Other:		'		Magnesium	4.9	mg/1	
Other:				- Sodium	-239	mg/1 <u>/2/</u>	18
		· · · · · · · · · · · · · · · · · · ·		Bicarbona	te <u>335</u>	mg/1	1,4
A-H₂SO₄				Chloride	2.10	mg/1iz/	4
Nitrate-N + Ni total (00630)	trate-N	r	ng/l	Sulfate _	2490	mg/12	14
Ammonia-N to	tal (00610)	r	mg/l	- Total Sol	ids <u>1130</u>	mg/1/	2/15
Total Kjeldahl-I ( )	N		ng/l				
Chemical oxyg	ел 0)						
<ul> <li>Total organic c</li> </ul>	arbon	r r	ng/l		· .		
()	-	r	ng/l	- 🛛 Cation/	Anion Bal	lance	
C Other:			·····	Analýst	Date Re	eported Reviewe	ed by
Laboratory remark	'S				/7	22 87 Q	
		N	1 2/1	Phone on I	tor? Dat	- Trafma1-	TB
FOR OCD US	E Date (	wner Notlige	<u>/</u>	- rnone or Let	LEI JUJS.	- initials	~4

ł

ANALYTE	CATIONS E MEQ.	РРМ	DET. LIMIT	ANALYTH	ANIONS E MEQ.	РРМ	DET. LIMIT
Ca Mg Na K	0.80 0.40 10.40 0.05	16.00 4.90 239.00 1.95	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	5.49 5.19 0.28	335.00 249.00 10.0	<1.0 <10.0 <5.0
Mn Fe	0.00 0.00	0.00 0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	11.65	261.85			10.96	594.00	
Total D Ion Bal	issolved ance =	Solids= 106.27%	1136	WC Date c	No. Dut/By _	= 8704947	_

. .

OIL CONSER UN DIVISION REF 76D

Inter Mountain

Laboratories, Inc.

#### '90 SEP 26 AM 10 06

2506 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

CLIENT:	NMOCD	DATE REPORTED:	09/20/90
ID:	9009041620		
SITE:	MW-13 TN1	DATE RECEIVED:	09/06/90
LAB NO:	F4922	DATE COLLECTED:	09/04/90

ed concentration)	, mg/l
Analytical	Detection
Result:	Limit:
ND	<0.005
ND	<0.002
ND	<0.005
ND	<0.0002
	ed concentration) Analytical Result: ND ND ND ND ND

ved concentratio	n), mg/l
Analytical	Detection
Result:	Limit:
ND	<0.01
ND	<0.1
0.27	<0.01
0.08	<0.05
ND	<0.01
ND	<0.02
0.01	<0.01
ND	<0.05
0.17	<0.02
ND	<0.01
ND	<0.01
1.1	<0.05
4.3	<0.05
ND	<0.2
ND	<0.1
0.31	<0.01
	ved concentratio Analytical Result: ND 0.27 0.08 ND 0.01 ND 0.17 ND 0.17 ND 1.1 4.3 ND ND 0.31

ND - Analyte "not detected" at the stated detection limit.

C. Neal Schaeffer Lab Director



Inter Mountain Laboratories, Inc. 2506 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

CLIENT:	NMOCD	DATE REPORTED:	09/27/90
ID:	9009041620	DATE ANALYZED:	09/12/90
SITE:	MW-13	DATE RECEIVED:	09/06/90
LAB NO:	F4922	DATE COLLECTED:	09/04/90

Analysis Requested: Purgeable aromatics in water.

Parameter	Concentration	Units
Benzene	ND (0.2)	ug/l
Toluene	ND (0.2)	ug/l
Ethylbenzene	ND (0.2)	ug/l
m/p-Xylene	ND (0.2)	ug/l
o-Xylene	ND (0.2)	ug/l
1,4-Dichlorobenzene	ND (0.2)	ug/l
1,3-Dichlorobenzene	ND (0.2)	ug/l
1,2-Dichlorobenzene	ND (0.2)	ug/l
Chlorobenzene	ND (0.2)	ug/l
Surrogate recovery	97.2 %	

Method:

8020 Aromatic Volatile Organics, SW-846, USEPA (1982). 602 Purgeable Aromatics, 40 CFR, Part 136.

(Detection limit in parenthesis.) ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer Senior Chemist

OIL DUASES ON DIVISION REMAINED '90 SEP 26 FM 8 54

Inter Mountain Laboratories, Inc.

2506 West Main Street Farmington, New Mexico 87401 Tel. (505) 326-4737

CLIENT:	NMOCD	DATE REPORTED:	09/20/90
ID:	9009041620		
SITE:	MW-13	DATE RECEIVED:	09/06/90
LAB NO:	F4922	DATE COLLECTED:	09/04/90

7.79	
21300	
0	
20010	
17130	
584	
0	
6850	
19	
meq/l	
12	
0	
224	
63	
54	
83	
1	
161	
298	
299	
0	%
	7.79 21300 0 20010 17130 584 0 6850 19 meq/l 12 0 224 63 54 83 11 161 298 299 0

0	Q	Alt mai	4.71		ALC: NIV	(C10)
10			na ch RE	6. Z	VED	ISIUN
						2506 West Main Street
	ouniain vies les	'90 OC	T.	1	AM 11	Taimington, New Mexico 8/401
CLIENT:	NMOCD	DATE	REP	'OR'	TED:	09/27/90
ID:	9009041620	DATE	ANA	LY	ZED:	09/12/90
SITE:	MW-13 TNT	DATE	REC	EI	VED:	09/06/90
LAB NO:	F4922	DATE C	OLL	EC'	TED:	09/04/90
Analysis	Requested: Purgeable haloca:	rbons	in	wa	ter.	
	Parameter			Cor	ncenti	ration
	Chloromethane, ug/l.				 תא	(1,0)
	Bromomethane, ug/1	•••••••			ND	(1,0)
	Dichlorodifluoromethane, ug	/1			ND	(1.0)
	Vinyl chloride, ug/l				ND	(1.0)
	Chloroethane, ug/1				ND	(1.0)
	Dichloromethane (methylene d	chlori	de)		ND	(1.0)
	Trichlorofluoromethane, ug/1	1			ND	(1.0)
	1,1-dichloroethene, ug/l				ND	(1.0)
	1,1-dichloroethane, ug/l				ND	(1.0)
	trans-1,2-dichloroethene, ug	g/l	•••		ND	(1.0)
	cis-1,2-dichloroethene, ug/.	1	•		ND	(1.0)
	Chloroform, ug/1		•••		ND	(1.0)
	1,2-dichloroethane, ug/1		• • •		ND	(1.0)
	Carbon totrachlorido ug/1		•••			(1.0)
	Bromodichloromethane ug/l.		• • •		ND	(1.0)
	Bromochloromethane ug/1	• • • • • •	•••		ND	(1,0)
	1.2-Dichloropropane, ug/1	· · · · · · ·			ND	(1,0)
	1.3-Dichloropropane. ug/1				ND	(1,0)
	1,2-Dibromoethane, ug/l				ND	(1,0)
	1,2-Dibromo-3-chloropropane	, ug/1			ND	(1.0)
	Trichloroethene, ug/1				ND	(1.0)
	Dibromochloromethane, ug/l.				ND	(1.0)
	1,1,2-Trichloroethane, ug/l				ND	(1.0)
	1,1-dichloropropene, ug/l				ND	(1.0)
	2-chloroethyl vinyl ether,	ug/l	• • •		ND	(1.0)
	Bromoform, ug/1		• • •		ND	(1.0)
	1,1,1,2-tetrachloroethane,	ug/l	• • •		ND	(1.0)
	1,1,2,2-tetrachloroethane,	ug/1	•••		ND	(1.0)
	Tetrachloroethene, ug/1		•••		ND	(1.0)
	Chlorobenzene, ug/1		•••		ND	(1.0)
	1,3-dichlorobenzene, ug/l		•••		ND	(1.0)
	1,2-dichlorobenzene, ug/1	• • • • • •	•••			(1.0)
	i, - uithioropenzene, ug/1		•••		ם א ת אז	(1,0)
	Bromohenzene ud/1	uy/1.	•••			(1,0)
	2-Chlorotoluene ug/1		•••		רוא	(1,0)
	Dibromomethane ug/1		•••		ND	(1,0)
	1,2,3-Trichloropropane, ug/	1			ND	(1.0)

Method:

601 Purgeable Halocarbons, 40 CFR Part 136, USEPA (1984). 8010 Halogenated Volatile Organics, SW-846, USEPA (1982). (Detection limit in parenthesis.) ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer Senior Chemist

Inter Mountain Laboratories, Inc			
GIL CONCESSION DIVISION			
CLIENT: OCD - TNT SAMPLE: 89073011746 5 AM 9 42	DATE REPORTED:	08/21/89	
SITE: MW-13 LAB NO: F1834	DATE RECEIVED: DATE COLLECTED:	08/01/89 07/31/89	
Lab pH Lab Conductivity, umhos/cm Lab resistivity, ohm-m Total Dissolved Solids (180), mg, Total Dissolved Solids (calc), mg Total Alkalinity as CaCO3, mg/l. Total Acidity as CaCO3, mg/l Total Hardness as CaCO3, mg/l Sodium Absorption Ratio Fluoride, mg/l	8.10 16204 0.6171 13970 1.13089 245.63 0.00 4262.48 21.28 0.16		
mg/i Bicarbonate as HCO3 299 Carbonate as CO3 0 Chloride 5934 Sulfate 2407 Calcium 912 Magnesium 482 Potassium 11 Sodium 3193 Major Cations 3193 Major Anions	meg/  .67 4.91 .00 0.00 .33 167.40 .27 50.15 .56 45.54 .91 39.71 .20 0.29 .60 138.91 224.45 222.46 0.44 %		

C. Neal Schaeffer Senior Chemist

Ì 3 Mar way 050 201.24 1) luck 2 2 und 4-XCEAs 'n

Sventer by Phone From tor by Phone HCO3 300 HCO3 300 CC2 6000 CC2 3000 CC2 6000 CC2 300 CC2 300

	700 Camino de Salud NE Albuquerque, NM 18710886841-2570
REPORT TO:	AVID BOLL CONSERVATION DIVISION S.L.D. No. OR- 86- 0932-C
	STATE LAND DEFICE RIDE FORMY 2088
	SANITA FE NM 87504-2088 PRIORITY
PHONE(S):	827 - 58/2 USER CODE: 181212151
SUBMITTER:	DAVID BOYER CODE: 1216101
SAMPLE COLLI	ECTION CODE: (YYMMDDHHMMIII) $  8 6 0 8 0 7 ( 0 35 6 0 3)$
SAMPLE TYPE	: WATER [], SOIL ], FOOD ], OTHER: CODE:   _
COUNTY: <u><u><u>(</u>)</u></u>	ARRIBA ; CITY: LINDRITH CODE:
LOCATION COI	DE: (Township-Range-Section-Tracts) $ \partial 5 N+O 3 \omega+O 8+\partial 3 $ (10N06E24342)
ANALYSES REC	QUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens
required. Wheney	ver possible list specific compounds suspected or required.
🏹 (753) Alipha	atic Purgeables (1-3 Carbons)
(754) Arom	atic & Halogenated Purgeables [] (760) Organochlorine Pesticides
(765) Mass	Spectrometer Purgeables [] (755) Base/Neutral Extractables
] (766) Trihal	omethanes [] (758) Herbicides, Chlorophenoxy acid
	r Specific Compounds or Classes [] (759) Herbicides, Irlazines
<b></b> '	[_] (100) Organochosphate Pesticides
	(767) Polychlorinated Biphenyls (PCB's)
<u> </u>	(764) Polynuclear Aromatic Hydrocarbons
Remarks: <u>5C</u>	HALK OLITO #1 DAKOTA 7M. PRODUCED WATER
FIELD DATA:	587 Contractor of the second sec
pn=; ∪ Discolved Ovverse	$mg/i = \frac{g}{g} \frac{g}{$
Dissolved Oxyger	ingri, Aikainityingri, Flow Rate
Depth to water	ft.; Depth of wellft.; Perforation Intervalft.; Casing:
Sampling Locatio	on, Methods and Remarks (i.e. odors, etc.)
UNICHEN	<u>A HIS 410 USED TO TREAT WELL</u>
I certify that the activities.(signatu This form accon Samples were pu	he results in this block accurately reflect the results of my field analyses, observations and ire collector): (Guiden Method of Shipment to the Lab: fford Carrier npanies Septum Vials, Glass Jugs, and/or
NP:	No Preservation; Sample stored at room temperature.
P-Ice	Sample stored in an ice bath (Not Frozen).
P-Na S O CHAIN OF CU	Sample Preserved with Sodium Thiosulfate to remove chlorine residual.
I certify that the	his sample was transferred from to
at (location)	on / / - : and that
the statements i	in this block are correct. Evidentiary Seals: Not Sealed 🗍 Seals Intact: Yes 🧻 No 🥅
Signatures	

# ANALYSES PERFOR

LAB. N. OR- 932

\* ~ 1

THIS PAGE FOR LABORATORY RESULTS ONLY

	····		
This sample was tested using the analytical screen	ing method(s)	checked below:	
		EVIDACTADI D CODFEND	
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) Organoshlaring Pagtisidas	
		[_] (700) Organochiorme Festicides	
		[] (761) Organophosphate Pesticides	
		(767) Polychlorinated Biphenyls (PCB's)	
		(764) Polynuclear Aromatic Hydrocarbons	
		(762) SDWA Pesticides & Herbicides	
A 81			
AN	ALY IICA	LRESULIS	
	CONG		CONC
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
<u> </u>			IPBBI
Kennen	Inom		
21	10000		
Totriene	11000		
-H 20.			
ellugebenzene	120		
0-Vule and	1200		
M-Xivene	5100		
	1000		
C-Xiplene	1000		
U			
	Marie /	· · · · · · · · · · · · · · · · · · ·	
halogenated burgeafles	terte		
		······································	
······································			
		·	
* DETECTION LIMIT * 🔭	20 ml	+ DETECTION LIMIT + $+$	
ABBREVIATIONS USED:			
N D = NONE DETECTED AT OR ABOVE	THE STATED	DETECTION LIMIT	
T R = DETECTED AT A LEVEL BELOW	THE STATED	DETECTION LIMIT (NOT CONFIRMED)	
[ RESULTS IN BRACKETS ] ARE UNCONF.	IRMED AND/O	OR WITH APPROXIMATE QUANTITATION	
• • • • • • • • • • • • • • • • • • • •		······································	
	······································		
LABORATORY REMARKS 81 5 4.		and M. Marthadasa	
LABORATORY REMARKS: & LLO Sample	pad a 4	mail full & freakspace,	
·		/	
CERTIFICAT	E OF ANALY	TICAL PERSONNEL	
Seules intact: res     No    . Seal(s) broken by	•	date:	
I certify that I followed standard laboratory procedure	es on handling	; and analysis of this sample unless otherwise noted	and
that the statements on this page accurately reflect the	he analytical re	esults for this sample.	
Datala) of analysis IGA a Gla	A		
Dave(s) of analysis: <u>ACT TOLG C. K.</u> . Analyst's sig	nature: <u>&gt; / / /</u>	Vinney	
I certify that I have reviewed and concur with the	analytical resul	te for this sample and with the statements in this	block
So the second se	anony year resul	tor one sample and with the statements in this	DIOCK.
Reviewers signature: <u>L Mayluhlun</u>			
· · · · · · · · · · · · · · · · · · ·			

TE CEIVED 8 15 86	NO. WC- 369		<u>300 🗆 59600 🕅 X</u>	OTHER:	82235		
ection DATE	SITE INFORM- ATION	Sample location	SCHALK C	NITO	# /		
	BOYER/OCD	Collection site descri	ption & Tasn,	RJW	216	O FN	L = 1900+
ENVIRONM NM OIL C AL State La PORT Santa Fe Attn: <u>David</u>	ENTAL BUREAU DNSERVATION D nd Office Bld , NM 87504-20 Boyer	IVISION g, PO Box 2 188	DECENTION SEP 22198		07A Fr 75 C	<u> </u>	Pronuce
Phone: 827-	·5812			weil code	·. ·		<u> </u>
MPLING CONDITIONS							
Bailed & Pump Dipped	Water level		Discharge		Sample	type	
(00400)	Conductivity (Un ンチ	corrected) جرجی µmh	Water Temp. (00010)	58-68	Conduct	tivity at 25°	°C (00094) μπ
id comments					11511		
MPLE FIELD TREATME	<b>NT</b> — Check prop <b>NF</b> : Whole sample (Non-filtered) ] Other-specify:	Der boxes □ F: <sup>Filterec</sup> 0.45 μ □ A:	d in field with membrane filter □ A: 5m1 conc. HNO, a	$2 \text{ ml H}_2\text{S}$	O₄/Ladded ⊡A: 4ml	i L fumin	g HNO, add
MPLE FIELD TREATME lo. of samples ubmitted INA: No acid added ALYTICAL RESULTS fr NF. NA)	INT — Check pro NF: Whole sample (Non-filtered) Other-specify: om SAMPLES	Der boxes □ F: Filtered 0.45 μ □ A: Units Date analy	d in field with membrane filter □ A: 5m1 conc. HNO <sub>3</sub> a	2 ml H <sub>2</sub> Si added	O₄/Ladded □A: 4ml	j L Eumin Units	g HNO <sub>3</sub> add Date analyze
MPLE FIELD TREATME Io. of samples ubmitted INA: No acid added ALYTICAL RESULTS fr NF. NA) Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Dther:	ENT — Check pro NF: Whole sample (Non-filtered) Other-specify: om SAMPLES	Der boxes □ F: <sup>Filterec</sup> 0.45 µ □ A: Units Date analy µmho mg/l R/Z Z	d in field with membrane filter A: 5m1 conc. HNO <sub>3</sub> a //zed F. NA Calcium (00915) Calcium (00915) Calcium (00930) Potassium (00935) Bicarbonate (0044) Chloride (00940) Chloride (00945) Cotal filterable resid	2 ml H <sub>2</sub> S added	O₄/L added □ A: 4m] $\frac{194.4}{40.2}$ $\frac{40.2}{700}$ $\frac{436}{7569}$ $\frac{1726}{1726}$	i Units mg/1mg/1mg/1 mg/1mg/1 mg/1	g HNO <sub>3</sub> add Date analyze $b^{-2}$ i' i' i' b' i''' i''' i'''' i''''''''''''''''''''''''''''''''''''
MPLE FIELD TREATME to. of samples ubmitted INA: No acid added ALYTICAL RESULTS fr NF. NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: Other:	ENT — Check pro NF: Whole sample (Non-filtered) Other-specify: om SAMPLES	Der boxes □ F: Filterec 0.45 µ □ A: Units Date analy _µmho mg/l 	d in field with membrane filter A: 5m1 conc. HNO <sub>3</sub> a (zeet F. NA) Calcium (00915) Ar Magnesium (0092 Sodium (00930) Potassium (00935) Bicarbonate (0044) Chloride (00945) Total filterable resid (dissolved) (70300	2 ml H <sub>2</sub> Si added (25) (1) (40) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	O₄/L added □ A: 4m] $\frac{194.4}{40.2}$ $\frac{40.2}{5400}$ $\frac{1}{7569}$ $\frac{1}{7569}$ $\frac{1}{7569}$ $\frac{1}{7569}$	Units mg/i mg/i mg/i mg/i mg/i	g HNO <sub>3</sub> add Date analyze 227 11
MPLE FIELD TREATME Io. of samples ubmitted / A NA: No acid added ( ALYTICAL RESULTS fr NF. NA) Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: A-H <sub>2</sub> SO.	ENT — Check pro NF: Whole sample (Non-filtered) Other-specify: om SAMPLES 7.35	Der boxes □ F: Filterec 0.45 µ □ A: Units Date analy _µmho _ mg/l _ c/z z	d in field with membrane filter □ A: 5m1 conc. HNO <sub>3</sub> a /zet F, NA Calcium (00915) A Magnesium (00930) Colum (00930) Bicarbonate (0044) Chloride (00945) Chloride (00945) Columinate (00945) Coloride (00945) Col	2 mi H <sub>2</sub> S added (25) (1) (20) (10) (1000)	O₄/L added □ A: 4m] 4m 7m 7m 7m 7m 7m 7m 7m 4m 7m 7m 7m 7m 4m 7m	Units mg/i mg/i mg/i mg/i mg/i mg/i	g HNO <sub>3</sub> add Date analyze $2^{27}$ ii i' i' i' g/zz g/2 g/2 g/2
MPLE FIELD TREATME No. of samples ubmitted INA: No acid added ALYTICAL RESULTS fr NF. NA) Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: A-H <sub>2</sub> SO. Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N ( ) Chemical oxygen demand (00340) Total organic carbon ( )	ENT — Check pro NF: Whole sample (Non-filtered) Other-specify: om SAMPLES 7,35	Der boxes □ F: Filterec 0.45 µ □ A: Units Date analy µmho mg/l mg/l mg/l mg/l mg/l	J in field with       □       A:         membrane filter       □       A:         5m1 conc. HN03       a         vzet       F. NA       □         Calcium (00915)       □       Magnesium (0092         Sodium (00930)       Potassium (00935)       □         Bicarbonate (0044)       □       Chloride (00940)         Chloride (00945)       □       Total filterable resider (dissolved) (70300)         Chter:       □       F. A-H₂ SO.         F. A-H₂ SO.       □       Nitrate-N + , Nitrat dissolved (00631)         □       Ammonia-N disso (00608)       □         □       Other:       □         □       Other:       □	2 ml H <sub>2</sub> Si added (25) (1) (25) (1) (25) (25) (25) (25) (27)(27) (27)	O₄/L added □ A: 4m] $\frac{1994.4}{90.2}$ $\frac{40.2}{5400}$ $\frac{170}{7569}$ $\frac{138}{7569}$ $\frac{17}{76}$ $\frac{14}{595}$	Units Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l	g HNO <sub>3</sub> add Date analyze $\delta z^{2}$ ii ii ii 8/zz 9/4 37/20 8/18
MPLE FIELD TREATME lo. of samples ubmitted / A NA: No acid added ( ALYTICAL RESULTS fr NF. NA) Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeidani-N ( ) Chemical oxygen demand (00340) Total organic carbon ( ) Other: Cher: Cher: Chemical oxygen demand (00340) Total organic carbon ( ) Other: Other:	ENT — Check pro NF: Whole sample (Non-filtered) Other-specify: om SAMPLES 7,35	Der boxes □ F: Filterec 0.45 µ □ A: Units Date analy _µmho mg/l mg/l mg/l mg/l mg/l mg/l mg/l	tin field with membrane filter 5m1 conc. HNO <sub>3</sub> a 5m1 conc. HNO <sub>3</sub> a (zeet F, NA) Calcium (00915) A Magnesium (00925) Coloride (00930) Choride (00940) Chloride (00945) Chloride (00945) Chloride (00945) Chloride (00945) Choride (00945) Choride (00945) Choride (00945) Choride (00945) F, A-H <sub>2</sub> SO <sub>4</sub> F, A-H <sub>2</sub> SO <sub>4</sub> F, A-H <sub>2</sub> SO <sub>4</sub> F, A-H <sub>2</sub> SO <sub>4</sub> F, A-H <sub>2</sub> SO <sub>4</sub> Chirate-N + , Nitrati dissolved (00631) Ammonia-N disso (00608) Total Kjeldahl-N () Other: Analyst	2 ml H <sub>2</sub> Si added (25) (10)(10)	O₄/L added □ A: 4m] $\frac{994.4}{90.2}$ $\frac{436}{7569}$ $\frac{7569}{7569}$ $\frac{14}{595}$ te Reported	1 Units mg/l	g HNO <sub>3</sub> add
MPLE FIELD TREATME         o. of samples         ubmitted         Ubmitted         INA: No acid added         INA: No acid added         ALYTICAL RESULTS fr         NF.NA)         Conductivity (Corrected)         25°C (00095)         Total non-filterable         residue (suspended)         (00530)         Other:         Other:         Other:         AH2SO4         Nitrate-N + , Nitrate-N         total (00630)         Armonia-N total (00610)         Total organic carbon         (         (         Other:         Ottal organic carbon         (         Other:         Other:         Other:         Other         Otal organic carbon         (         Other:         Other:         Other:	ENT — Check proj NF: Whole sample (Non-filtered) Other-specify: om SAMPLES 7.35	Der boxes □ F: Filterec 0.45 µ □ A: Units Date analy _µmho _ mg/l _ mg/l _ mg/l _ mg/l _ mg/l	Jin field with membrane filter       □ A:         Sm1 conc. HN03 a         ✓         Sm1 conc. HN03 a         ✓	2 mi H <sub>2</sub> Si added (25) (40) (100)) (100) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100)) (100 -	0₄/L added □ A: 4m] $\frac{194.4}{40.2}$ $\frac{40.2}{5400}$ $\frac{170}{7569}$ $\frac{138}{7569}$ $\frac{7569}{756}$ $\frac{14}{595}$ te Reported $\frac{7}{15}$	<pre> fum1n fumis units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l</pre>	g HNO <sub>3</sub> add Date analyze $\beta = 2^{2}$ i' i' $g/2^{2}$ $g/2^{2}$ $g/1^{2}$ $g/1^{2}$
MPLE FIELD TREATME lo. of samples ubmitted / NA: No acid added ( ALYTICAL RESULTS fr NF. NA) Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other: A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldanl-N ( ) Chemical oxygen demand (00340) Total organic carbon ( ) Other: Other: Cher: Chemical oxygen demand (00340) Total organic carbon ( ) Other: Other: Cher: Cher: Chemical oxygen Chemical oxygen Cher:	ENT — Check pro NF: Whole sample (Non-filtered) Other-specify: om SAMPLES 7.35	Der boxes □ F: Filterec 0.45 µ □ A: Units Date analy _µmho mg/l mg/l mg/l mg/l mg/l mg/l mg/l	d in field with membrane filter       □ A:         5m1 conc. HN03 a         5m1 conc. HN03 a         View Calcium (00915)         A:         Magnesium (0092         Sodium (00930)         Potassium (00935)         Bicarbonate (0044)         Chloride (00945)         Choride (00945)         Choride (00945)         F. A-H2 SO4         F. A-H2 SO4         Image: Filterable reside (00631)         Ammonia-N disso (00608)         Image: Total Kjeldahl-N ()         Other:         Analyst	2 mi H <sub>2</sub> Si added (25) (3) (40) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	O₄/L added □ A: 4m] $\frac{1}{74.4}$ $\frac{4}{72}$ $\frac{4}{7569}$ $\frac{7569}{7569}$ $\frac{7569}{7569}$ $\frac{7569}{7569}$ $\frac{1}{756}$ $\frac{1}{756}$ 1	Units Units mg/l	g HNO <sub>3</sub> add $ \begin{array}{c}         Date analyze \\         \boxed{227} \\                                    $

	New Mexico Hea SCIENTIFIC LAE 700 Camino de S Albuquerque, NN	Ith and En Ment I SORATORY DIVISION alud NE A 87106 — (505) 841-2	Department 555	pN s		META	925 ISTRY SIS
RECEIVED 8	15 86 N	o. HM. 1549		o 🗌 59600 🗥 o	THER: 82	235	
817 86		SITE		CHACK OJ	170 #	+ /	
Collection TIME		ATION	Collection site description	V = 2541	e 7 . 1		
Collected by - Person/A	gency	SVER/OCD		2 / <del>2</del> 3 / 7	$\sqrt{3} \omega$		
SEND N FINAL S REPORT S TO Attn: Phon	ENVIRONMEN M OIL CONS State Land Santa Fe, I David Boy e: 827-58	TAL BUREAU SERVATION DIV Office Bldg, NM 87504-2088 Ver	ISION PO Box 208	SEP 1 1 1986	SAKOT QATE ON Station/ well code	R FM	PRODUCED
SAMPLING CO	NDITIONS				Owner		
Bailed     Dipped	& Pump □ Tap	Water level		Discharge		Sample type	
рН (00400)		Conductivity (Uncor こらの?	rected) ⊖ µmho	Water Temp. (00010)	60 °C	Conductivity at 25	°C (00094) µmho
Field comments				** · · · · · · · ·		1	
	Unicher	m HB-410	usedi	To treat we	<u>l</u> l		·
SAMPLE FIELD	TREATMEN	T — Check prope	boxes				
No. of samples submitted	/ RNF	Whole sample (Non-filtered)	E F: Filtered in 0.45 µme	field with	2 ml H₂SO₄/	'L added	
<b>NA:</b> No aci	d added 🗆 C	Other-specify:		5ml conc. HNO3 ad	ided	A: 4ml fumin	g HNO <sub>3</sub> added
	ESULTS from	SAMPLES	Inite Date analyze			lloite	Date analyzed
TT-Sonductivity (C	(orrected)		Inits Date analyze	Calcium (00915)			
25°C (00095)	······································	μ	mho	- Magnesium (00925)	)	mg/l	· · · · · · · · · · · · · · · · · · ·
	hie			Sodium (00930)		mg/l _	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
residue (suspe	nded)			Potassium (00935) Bicarbonato (00440	<u></u>	mg/i _	<u> </u>
(00530)			mg/l	Chloride (00940)	)	mg/i _ 	
Cother: Ch			·	- Sulfate (00945)		mg/l	
Other:				Total filterable residu	e		
110				Other:		mg/l	
NF, A-H2SO4				F ArH. SO.			
total (00630)	irate-N		mg/l		N		
🗆 Ammonia-N tot	ai (00610)		mg/l	dissolved (00631)	•IN	mg/l _	
Total Kjeldahl-N	ł		ma/l	Ammonia-N dissolv	ed	• •	
Chemical oxyg	en			─ (00608) □ Total Kieldahl-N	. <u></u>	mg/l _	
demand (0034)	))		mg/l	- ( )		mg/l _	<u></u>
( )			mg/l	- Other:	<u> </u>		
Other: Other:			<del></del>	Analyst	Date R	eported Review	wed by
Laboratory remark	<u>.</u> S			_1			
					Samp	Le Digester	7/
					1	<i>U</i>	
1 .							
SLD 726 (12/84)							

Lab Number: HTM 1549 Date Submitted: 8/15/86 Boyer By:

Sample Code: Schalk Date Analyzed: 8/27/86 Ind-Reviewed By:\_ Date Reported: 8/29/86 6

Element	ICAP VALUE(MG/L)	AA VALUE (MG/L)
Aluminum	40.1	
Barium	0.8	
Berylium	<0.1	
Boron	2.7	
Cadmium	<0.1	
Calcium	220.	<del>_</del>
Chromium	40.1	
Cobalt	<0.	
Copper	<0.1	
Iron	<u>25.</u>	
Lead	<0.	
Magnesium	23.	
Manganese	0.35	
Molybdenum	20.1	
Nickel	<0.1	
Silicon	<u></u>	
Silver	<0.1	
Strontium	12	
Tin	<0.1	
Vanadium	<0.1	
Zinc	<0.1	
Arsenic		< 0,005
Selenium		<0,005
Mercury		<0,0005

ATE 8 15 86	NO. He		59300	<u> </u>	<u>этнев:</u> 82	235		
allection DATE	1689 SITE	Sample lo	scation	CHALK WEL	41	- 2		·····
			site description	4-2-2-8-725	A R34	, )	MEEN	VEACE +
BOYE	TR_ /0CD	50	1 SICI		7			
ENVIRONMEN	ITAL BURFAIL			0.1000			·····	
NM OIL COM	SERVATION DI	VISTO	SEP	2 2 1980				
PORT State Land Santa Fe	NM 87504-208	ונטיק, א <u>ר</u> געני 88	CONSEN	VATION DIVISION				
Attn: <u>David B</u>	over	- 0.1-	S/	INTA FE				·····
					Station/			<u></u>
Phone: 827-5	812				Well code Owner			
Bailed & Pump	Water level	. '		Discharge		Sample	e type	
Dipped Tap								
IT (00400)		prrected) フ <i>ひ</i> O	μmho	Water Temp. (00010)	<i>∋6</i> ℃	Condu	ctivity at 25	5°C (00094) μn
BUT       SETTLE         MPLE FIELD TREATMEN         No. of samples         submitted         Set NA: No acid added	SORPEO AND IT — Check prop IF: Whole sample (Non-filtered) Other-specify:	<i>⊤₀</i> <u>©€CA</u> er boxes □ <b>F</b> :	$\frac{(m \rho_R)}{NT \in \mathcal{O}}$ S Filtered in 0.45 µmer	field with $\Box A: 2$ field conc. HNO <sub>3</sub> add	2 ml H <sub>2</sub> SO <sub>4</sub> /	/L adde A: 4m	PCE d l fumir	FOAMY
ield comments <u>BUT</u> <u>SETTLE</u> AMPLE FIELD TREATMEN No. of samples submitted NA: No acid added NA: No acid added NA: No acid added NF, NA) Conductivity (Corrected)	SORPEO AND T - Check proper- F: Whole sample (Non-filtered) Other-specify: m SAMPLES	To OECA er boxes D F: Units Da	1mpr. NTED S Filtered in 0.45 μmer	field with nbrane filter $\Box A: 2$ $\overline{bml} conc. HNO_3$ ad WF, NA	2 mi H₂SO₄/	. <u>Sem</u> /Ladde A: 4m	DCE d l fumir Units 	FoAm y ng HNO <sub>3</sub> add Date analyz $\overline{R} - 2\overline{T}$
BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples         submitted         Submitted         NA: No acid added         NA: No acid added         NALXTICAL RESULTS from         NF, NA)         Conductivity (Corrected)         25°C (00095)	SORPEO DAND IT — Check prop IF: Whole sample (Non-filtered) Other-specify: m SAMPLES	<u> </u>	1m ρ <sub>R</sub> NTEO S Filtered in 0.45 μmer □ A:	field with mbrane filter $\Box$ A: 2 5ml conc. HNO <sub>3</sub> ad WF, NA Calcium (00915) Magnesium (00925) Magnesium (00925)	$\operatorname{Ided} \square$	.Sam /L adde A: 4m	PCE           d           ll fumin	$\frac{FoAm }{Date analyz}$
ield comments	SORPEO AND IT — Check prop IF: Whole sample (Non-filtered) Other-specify: m SAMPLES	<i></i> <i>C</i> <i>er boxes</i> <sup>·</sup> □ F: <u>Units D</u> µmho	1m ρ.R. NTEO S Filtered in 0.45 μmer □ A:	field with nbrane filter A: 2 5ml conc. HNO <sub>3</sub> ad WF. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935)	$\operatorname{Ided} \square$ $\operatorname{Ided} \square$ $\operatorname{Ided} \square$	.Sem /L adde A: 4m	d units mg/l mg/l mg/l	$\frac{FoAm }{Date analyz}$
WELL         BUT       SETTLE         AMPLE FIELD TREATMEN       No. of samples         submitted       Image: Colspan="2">Image: Colspan="2" Image: C	SORPEO O ANO IT - Check propo IF: Whole sample (Non-filtered) Other-specify: m SAMPLES	<u> </u>	$\frac{(m \rho_R)}{NT \in \mathcal{O}}$ S Filtered in 0.45 µmer A:	field with nbrane filter A: 2 5m1 conc. HNO <sub>3</sub> ad F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940)	$H_2SO_4$ $H_2SO_4$ $H_2SO_4$ $H_2SO_4$ $H_2SO_4$ $H_2SO_4$	Sem /L adde A: 4 /.2 7 87 47	d units mg/l mg/l mg/l mg/l mg/l	$\frac{FoAm }{Particular}$
WELL         BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples         submitted         Submitted         MA: No acid added         NA: No acid added         NA: No acid added         NALXTICAL RESULTS from         NF, NA         Conductivity (Corrected)         25°C (00095)         Total non-filterable         residue (suspended)         (00530)         Other:         Other:	SORPEO AND T - Check prop F: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 92	 <u>CECA</u> <u>er boxes</u> <u>F:</u> <u>Units Da</u> <u>μmho</u>	$\frac{(m \rho_R)}{N \tau \in \mathcal{O}}$ S Filtered in 0.45 µmer $\Box A:$ ate analyzed $\frac{\mathcal{E}}{ P }$	field with nbrane filter A: 2 5ml conc. HNO <sub>3</sub> ad F, NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00940) Sulfate (00945) Total filterable casidu	$H_2SO_4$ $H_2SO_4$ $H_2SO_4$ $H_2SO_4$ $H_2SO_4$	Sem /L adde A: 4 1,2 7 87 47 47 1.0	d Units mg/l mg/l mg/l mg/l mg/l mg/l	$\frac{FoAm }{100}$ $\frac{FoAm }{100}$ $\frac{Date analyz}{100}$ $\frac{\overline{O} - 2\overline{T}}{100}$
BUT       SETTES         BUT       SETTES         AMPLE FIELD TREATMEN         No. of samples submitted         NA: No acid added         NA: No acid added         NA: No acid added         NALXTICAL RESULTS from NF, NA)         Conductivity (Corrected)         25°C (00095)         Total non-filterable residue (suspended) (00530)         Other:         Other:         Other:	SORPEO AND IT Check propu- IF: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 92	<u> </u>	$\frac{Im\rho_{R}}{NT \in \mathcal{O}}$ S Filtered in 0.45 µmer A: ate analyzed	field with mbrane filter A: 2 5ml conc. HNO <sub>3</sub> ad WF, NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00930) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residur (dissolved) (70300)	$\frac{1}{4}$	Sam /L adde A: 4 / 8 7 4 7 4 7 4 7 8 7 8 7 8 7 8 7 8 7 8 7	d Units Units mg/l mg/l mg/l mg/l mg/l mg/l	FOAMY FOAMY Date analyz $\overline{B} - 2\overline{T}$ $\overline{B} - 2\overline{T}$ $\overline$
BUT       SETTLE         BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples submitted       SETTLE         AMPLE FIELD TREATMEN         NA: No acid added       SETTLE         AMPLE FIELD TREATMEN         AMPLE FIELD TREATMEN         Submitted       SETTLE         NA: No acid added       SETTLE         AMPLE FIELD TREATMEN       SETTLE         AMPLE FIELD TREATMEN       SETTLE         AMPLE FIELD TREATMEN       SETTLE         No. of samples submitted       SETTLE         Conductivity (Corrected) 25°C (00095)       SETTLE         Total non-filterable residue (suspended) (00530)       SETTLE         Other:       SETTLE         Other:       SETTLE         Other:       SETTLE         Other:       SETTLE         Other:       SETTLE         Other:       SETTLE	SORPEO O ANO IT Check propo IF: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 9.2	<u> </u>	$\frac{(m \rho_R)}{NT \in O}$ S Filtered in 0.45 µmer ate analyzed	field with nbrane filter A: 2 5ml conc. HNO <sub>3</sub> ad Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residu (dissolved) (70300) Other: Cost	$\frac{1}{20}$ $\frac{1}{20}$ $\frac{1}{20}$ $\frac{1}{20}$ $\frac{1}{20}$ $\frac{1}{20}$ $\frac{1}{20}$ $\frac{1}{20}$ $\frac{1}{7}$	Sem (Ladde A: 4 (,2 ) 87 47 47 47 47 50 89 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80	d ul fumir Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l	FOAMY FOAMY Date analyz $\overline{\sigma} - 2\overline{7}$ " $\overline{\sigma} - 2\overline{7}$ " $\overline{7}$ " " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " $\overline{7}$ " " $\overline{7}$
WELL         BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples submitted       Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Imag	SORPEO O AND IT Check prop IF: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 92	<u> </u>	$\frac{Impr.}{MTEO}$ S Filtered in 0.45 µmer A: ate analyze	field with nbrane filter A: 2 5ml conc. HNO <sub>3</sub> ad F, NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Chloride (00945) Total filterable residu (dissolved) (70300) Chter: C F, A-H <sub>2</sub> SO <sub>4</sub>	$\frac{1}{20}$	Sem /L adde A: 4 /.2 7 87 47 47 47 47 47 47 47 47 47 47 47 47 47	d Units Units mg/l mg/l mg/l mg/l mg/l mg/l	FOAMY FOAMY $Date analyz \overline{O} - 2\overline{7}\overline{O} - 2\overline{7}$
WEW         BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples         submitted         Submitted         WA: No acid added         NA: No acid added         NA: No acid added         NALXTICAL RESULTS from         NF, NA         Conductivity (Corrected)         25°C (00095)         Total non-filterable         residue (suspended)         (00530)         Other:         Ammonia-N total (00610)	SORPEO AND IT Check prop IF: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 92	<u> <i>T</i>α</u> <u>         C∈C</u> Λ er boxes <b>F:</b> <u>         Units Da</u> μmho mg/l mg/l mg/l mg/l	$\frac{Im\rho_{R}}{NT \in \mathcal{O}}$ Filtered in 0.45 µmer	field with mbrane filter A: 2 5ml conc. HNO <sub>3</sub> ad WF, NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residu (dissolved) (70300) Chter: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate- dissolved (00631)	$\frac{1}{20}$ $\frac{1}{1}$ $1$	Sam /Ladde A: 4 / 87 47 47 47 47 47 47 47 47 47 47 47 47 47	d units Units mg/l mg/l mg/l mg/l mg/l mg/l	FOAMY FOAMY ang HNO <sub>3</sub> add Date analyz $\overline{B} - 2\overline{T}$ $\mu$ $\gamma'$ $\psi'$
WELL         BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples submitted       Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Imag	SORPEO O ANO IT Check propo IF: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 9.2	<u> </u>	$\frac{Im\rho_{R}}{NT \in O}$ S Filtered in 0.45 µmer ate analyzed	field with nbrane filter A: 2 5ml conc. HNO <sub>3</sub> ad F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlorice (00945) Total filterable residue (dissolved) (70300) Other: F, A-H <sub>2</sub> SO <sub>4</sub> Nitrate-N + , Nitrate- dissolved (00631) Ammonia-N dissolved (00609)	$\frac{1}{20}$ $\frac{1}{10}$	Sem (Ladde A: 4 (1,2) (1	d units Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	FOAMY FOAMY Date analyz $\overline{Date analyz}$ $\overline{\overline{Date analyz}}$ $\overline{\overline{Date analyz}}$
WELL         BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples         submitted         Submitted         MALYTICAL RESULTS from         NF, NA         Conductivity (Corrected)         25°C (00095)         Total non-filterable         residue (suspended)         (00530)         Other:         Other:         Other:         Other:         Other:         Total (00630)         Ammonia-N total (00610)         Total Kjeldahl-N         (         Chemical oxygen         demand (00340)	SORPEO O ANO IT Check propo IF: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 92	<u> <i>T</i>α</u> <u>CECA</u> <u>er boxes</u> <u>Inits Da</u> <u>units Da</u> <u>ung/l</u> <u>_</u> <u>ung/l</u> <u>_</u> <u>ung/l</u> <u>_</u> <u>ung/l</u> <u>_</u> <u>ung/l</u> <u>_</u> <u>ung/l</u> <u>_</u> <u>ung/l</u> <u>_</u> <u>ung/l</u> <u>ung/l l_ ung/l l_ ung/l l_ </u>	$\frac{Impr.}{NTEO}$ S Filtered in 0.45 µmer ate analyze	Image: Solution of the solution	$\frac{1}{20}$ $\frac{1}{1541}$ $\frac{1}{1541}$ $\frac{1}{1541}$ $\frac{1}{15}$ $\frac{1}{20}$ $\frac{1}{7}$ $\frac{1}{20}$ $\frac{1}{7}$	Sam /L adde A: 4 .2 .2	d units Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	FOAMY FOAMY Date analyz $\overline{C-27}$ " U U U U U U U U
WELL         BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples         submitted         WA: No acid added         MALXTICAL RESULTS from         NF, NA         Conductivity (Corrected)         25°C (00095)         Total non-filterable         residue (suspended)         (00530)         Other:	SORPEO AND IT Check propu- IF: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 92	<u> </u>	$\frac{Im\rho_{R}}{NT \in \mathcal{O}}$ Filtered in 0.45 µmer	field with mbrane filter	$\frac{1}{20}$ $\frac{1}{1}$ $1$	Sam /L adde A: 4 / 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	d units Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	$\frac{FoAm }{P}$
WELL         BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples submitted       Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Imag	SORPEO O ANO IT Check prop IF: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 9.2	<u> <i>T</i> α</u> <i>CEC Ω</i> <i>er boxes</i> <i>Inits Da</i> <i>μ</i> mho <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l</i> <i>mg/l mg/l mg/l</i>	$\frac{Im\rho_{R}}{NT \in O}$ S Filtered in 0.45 µmer ate analyze	field with nbrane filter A: 2 5ml conc. HNO <sub>3</sub> add Calcium (00915) Calcium (00915) Calcium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Coloride (00631) Ammonia-N dissolved (00608) Cotal Kjeldahl-N () Cother:	$\frac{1}{20}$ $\frac{1}{10}$	Sem /L adde A: 4 <i>1,2</i> <i>2</i> <i>7</i> <i>4</i> <i>7</i> <i>7</i> <i>7</i> <i>7</i> <i>7</i> <i>7</i> <i>7</i> <i>7</i> <i>7</i> <i>7</i>	d units Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	FOAMY FOAMY $Date analyz \overline{Date analyz}\overline{Date analyz}\overline{Dateanalyz}\overline{Date analyz}\overline{Date analyz}$
WEW         BUT       SETTLE         AMPLE FIELD TREATMEN         No. of samples         submitted         Submitted         Submitted         Submitted         Submitted         Submitted         Submitted         Submitted         NA: No acid added         Submitted         Notal non-filterable         residue (suspended)         (00530)         Cother:         Other:         Other:         Other:         Other:         Chemical oxygen         demand (00340)         Total organic carbon         (         Other:         Other:         Other:	SORPEO O ANO IT Check propo IF: Whole sample (Non-filtered) Other-specify: m SAMPLES C. 92	<u> </u>	$\frac{Im\rho_{R}}{NT \leq O}$ Filtered in 0.45 µmer ate analyzed	Image: Second control         field with mbrane filter         Imbrane filter	$\frac{2 \text{ ml } \text{H}_2 \text{SO}_4}{\text{Ided}}$ $\frac{14}{15.41}$ $\frac{15.41}{15.41}$ $\frac{15.41}{15.41}$ $\frac{15.41}{15.41}$ $\frac{15.41}{7}$ $15$	Sam /L adde A: 4 / / / / / / / / / / / / / / / / / / /	C         E           d         I           fum1r         mg/l           mg/l         mg/l	$\frac{FoAm }{Particle}$ $\frac{FoAm }{Particle}$ $\frac{Date analyz}{Particle}$ $\frac{FoAm }{Particle}$ $\frac$

New Mexico Hea SCIENTIFIC LAR 700 Camino de S Albuquerque, N	Nith and Environment Department BORATORY DIVISION Salud NE A 87106 — (505) 841-2555	PN GE		Y METALS NATER CHEMISTRY LOGEN ANALYSIS
DATE RECEIVED 8 /5 86 N Collection DATE 3 7 86 Collection TIME /0.35 Collected by - Person/Agency	AB HM-1548 COD Septer SITE INFORM- ATION Collection Interesting Col	5277728 5277728 111986	rher: 82 リモンム T マング	235 41-2 VR3W MESA
ENVIRONMEN SEND NM OIL CON FINAL State Land Santa Fe, Attn:David_Bo Phone: 827-58 SAMPLING CONDITIONS	SIL CONSER SI SERVATION DIVISION Office Bldg, PO Box 2088 NM 87504-2088 Yer	ANTA FE	Station/ well code Owner	26 FM.
Bailed Brump	Water level	Discharge		Sample type
Dipped Tap pH (00400)	Conductivity (Uncorrected)	Water Temp. (00010)	26 °C	Conductivity at 25°C (00094)
No. of samples submitted     X <ni< th="">       Image: State of samples     Image: Samples       Submitted     Image: Samples       Image: Samples     Image: Samples       Submitted     Image: Samples       Image: Samples     Image: Samples       Submitted     Image: Samples       Image: Samples     Image: Samples</ni<>	I - Check proper boxes         Whole sample         (Non-filtered)         F:         (Non-filtered)         F:         (Non-filtered)         Image: the sample of th	field with mbrane filter <b>A:</b> 2 5m1 conc. HNO <sub>3</sub> add	ml H <sub>2</sub> SO <sub>4</sub> /	'Ladded A: 4ml fuming HNO <sub>3</sub> added
ANALYTICAL RESULTS from		ALE NA	~	
Condentity (Corrector)	μmho	<ul> <li>Calcium (00915)</li> <li>Magnesium (00925)</li> <li>Sodium (00930)</li> </ul>		mg/l mg/l
Total non-filterable         residue (suspended)         (00530)         Cother:         Cother:         Cother:         Sector	mg/l	<ul> <li>Potassium (00935)</li> <li>Bicarbonate (00440)</li> <li>Chloride (00940)</li> <li>Sulfate (00945)</li> <li>Total filterable residue</li> </ul>		mg/l mg/l mg/l mg/l
NF, A-H <sub>2</sub> SO <sub>4</sub>		- (dissolved) (70300)		mg/l
□ Nitrate-N + , Nitrate-N         total (00630)         □ Ammonia-N total (00610)         □ Total Kjeldahl-N         ( )         □ Chemical oxygen         demand (00340)         □ Total organic carbon         ( )         □ Other:	mg/l mg/l mg/l mg/l mg/l	F, A-H2 SO4         Nitrate-N +, Nitrate-N         dissolved (00631)         Ammonia-N dissolve         (00608)         Total Kjeldahl-N         (         Other:	d 	mg/l mg/l mg/l enorted Beviewed by
				abound lucipluor ph

SLD 726 (12/84)

FOR OCD USE -- Date Owner Notified 10/31 Phone or letter? The Initials TB

Lab Number: FM 1548 Date Submitted: 8/15/86 By: Rover

Sample Dete: Schalk Well 41-2 Date Analyzed: 8/27/86 Reviewed By: Jin Rohly Date Reported: 8/29/86

Element	ICAP VALUE (MG/L)	AA VALUE (MG/L)
Aluminum	<u> </u>	
Barium	1.6	
Berylium	20.1	
Boron	0.6	
Cadmium	40.1	
Calcium	12.	
Chromium	<u> &lt;0.1</u>	
Cobalt	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Copper	<u> </u>	
Iron	11	
Lead	<0.1	
Magnesium	1.7	
Manganese	0.13	
Molybdenum	<0.	
Nickel	<0.1	·
Silicon	1.1	
Silver	<0.1	
Strontium	1.3	
Tin	20.1	
Vanadium	20.1	
Zinc	40.1	
Arsenic		<0,005
Selenium		<0.005
Mercury		20.0005