GW - <u>223</u>

GENERAL CORRESPONDENCE

YEAR(S): 200/ ~/995



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

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

July 5, 2001

CERTIFIED MAIL RETURN RECEIPT NO. 5357-7775

Mr. Damon E. Seawright AmeriCulture, Inc. HD 65, Box 260 C Animas, NM 88020

RE: Discharge Plan Renewal GW-223 AmeriCulture, Inc. Geothermal Aquaculture Facility Hidalgo County, New Mexico

Dear Mr. Seawright

The ground water discharge plan renewal application GW-223 for the AmeriCulture, Inc. Geothermal Aquaculture Facility located in the NE/4 NE/4 of Section 7, Township 25S, Range 19W, NMPM, Hidalgo County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe office within thirty (30) days of receipt of this letter. Please note new mailing address below.

The discharge plan renewal application letter, dated August 30, 2000, submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations includes all earlier applications and approvals and all conditions later placed on those approvals. The discharge plan is renewed pursuant to Section 3109.C. Please note Section 3109.G, which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve AmeriCulture, Inc. of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does it relieve AmeriCulture, Inc. of its responsibility to comply with any other governmental authority's rules and regulations.

Please be advised that all exposed pits, including lined pits and open tanks (exceeding 16 feet in diameter) shall be screened, netted or otherwise rendered nonhazardous to wildlife including migratory birds.

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City, State, ZIP+4 ANIMAS, NM 88020				
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Mr. Damon E. Seaw GW-223 July 5, 2001 Page 2

Please note that Section 3104 of the regulations provides: "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C, AmeriCulture, Inc. is required to notify the Director of any facility expansion, production increase or process modification that would result in any change in the discharge of water quality or volume.

Pursuant to Section 3109.H.4, this renewal plan is for a period of five years. This renewal **will expire on October 23, 2005**, and AmeriCulture, Inc. should submit an application in ample time before this date. Note that under Section 3106.F of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved

The discharge plan renewal application for the AmeriCulture, Inc. Geothermal Aquaculture Facility is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan application will be assessed a fee equal to the filing fee of \$50.00. There is a renewal flat fee assessed for geothermal facilities of \$690.00. The OCD has received the filing fee.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

Roger C. Anderson Chief, Environmental Bureau Oil Conservation Division

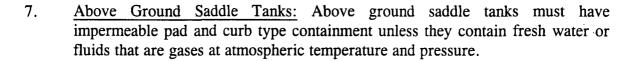
RCA/eem Attachment

Xc: OCD Santa Fe Office

Mr. Damon E. Seaw GW-223 July 5, 2001 Page 3

ATTACHMENT TO THE DISCHARGE PLAN RENEWAL GW-223 AMERICULTURE, INC. GEOTHERMAL AQUACULTURE FACILITY DISCHARGE PLAN APPROVAL CONDITIONS July 5, 2001

- 1. <u>Payment of Discharge Plan Fees:</u> The \$50.00 filing fee has been received by the OCD. There is a required flat fee for geothermal facilities of \$690.00 which may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due upon receipt of this approval. The OCD has received your first installment payment of \$138.00. All checks are to be made payable to Water Quality Management Fund and forwarded to the OCD Santa Fe Office. Please note new mailing address on letterhead.
- 2. <u>Commitments:</u> AmeriCulture, Inc. will abide by all commitments submitted in the discharge plan renewal application letter dated August 30, 2000 and these conditions for approval.
- 3. <u>Waste Disposal</u>: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.
- 4. <u>Drum Storage:</u> All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will 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 will also be stored on an impermeable pad and curb type containment.
- 5. <u>Process Areas:</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.
- 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 tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.



- 8. <u>Labeling:</u> All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.
- 9. <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.
- 10. <u>Underground Process/Wastewater Lines:</u> All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity every five (5) years. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.
- 11. <u>Class V Wells</u>: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.
- 12. <u>Housekeeping:</u> All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.
- 13. <u>Spill Reporting:</u> All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the OCD Santa Fe District Office.
- 14. <u>Transfer of Discharge Plan:</u> The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.

Mr. Damon E. Seaw at GW-223 July 5, 2001 Page 5

- 15. <u>Storm Water Plan:</u> The facility will have an approved storm water run-off plan.
- 16. <u>Closure</u>: The OCD will be notified when operations of the **Geothermal** Aquaculture Facility are discontinued for a period in excess of six months. Prior to closure of the **Geothermal Aquaculture Facility**, the Director will submit a closure plan for approval. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.
- 17. <u>Conditions accepted by:</u> AmeriCulture, Inc., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. AmeriCulture, Inc. further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

AmeriCulture, Inc.
Print Name:
Signature:
Title:
Date:

NM OIL CONSERVATION DIVISION ATTN: DONNA DOMINGUEZ 1220 S. ST. FRANCIS DR. SANTA FE, NM 87505

AD NUMBER: 192173 ACCOUNT: 56689 LEGAL NO: 68789 P.O.#: 01199000033 189 LINES 1 time(s) at \$ 83.31 AFFIDAVITS: 5.25 TAX: 5.54 TOTAL: 94.10

TRVATION STVISSION

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant. to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-223) - Americulture, Inc., Damon E. Seawright, Vice President, HD 65 Box 260 C, Animas, New Mexico 88020 has submitted a renewal applica-tion for their previously approved discharge plan for geothermal heating of a fish farm complex located in Section 7, Township 25 South, Range 19 West, NMPM, Hidalgo County, New Mexico. Atter heat is extracted from approximately 60,000 gallons per day of geother-mal water, using a heat exchanger system, the cooled effluent stream will be discharged into a shallow trench and used to supply water for range cattle on adjacent ranch property. The geothermal water has an average total dissolved solids con-tent of 1,050 mg/l. The groundwater most likely to be affected by any accidental discharge is geothermal and is at a depth of approximately 52 feet with a total dissolved solids concentration of about 1,050 mg/l. The disaddresses charge plan how spills, leaks and other accidental dischargesto the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the I, Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, this 23rd day of January, 2001.

> STATE OF NEW MEXICO OIL CONSERVATION DIVISION LORI WROTENBERY, Director

Legal #68789 Pub. February 8, 2001 AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO COUNTY OF SANTA FE

EW SANTA FE

Founded 1849

B uner being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #68789 a copy of which is hereto attached was published in said newspaper 1 day(s) between 02/08/2001 and 02/08/2001 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 8 day of February, 2001 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

n ィス /S/_ LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 8 day of February A.D., 2001

Notary Commission Expires



OFFICIAL SEAL Janet L. Montoya NOTARY PUBLIC - STATE OF NEW MEXICO MY COMMISSION EXPIRES_12/30/03

www.sfnewmexican.com



NEW EXICO ENERGY, MEIERALS and NATURAL RESOURCES DEPARTMENT

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

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Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 23rd day of January, 2001.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY, Director

SEAL

District 811 Sou District 1000 Rid District	French Dr., Hobbs, NM 88240 [] h First, Artesia, NM 88210 []] b Brazos Road, Aztec, NM 87410	State of New Energy Minerals and N Oil Conservation 2040 South P Santa Fe, NM			Revised March 17, 1999 Submit Original Plus 1 Copy to Santa Fe 1 Copy to Appropriate District Office
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	🗌 New	😠 Renewal	Modificatio	n	GW-223
1. Ty	pe: <u>Geothermal Aquacu</u>	lture Facility	<u></u>		
	erator: <u>AmeriCulture</u> ,				
Ac	ldress: HD 65 Box 260	C Animas, NM 8	8020		
Сс	ontact Person: <u>Damon Seawri</u>	ght, Vice-Presid	entPhone:	505-548-	2328
3. Lo	cation: <u>NE</u> /4 <u>NE</u> Submit la	/4 Section7 rge scale topographic map eviously approved	Township o showing exact loo discharge	<u>255</u> R cation. plan	
5. At	tach the description of the facility w	vith a diagram indicating le	ocation of fences, j	oits, dikes and t	anks on the facility.
6. At	tach a description of all materials st	ored or used at the facility	·.		
	tach a description of present sources ist be included.	s of effluent and waste sol	ids. Average qual	ity and daily vo	lume of waste water
8. At	tach a description of current liquid a	and solid waste collection/	treatment/disposal	procedures.	
9. At	tach a description of proposed modi	fications to existing collec	ction/treatment/dis	posal systems.	
10. A	ttach a routine inspection and maint	enance plan to ensure per	nit compliance.		
11. A	ttach a contingency plan for reportin	ng and clean-up of spills o	r releases.		
12. A	ttach geological/hydrological inform	nation for the facility. Dep	pth to and quality o	of ground water	must be included.
	ttach a facility closure plan, and oth les, regulations and/or orders.	er information as is necess	sary to demonstrate	e compliance w	ith any other OCD
	4. CERTIFICATIONI hereby certif est of my knowledge and belief.	y that the information sub	mitted with this ap	pplication is true	e and correct to the
N	ame: Damon E. Seawrig	ht	Title: <u>Vice</u>	-President	
S	ignature:	-	Date: <u>Augu</u>	<u>st 30, 200</u>)0

NEW MEXICO ENVIRONMENT DEPARTMENT REVENUE TRANSMITTAL FORM

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3_	Air Quality Title V	248	14	1400	9696	900000	4969014		4
4_	PRP Prepayments		14	1400	9696	900000	4989015		5
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8_	Hazardous Waste Annual Generator Fees	339	29	2100	2329	900000	2329029	فكالباطي فني جب حصي يعبدي	10
10_	Water Quality - Oil Conservation Division	341	29	2900	1096	900000	4189029	138.00	11
11_	Water Quality - GW Discharge Permit	341	31	2500	1696	900000	4169031	and the second	12
12_	Air Quality Permits	631	33	2000	2919	900000	2919033		13
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*14_	Xerox Copies	652			2349	900000	2349002		15
15	Ground Water Penalties	652	34		2349	900000	2439003		16
16	Witness Fass	652	34		2349	900000	2349004		17
17	Air Quality Penalties	652	34		2348	900000	2349005		18
18	OSHA Penaities	652	34			900000	2349005		19
19	Prior Year Reimbursement	652	34		2349	900000	2349009		20
20	Surface Water Quality Certification	652	34		2349		2349003	بەر	21
21	Jury Duty	8 52	34		2349	900000			22
22	CY Reimbursements (I.e. telephone)	652	34		2349	900000	2349014		•23
*23	UBT Owner's List	783	24	2500	9696	900000	4969201		*24
+24	Hazerdous Waste Notifiers List	783	24	2500	9696	900000	4959202		
*25	UST Maps	783	24	2500	9696	900000	4989203		*25
*26	UST Owner's Update	783	24	2500	9696	900000	4969205		*26
+28	Hazardous Waste Regulations	783	24	2500	9696	900000	4959207	Comparison of the second s	•28
129	Radiologic Tech. Regulations	783	24	2500	9696	900000	4969208		*29
•30	Superfund CERLIS List	783	24	2500	9696	900000	4989211	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*30
31.	Bolid Waste Permit Fees	783	24	250 0	9696	900000	4969213		31
32	Smoking School	783	24	2500	9696	800000	4969214		32
*33	SWQB - NP5 Publications	783	24	2500	9696	900000	4969222		*33
*34	Radiation Licensing Regulation	783	24	2500	9696	900000	4969228		*34
*35	Sale of Equipment	783	24	2500	969 6	900000	4969301		*35
*36	Sale of Automobile	783	24	2500	9698	900000	49 69302	And the same second sec	•36
*37	Lust Recoveries	783	24	2500	9698	900000	496 9814		•37
*38	Lust Repayments	783	24	2500	9696	9 0 0000	4969615	#1	•38
39	Surface Water Publication	783	24	2500	9696	800000	4969801	والمراجعة المعاليب المطلو	39
40	Excen Reese Drive Ruidoso - CAF	783	24	2500	9698	900000	4989242		40
40	Emerg, Hazardous Waste Penalties NOV	957	32	9600	1898	900000	4164032		41
42	Radiologic Tech. Certification	987	05	0500	1896	900000	4169005		42
44	Ust Permit Fees	989	20	3100	1696	900000	4169020		44
45	UST Tank Installers Fees	989	20	3100	1696	900000	4169021		45
45	Food Permit Fees	991	26	2600	1696	900000	4169026		46
40	Other								43
40 _									

* Gross Receipt Tax Required

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- Site Name & Project Code Required

TOTAL __________

Phone: <u>827-7151</u> Date: <u>12/13/00</u> Date: EO MARTIN Contact Person: ST # : ____ _____ RT#: Date: Received in ASD By;

FSB025 Revised 07/07/00

11

ACXNOWLEDGEMENT OF RECEIPT OF CHECX/CASH

I hereby acknowledge receipt of check No. 2872 dated $\frac{1}{30}/00$
or cash received on $\frac{ 2/ 3/00}{11}$ in the amount of \$ $\frac{ 38.00}{11}$
from AMERICULTURE, INC.
for <u>ANIMAS VALLEY FISH FARM</u> <u>GW-223</u>
Submitted by: Date:
Submitted to ASD by: <u>FO MARTIN</u> Date: 12/13/00
Received in ASD by:Date:
Filing Fee New Facility Renewal
Modification Other
(aquenty)
Organization Code <u>521.07</u> Applicable FY <u>2001</u>
To be deposited in the Water Quality Management Fund.
Full Payment or Annual Increment PARTIAL

AMERICULTURE, INC.			2872
Gil Conservation Division	Clear Number: Check Date:	2872 Nov 30, 2000	
	Check Amount:	\$138.00	
Item to be Paid - Description	Discount Taken	Amount Paid	
Licenses and Fees		138.00	
GW-223			
AMERICULTURE, INC. (505) 662-6928 190 CENTRAL PARK SQUARE LOS ALAMOS, NM 87544	LOS ALAMOS NATIONAL BANK LOS ALAMOS, NM 87544 95-101/1070	2	2872
	DATE	AMOL	JNT
Memo:	Nov 30, 2000	**************	8.00*
PAY One Hundred Thirty-Eight and 0/100 Dollars TO THE ORDER OF:			
Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505	Anne	MAncoh	MP
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NEW MEXICO ENERGY, MENERALS and NATURAL RESOURCES DEPARTMENT

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

July 10, 2000

Mr. Damon E. Seawright Americulture, Inc. HC P.O. Box 265B Animas, NM 88020

Dear Mr. Seawright:

We hereby acknowledge receipt of your check for \$50.00 to cover the filing fee for the renewal of your discharge plan GW-223.

Enclosed is a discharge plan renewal form that must be completed by you. Please fill out all applicable blanks. If information requested in the application is already included in your original discharge plan application, please so indicate and reference the original application. If any information has changed from the original, please attach the updated information.

I understand that you are contemplating some minor modifications to your system in the near future. Please keep us informed of your progress and submit any additional paperwork necessary as these modifications affect the original discharge plan.

In addition to the application for renewal, a renewal fee of one-half the original fee for geothermal facilities, in the amount of \$690.00 is due. This renewal fee may be paid in one lump sum or in five equal installments, one each year, for the duration of the plan.

If you have any questions, please contact me.

Sincerely,

Ed Martin Environmental Bureau

Ameri Culture

June 9, 2000

Ed Martin Environmental Bureau NM Energy, Minerals, and Natural Resources Dept. Oil Conservation Division 2040 S. Pacheco St. Santa Fe, NM 87505

Dear Ed:

This letter is written in response to your letter, dated April 3, 2000, in which you indicated that AmeriCulture's groundwater discharge plan GW-223 was up for renewal. The letter specified that if we requested an extension to our existing plan in writing before June 23, 2000, along with a renewal application fee of \$50.00, that the plan would be extended an additional 5 years. It is AmeriCulture's intention to renew the plan, so accordingly, I have enclosed herewith a check in the amount of \$50.

Please contact me if you need anything else to complete the renewal process.

Sincerely,

Damon E. Seawright Vice-President, Operations

AmeriCulture Inc.

HC 65 Box 260 C, Animas, NM 88020 • Ph: 888.TILAPIA Fax: 505.548.2631 e-mail: americulture@vtc.net • www.americulture.com

ACXNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt	of check No. 10186 dated $6/9/00$,
or cash received on $\frac{7/5}{0}$	0 in the amount of \$ <u>50.00</u>
from <u>AMERICULTURE</u> , INC	
for	GW-223
Submitted by:	Date:
Submitted to ASD by: Eo Ma	A Martis Date: 7/10/00
Received in ASD by:	Date:
Filing Fee New Fac	cility Renewal
Modification Other	
Organization Code <u>521.07</u> To be deposited in the Water Full Payment or A	
AMERICULTURE, INC. (505) 548-2328 HC 65/PO BOX 260C ANIMAS, NM 88020	WESTERN BANK LORDSBURG. NM 88045-0490 95-82/1122 10186
	Jun 9, 2005 **********
Memo: Fifty and 0/100 Dollars	
PAY	
TO THE NM Energy & Nat. Res. Dept. ORDER OF:	Duplicate
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ALCOURSESSION OF ALCOUNTS AND ALCOUNTS

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New Mexico Environment Department Revenue Transmittal



	Description	Fund	CES	DFA Org.	DFA ED Acct. Org.	ED Acct.	Amount
4	CY Reimbursement Project Tax	064	. 01				1
2	Gross Receipt Tax	064	01		2329 90000	0 2329134	2
3	Air Quality Title V	092	13	L	1690 90000		
<u>م</u>	PRP Prepayments	248	14		9690 90000	0 4969014	4
5	Climax Chemical Co.	248	14		9690 90000		5
6	Circle K Reimbursements	248	14		9690 90000		6
7	Hazardous Waste Permits	339	27	•	1690 90000		7
8	Hazardous Waste Annual Generator Fees	339	27	,	1690 90000		8
9	Water Quality - Drinking Water	340	28		1690 90000		
10	Water Quality - Oil Conservation Division	341	29		2329 90000		
11	Water Quality - GW Discharge Permit	341	29	l	1690 90000		11 9.0
12	Air Quality Permits	631	31		1690 90000		12
13	Payments under Protest	651	33	1	2919 90000		
* 14	Xerox Copies	652	34		2349 90000		14
15	Ground Water Penalties	652	34		2349 90000		15
16	Witness Fees	652	34		2349 90000		16
17	Air Quality Penalities	652	34		2349 90000		17
18	OSHA Penalties	652	34		2349 90000		18
19	Prior Year Reimbursement	652	34		2349 90000		19
20	Surface Water Quality Certification	652	34		2349 90000		20
21	_Jury Duty	652	·· 34		2349 90000		21
. 22	CY Reimbursements (i.e.: telephone)	652	34		2349 90000		22
* 23	UST Owners List	783	24		9690 90000		23
* 24	Hazardous Waste Notifiers List	783	24		9690 90000		24
* 25	UST Maps	783	24		9690 90000		25
* 26	UST Owners Update	783	24		9690 90000		26
* 28	Hazardous Waste Regulations	783	24		9690 90000		28
* 29	Radiologic Tech. Regulations	783	24		9690 90000		29
* 30	_Superfund CERCLIS List	783	24		9690 90000		30
* 31	Solid Waste Permits Fees	783	24		9690 90000		31
32	_Smoking School	783	24		9690 90000		32
* 33	_SWQB - NPS Publications	783	24		9690 90000		33
* 34	_Radiation Licensing Regulations	783	24		9690 90000		
* 35	_Sale of Equipment	783	24		9690 90000		
* 36	_Sale of Automobile	783	24		9690 90000		
** 37	_Lust Recoveries	783	24		9690 90000		37
** 38	Lust Prepayments	783	24		9690 90000		
39	_Surface Water Publication	783	24		9690 90000		
40	_Exxon Reese Drive Ruidoso - CAF	783	24		9690 90000		
41	_Emerg. Hazardous Waste Penalties NOV	957	32		1640 90000		
42	_Radiologic Tech. Certification	987	05		1690 90000		
44	_UST Permit Fees	989	20		1690 90000		44 45
45	UST Tank Installers Fees	989	20		1690 90000		
46	Food Permit Fees	991	26	I	1690 90000	1 4109020	48
43	Other						43
* Gross F	Receipt Tax Required ** Site Name & Proj	ect Code	Requ	ired		TOTAL:	· · · · · · · · · · · · · · · · · · · ·
Contact P	Person: <u>ED MARTIN</u>	Phone	:#: <u>8</u> @	<u> 27-7</u>	2/5/_Date:_	7/10/	00
	in ASD By:						
FSB025							

AMERICULTURE, INC. NM Energy & Nat. Res. Pept.	10186 Check mber: 10186 Chec Date: Jun 9, 2000 Duplicate Check Amount: \$50.00
Item to be Paid - Description	Discount Taken Amount Paid
Renewal Fee for GW-223	50.00

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NEW MEXICO EN RGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

April 3, 2000

Mr. Damon E. Seawright Americulture, Inc. HC P.O. Box 265B Animas, NM 88020

Dear Mr. Seawright:

Thank you very much for the tour of your facility. It was very interesting. As promised, enclosed is a copy of our inspection report and copies of the photographs Wayne Price took while we were there.

Please be advised that your groundwater discharge plan GW-223 will expire on October 23, 2000. <u>Water Quality Control Commission rule 3106.F states:</u> "If the holder of an approved discharge plan submits an application for discharge plan renewal at least 120 days before the discharge plan expires, and the discharger is not in violation of the approved discharge plan on the date of its expiration, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. A discharge plan continued under this provision remains fully effective and enforceable. An application for discharge plan renewal must include and adequately address all of the information necessary for evaluation of a new discharge plan. Previously submitted materials may be included by reference provided they are current, readily available to the secretary and sufficiently identified to be retrieved. [12-1-95]

We look forward to receiving your renewal application on or before June 23, 2000 along with the renewal application fee of \$50.00. Additionally, the flat fee for renewal for a geothermal facility is \$690.00, which may be paid in a single payment or in five equal installments. The first installment is due on the date of the discharge plan approval and the remaining four are due on the same date annually during the duration of the discharge plan.

Again, thanks for the hospitality.

Sincerely,

Martin

Ed Martin Environmental Bureau

OCD ENVIRONMENTAL BUREAU

SITE INSPECTION SHEET

DATE: $\frac{3/15/00}{\text{Time:}}$ /: 30pm
Type of Facility: Refinery Gas Plant Compressor St. Brine St. OilField Service Co. Surface Waste Mgt. Facility E&P Site Crude Oil Pump Station Image: Surface Waste Mgt. The surface Waste Mgt. Facility E&P Site Crude Oil Pump Station Image: Surface Waste Mgt.
Other A. <u>GEO-THERMAL</u> FISH FARM Discharge Plan: No Dyes BY DP# <u>G-W-223</u>
FACILITY NAME: AMERICULTURE FISH HATCHERY PHYSICAL LOCATION: ~ 15 MILES 5W OF LORDS BURG NM
Legal: QRTQRTSec_7_TS 255 R 19 W County_HilALJO
OWNER/OPERATOR (NAME) DAMON SEA WRIGH ± - Contact Person: 5AME Tele:#
ADDRESS: HC 65 BOX 260 C ANIMAS State NM ZIP 88020 Owner/Operator Rep's: DAMIN SEA 2R19Ht

OCD INSPECTORS: 20 PRICE & FO MARtIN

11

1. <u>Drum Storage</u>: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will 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 will also be stored on an impermeable pad and curb type containment.

2. <u>Process Areas:</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.

OK

OK

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3. <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 tanks or existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.

OCD Inspection Sheet Page ____ of ____

DIESEL + GASOLINE TANKS DO NOT HAVE PROPER CONTAINMENT 4. <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. SAME AS #3 5. Labeling: All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information. OK 6. <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 to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing. N.A. 7. <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, or prior to discharge plan renewal. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing. N. A . 8. <u>Onsite/Offsite Waste Disposal and Storage Practices:</u> Are all wastes properly characterized and disposed of correctly? Does the facility have an EPA hazardous waste number? <u>Yes</u> No ARE ALL WASTE CHARACTERIZED AND DISPOSED OF PROPERLY? YES 🗗 NO 🗇 IF NO DETAIL BELOW. OCD Inspection Sheet Page ____ of ____

9. <u>Class V Wells:</u> Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. All Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Closure of Class V wells must be in accordance with a plan approved by the Division's Santa Fe Office. The OCD allows industry to submit closure plans which are protective of human health, the environment and groundwater as defined by the WQCC, and are cost effective. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

ANY CLASS V WELLS NO DY YES D IF YES DESCRIBE BELOW ! Undetermined D

10. <u>Housekeeping:</u> All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.

6000

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

OK

12. Does the facility have any other potential environmental concerns/issues?

NONE OBSERVED

13. Does the facility have any other environmental permits - i.e. SPCC, Stormwater Plan, etc.?

14. ANY WATER WELLS ON SITE ? NO 🗆 YES 🖄 IF YES, HOW IS IT BEING USED ?

GEOTHERMAL WELLS ONLY

Miscellaneous Comments:

Number of Photos taken at this site: ____7_____

OCD Inspection Sheet Page ____ of ____

Americulture Talopia Fish Hatchery GW-223 March 15, 2000 pictures by Wayne Price



Geothermal well located east of fish hatchery. Hatchery in background. Looking west. System is a closed look heating system



Geothermal discharge temperature gage.



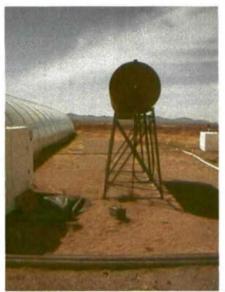
Fishhouse- heating pipes.



Fish tanks discharge pond. Mostly fresh water. SW of fish houses. Looking SW.



Geothermal heat exchanger and fish breeding house discharge water area. West of fish houses.



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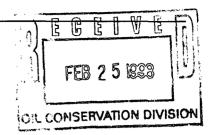
Diesel tank for standby generators. Looking west.



Gasoline tank. Looking NE

AmeriCulture, Inc.

AmeriCulture, Inc. - 901 18th Street - Los Alamos, NM - 87544



NMED-Water Quality Management Oil Conservation Division 2040 South Pacheco Street Santa Fe, NM 87505

Dear Sirs/Madams:

In response to Mr. Roger Anderson's letter of February 17, 1998, I am sending enclosed a check in the amount of \$1,104 in payment of the outstanding amount on the flat fee that AmeriCulture, Inc., owes on the discharge plan GW-223.

Thank you for reminding us that the outstanding amount was due.

Sincerely,

Gary L. Seawright

President



1,104.00

tem to be Paid - Descriptio.

Licenses and Fees

GW-223

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASE

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	I hereby acknowledge			. ,
	or cash received on	· · · · · · · · · · · · · · · · · · ·	in the amount	of \$ <u>1104.00</u>
	from <u>america</u>	in Arus		·
	for			610-223
	Submitted by:		• Date	(DP Ne.)
	Submitted to ASD by:	Rad	Date	
	Received in ASD by:		Date	
	Filing Fee	New Facility		
	Modification	-		
		(aga		
·	Organization Code To be deposited in t Full Payment	he Water Quali	ty Management i	fund.
	To be deposited in t	he Water Quali	ty Management i	
	To be deposited in t	he Water Qualit	ty Management i	rund.
	To be deposited in t Full Payment AMERICULTURE, INC. (505) 662-6928 901 18TH ST.	he Water Qualit	CY Management	fund.
Memo:	To be deposited in t Full Payment	he Water Qualit	cy Management I Increment > 7 OS ALAMOS NATIONAL BANK LOS ALAMOS, NM 87544 95-101/1070	Pund. 55 of 5 1285 AMOUNT
	To be deposited in t Full Payment AMERICULTURE, INC. (505) 662-6928 901 18TH ST. LOS ALAMOS, NM 87544	he Water Qualit	cy Management I Increment > 7 OS ALAMOS NATIONAL BANK LOS ALAMOS, NM 87544 95-101/1070	Pund. 55 of 5 1285 AMOUNT

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NEW MEXICO EVERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

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

February 17, 1998

CERTIFIED MAIL RETURN RECEIPT NO. P-288-259-025

Mr. Gary L. Seawright AmeriCulture, Inc. 536 Paul Place Los Alamos, NM 87544

Discharge Plan Fees GW-223 Re: **Fish Farm Complex** Hidalgo County, New Mexico

Dear Mr. Seawright:

On October 23, 1995, AmeriCulture, Inc. received, via certified mail, a letter from the New Mexico Oil Conservation Division (OCD) stating that the discharge plan GW-223 for the Fish Farm Complex was approved. In that letter it also stated that, in accordance with Water Quality Control Commission Regulation (WQCC) 3114, a \$50 filing fee and a \$1,380 flat fee were required upon receipt of the approval letter. The \$50 filing fee and one installment payment (\$276) of the flat fee have been received by the OCD. As of this date, there is a remaining amount of \$1,104. The last installment received by the OCD was May 31, 1996. Please submit the remaining \$1,104 flat fee in full by March 17, 1998.

Please make all checks payable to: NMED-Water Quality Management and addressed to the OCD Santa Fe Office.

If you have any questions, please contact me at (505)-827-7152 or Mark Ashley at (505) 827-7155.

Sincerely,

20

Roger Anderson Environmental Bureau Chief

RCA/mwa

P 288 259 025

	US Postal Service Receipt for Cerr No Insurance Coverage Do not use for Internation Sent to Street & Number Post Office, State, & ZIP Cod	Provided. nal Mail <i>(See reverse)</i>
	Postage Certified Fee	\$
	Special Delivery Fee	
ril 1995	Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to Whom,	
3800, Ap	Date, & Addressee's Address TOTAL Postage & Fees	\$
PS Form 3800, April 1995	Postmark or Date	

AmeriCulture, Inc.

536 Paul Place Los Alamos, NM 87544 DEGEDVE MAY 29 1996

May 23, 1996

NMED-Water Quality Management Oil Conservation Division P.O. Box 6429 Santa Fe, NM 87505-6429

Re: Discharge Plan GW-223 Extension Fish Farm Complex Hildago County, New Mexico

Dear Sirs/Madams:

Enclosed is a check in the Amount of 276.00, in payment of the first of five annual installments of the Discharge Plan Flat Fee totaling 1,380.00. In hope that this meets with your approval, I am,

Sincerely,

Gary L. Seawright President

cc Damon E. Seawright Mark Ashley

Mark - Ihon the remade -

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. 175 dated $\frac{1}{2}/\frac{2}{2}/\frac{4}{2}$
or cash received on in the amount of \$ _276.60_
from americanture
tor Fish Farm <u>GW-223</u>
Submitted by: Data:
Submitted to ASD by: Radan Date: 5/31/96
Received in ASD by: Lyonne Salange Date: 5/31/96
Filing Fee New Facility Renewal
Modification Other
Organization Code <u>521.07</u> Applicable FY <u>96</u>
To be deposited in the Water Quality Management Fund.
Full Payment or Annual Increment
$\frac{\text{AmeriCulture, Inc.}}{536 \text{ PAUL PL. PH. 505-672-0013}} \\ \text{LOS ALAMOS, NM 87544} \\ \frac{5}{100000000000000000000000000000000000$

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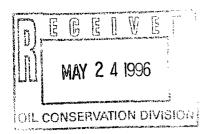
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Los Alamos Nationai Bank P.O. Box 60, (505) 662-5171 Los Alemos, NM 87544

MEMO.



AmeriCulture, Inc.

536 Paul Place Los Alamos, NM 87544

May 23, 1996

NMED-Water Quality Management Oil Conservation Division P.O. Box 6429 Santa Fe, NM 87505-6429

Re: Discharge Plan GW-223 Extension Fish Farm Complex Hildago County, New Mexico

Dear Sirs/Madams:

Enclosed is a check in the Amount of 276.00, in payment of the first of five annual installments of the Discharge Plan Flat Fee totaling 1,380.00. In hope that this meets with your approval, I am,

Sincerely, a

Gary L. Seawright President

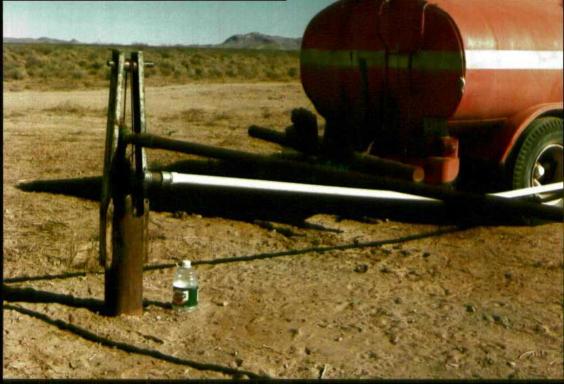
сс	Damon E. Seawright
	Mark Ashlev

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NM 87505

















NEW MEXICO ENERGY, I NERALS AND NATURAL PSOURCES DEPARTMENT

OIL CONSERVATION DIVISION

October 23, 1995

CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-784

Mr. Gary L. Seawright AmeriCulture, Inc. 536 Paul Place Los Alamos, NM 87544

Re: Discharge Plan GW-223 Approval Fish Farm Complex Hidalgo County, New Mexico

Dear Mr. Seawright:

The groundwater discharge plan, GW-223, for the AmeriCulture, Inc. Fish Farm Complex located in Section 7, Township 25 South, Range 19 West, NMPM, Hidalgo County, New Mexico, is hereby approved under the conditions contained in the enclosed attachment. The application consists of the original discharge plan application dated August 14, 1995.

The discharge plan application was submitted pursuant to section 3-106 of the Water Quality Control Commission Regulations. It is approved pursuant to section 3-109.A. Please note Sections 3-109.E and 3-109.F., which provide for possible future amendments or modifications of the plan. Please be advised that approval of this plan does not relieve you of your liability should your operation result in pollution of surface or ground waters, or the environment.

Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that Section 3-104 of the regulations requires that "when a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3-107.C. you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

OFFICE OF THE SECRETARY - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5950 ADMINISTRATIVE SERVICES DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6439 - (505) 827-5925 ENERGY CONSERVATION AND MANAGEMENT DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5920 FORESTRY AND RESOURCES CONSERVATION DIVISION - P. O. BOX 6429 - SANTA FE, NM 87505-6429 - (505) 827-5930 MINING AND MINERALS DIVISION - P. O. BOX 6429 - SANTA FL, NM 87505-6429 - (505) 827-5930 OLL CONSERVATION DIVISION - P. O. BOX 6429 - SANTA FL, NM 87505-6429 - (505) 827-5930 OLL CONSERVATION DIVISION - P. O. BOX 6429 - SANTA FL, NM 87505-6429 - (505) 827-7970 OLL CONSERVATION DIVISION - P. O. BOX 6429 - SANTA FL, NM 87505-6429 - (505) 827-7131 PARK AND RECRETION DIVISION - P. O. BOX 147 - SANTA FL, NM 87504-1147 - (505) 827-7465 Mr. Gary L. Seawright October 23, 1995 Page 2

Pursuant to Section 3-109.G.4., this approval is for a period of five years. This approval will expire October 23, 2000, and an application for renewal should be submitted six months before that date.

The discharge plan renewal application for the AmeriCulture, Inc. Fish Farm Complex is subject to WQCC Regulation 3-114. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of \$50 plus \$1,380.00 flat fee for geothermal facilities. The \$50 filing fee was received by the New Mexico Oil Conservation Division (OCD) on September 12, 1995. The OCD has not received your flat fee, which may be paid in a single payment or in five equal installments over the expected duration of the discharge plan. Installment payments shall be remitted yearly, with the first installment due on the date of the discharge plan approval.

Please make all checks payable to: NMED-Water Quality Management and addressed to the OCD Santa Fe Office.

On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge plan review. If you have any questions, please contact Mark Ashley of my staff at (505) 827-7155.

Sincerely William J. LeMa Director WJL/mwa Attachments

ATTACHMENT TO THE DISCHARGE PLAN GW-223 APPROVAL AMERICULTURE, INC. FISH FARM COMPLEX DISCHARGE PLAN REQUIREMENTS (October 23, 1995)

- 1. <u>Payment of Discharge Plan Fees:</u> The required flat fee of \$1,380.00 may be paid in a single payment or in equal installments over the expected duration of the discharge plan. Installment payments shall be remitted yearly, with the first installment due on the date of the discharge plan approval and subsequent installments due on this date of each calendar year.
- 2. <u>Sump Construction:</u> All new or rebuilt sumps and below-grade tanks will be approved by the OCD prior to installation and will incorporate secondary synthetic containment and leak detection in their designs. All leak detection systems will be inspected weekly and the OCD Santa Fe office will be notified immediately upon discovery of fluids in any leak detection system.
- 3. <u>Drum Storage:</u> All chemical and lubrication drums shall be stored on pad and curb type containment.
- 4. <u>Tank Berming:</u> All tanks that contain materials other than fresh water will be bermed to contain one and one-third times the capacity of the tank.
- 5. <u>Spill Reporting:</u> All spills and/or leaks shall be reported to the OCD Santa Fe and Artesia offices pursuant to WQCC Rule 1-203 and OCD Rule 116.
- 6. <u>Annual Reporting:</u> The volume and quality of the water discharged onto the ground surface will be reported to the OCD annually. Analyze for major cations and anions.
- 7. <u>Water Additives:</u> The discharged water will not be treated with any additives or chemicals without prior OCD approval.
- 8. <u>Discharge Control</u>: The water will be discharged and controlled in such a manner that there is no erosion of soils or flooding of the discharge ditch and livestock pond.
- 9. <u>Well Workover Operations:</u> OCD approval will be obtained from the director prior to performing remedial work or any other workover. Approval will be requested on OCD Form C-103 "Sundry Notices and Reports on Wells" (OCD Rule 1103-A) with appropriate copies sent to the OCD Artesia office.
- 10. <u>Closure:</u> The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

11. <u>Transfer of Discharge Plan:</u> Prior to any transfer of ownership, control, or possession of your facility, the OCD will be notified. A written request must be submitted and approved by the OCD prior to the transaction.

	Sent to	
	Street and No.	
	P.O., State and ZIP Code	
	Postage	\$
	Certified Fee	
	Special Delivery Fee	
March 1993	Restricted Delivery Fee	
	Return Receipt Showing to Whom & Date Delivered	
	Return Receipt Showing to Whom, Date, and Addressee's Address	
, 0	TOTAL Postage & Fees	\$
PS Form 3800, March 1993	Postmark or Date	

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NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan application following discharge plan application and renewal application have been submitted to the Director of the Oil Conservarion Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131: (GW-223) - Americulture, inc., Gary L. Seawright, 536 Paul Place, Los Alamos, New Mexico 87544, has sub-mitted a discharge plan

mitted a discharge plan application for their geoth-ermal heating of a jish farm

complex located in Section 7, Township 25 South, Range 19 West, NMPM, Hidalgo County, New Mex-ico, After heat is extracted from approximately 60,000 gallons per day of geoth-ermal water using a heat exchanger system. the exchanger system, the cooled effluent stream will be disposed into a shallow trench and used to supply a water source for range cattle water source for range cattle on adjacent ranch property. The geothermal water has an average total dissolved/ solids content of 1,050 mg//. The uppermost groundwater most likely to be affected by any accidental discharge is geothermal and is at a depth of approximately 523 feet of approximately 523 feet with a total dissolved solids concentration of about 1,050 with a total dissolved solids concentration of about 1,050 mg/l. The discharge plan addresses how spills, leaks and other accidental dis-charges to the surface will be managed be managed.

Section 33

(GW-032) - GIANT REFINING Company, Mr. Lynn Shelton, (505)-722-3833, Route 3, Box 7, Gallup, New Mexico 87031 has submitted a Rare-B7031 has submitted a René-wal application for the pre-viously approved discharge plan for their Ciniza Agrinery located in Section 28, Town-ship 15 North, Range 15 West, NMPM, Mckinley County, near Gallup, New Mexico. The Renewal application consists of the Renewal permit dated Au-gust 14, 1991 and the subse-quent Modifications dated gust 14, 1991 and the subse-quent Modifications dated August 21, 1992, September 21, 1993, March 15, 1994, and June 14, 1995. Groundwater most likely to be affacted by a call, lack be affected by a spill, leak, or accidental discharge to the surface varies in depth from 70 feet to 140 feet with trom 70 feet to 140 feet with an approximate total dis-solved solids concentration of 950 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed. Any interested person may obtain further information from the Oil Con-servation Division and may submit written comments to the Director of

written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan applications may be reviewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to any ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of bays after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest If no hearing is held, the Director will

approve or disapprove the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information presented at the hearing. GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 30th

day of August, 1995. STATE OF NEW MEXICO OIL CONSERVATION DIVISION s/WILLIAM J. LEMAY, Director

STATE OF NEW MEXICO County of Bernalillo SS

Bill Tafoya being duly sworn declares and says that he is Classified Advertising manager of The Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto-attached, was published in said paper in the regular daily edition, Should be \mathcal{N}_{times} , the first publication being of the _ for dav 52 ___, 1995, and the subsequent consecutive publications of 1995 0 O D on OFFICIAL SEAL AL TIATE OF Sworn and subscribed to before me, a notary Rublic <u>n</u> Corrina Duncan and for the County of Bernalillo and State of New NOTARY PUBLIC STATE OF NEW MEXICO Mexico, this 11-17-1995، day of 1012 0 My Commission Expires PRICE Statement to come at end of month. コマレアフロ Should Scotton 28 and CLA-22-A (R-1/93) ACCOUNT NUMBER

TO by reprinted 10-10-95 PWS

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

September 22, 1995

CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-768

Mr. Gary L. Seawright AmeriCulture, Inc. 536 Paul Place Los Alamos, NM 87544

Re: Discharge Plan GW-223 Extension Fish Farm Complex Hidalgo County, New Mexico

Dear Mr. Seawright:

The New Mexico Oil Conservation Division (OCD) has received your request dated September 7, 1995 for an extension to discharge without an approved discharge plan for the Fish Farm Complex located in Section 7, Township 25 South, Range 19 West, NMPM, Hidalgo County, New Mexico.

Pursuant to Section 3-106.B. of the New Mexico Water Quality Control Commission (WQCC) regulations AmeriCulture, Inc. is hereby granted a 120 day extension to discharge at the Fish Farm Complex without an approved discharge plan until January 22, 1996. This extension is granted to allow AmeriCulture, Inc. to operate during the final stages of approval.

Please be advised this extension does not relieve AmeriCulture, Inc. of liability should their operation result in actual pollution of surface waters, ground waters or the environment.

Sincerely,

Deputy Direction William J. LeMay Director

WJL/mwa

xc: Tim Gum, OCD Artesia Office Ray Smith, OCD Artesia Office

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OFFICE OF THE SECRETARY - P. O. BOX 6429 - SANTA FE, NM 8/505-6429 - (505) 827-5950 ADMINISTRATIVE SERVICES DIVISION - P. O. BOX 6429 - SANTA FE, NM 8/505-6429 - (505) 827-5925 ENERGY CONSERVATION AND MANAGEMENT DIVISION - P. O. BOX 6429 - SANTA FE, NM 8/505-6429 - (505) 827-5900 FORESTRY AND RESOURCES CONSERVATION DIVISION - P. O. BOX 6429 - SANTA FE, NM 8/505-6429 - (505) 827-5930 MINING AND MINERALS DIVISION - P. O. BOX 6429 - SANTA FE, NM 8/505-6429 - (505) 827-5970 OIL CONSERVATION DIVISION - P. O. BOX 6429 - SANTA FE, NM 8/505-6429 - (505) 827-5970 OIL CONSERVATION DIVISION - P. O. BOX 6429 - SANTA FE, NM 8/505-6429 - (505) 827-7131 PARK AND RECREATION DIVISION - P. O. BOX 1147 - SANTA FE, NM 8/504-1147 - (505) 827-7465

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UNITED STATES

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Receipt for Certified Mail No în⇔ărănce Coverage Provided Do not use for International Mail (See Reverse)

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Affidavit of Publication DIL CONSERVE JN DIVISION

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STATE OF NEW MEXICO) SS COUNTY OF McKINLEY

Freida Hubbard _____ being duly sworn upon oath, deposes and says:

As <u>Legal Clerk</u> of The Independent, a newspaper published in and having a general circulation in McKinley County, New Mexico and in the City of Gallup, New Mexico and having a general circulation in Cibola County, New Mexico and in the City of Grants, New Mexico and having a general circulation in Apache County, Arizona and in the City of St. Johns and in the City of Window Rock, Arizona therein: that this affiant makes this affidavit based upon personal knowledge of the facts herein sworn to. That the publication, a copy of which is hereto attached was published in said newspaper during the period and time of publication and said notice was published in the newspaper proper, and not in a supplement thereof.

for <u>one t</u>	ime	, the first put	olication be	ing on the
7th	day of	September	, 19	<u>95</u> the
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That such newspaper, in which such notice or advertisement was published, is now and has been at all times material hereto, duly qualified for such purpose, and to publish legal notices and advertisements within the meaning of Chapter 12, of the statutes of the State of New Mexico, 1941 compilation.

Ireida Julibard

Sworn and subscribed to before me this <u>14th</u> day

of <u>September</u> _____, A.D., 19<u>.95</u> Diance (lianz Notary Public, My commission expires June 22, 1997

NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan application and renewal application have been submitted to the Di-rector of the Oil Conservation Division, 2000 Serut Bachers Serte Fie Num Meri

2040 South Pacheco, Santa Fe, New Mexi-co 87505, Telephone (505)827-7131: (GW-223) - Americulture, Inc., Gary L. Seawright, 536 Paul Place, Los Alamos, New Mexico 87544, has submitted a discharge plan application for their geothercharge plan application for their geother-mai nearing of a tisn tarm complex locareu in Section 7, Township 25 South, Range 19 West, NMPM, Hidalgo County, New Mexico. After heat is extracted from ap-proximately 60,000 gallons per day of geo-thermal water using a heat exchanger sys-tem, the cooled effluent stream will be dis-posed into a shallow trench and used to supply a water source for range cattle on supply a water source for range cattle on adjacent ranch property. The geothermal water has an average total dissolved solwater has an average total dissolved sol-ids content of 1,050 mg/l. The uppermost groundwater most likely to be affected by an accidental discharge is geothermal and is at a depth of appeoximately 52 feet with a total dissolved solids concentration of about 1,050 mg/l. The discharge plan ad-dresses how spills, leaks and other acci-dental discharges to the surface will be managed."

managed." (GW-032) - GIANT REFINING Company, (GW-032) - GIANT REFINING Company, Mr. Lynn Shelton, (505)722-3833, Route 3, Box 7, Gallup, New Mexico, 87301 has submitted a Renewal application for the previously approved discharge plan for their Ciniza Refinery located in Section 28 and Section 33, Township 15 North, Range 15 West, NMPM, McKinley County, near Gallup, New Mexico. The Renewal appli-cation consists of the Renewal permit dat-ed August 14, 1991 and the subsequent Modifications dated August 21, 1992, Sep-tember 21, 1993, March 15, 1995, and June 14, 1995. Groundwater most likely to be 14, 1995. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface varies in depth from 70 feet to 140 feet with an approximately total dissolved solids concentration of 950 mg/1. The discharge plan addresses how spills, leaks, and other accidental dis-charges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Di-vision at the address given above. The discharge plan applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publica-tion of this notice during which comments ing may be submitted to him and public hear-ing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the direc-tor determines that there is significant public interest. If no hearing is held, the Director will ap

If no hearing is held, the Dhetch will ap-prove or disapprove the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the hearing. GIVEN under the Seal of New Mexico Oil Conservation. Computing at Santa Fa Conservation Commission at Santa Fe, New Mexico, on this 30th day of August,

1995 STATE OF NEW MEXICO OIL CONSERVATION DIVISION /s/ WILLIAM J. LEMAY, DIRECTOR Legal #12232 Published in The Independent September 7, 1995.

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

:6

I hereby acknowledge receipt of check No. <u>7548</u> dated $9/6/2$	<u> 15</u> ,
or cash received on $\frac{9/12/95}{12/95}$ in the amount of \$ 50.00	
from Gary L. Seawright	
from Gory L. Seawright for aquaculture toolety 6w-223	
(Pealiny Name) (/ (DP Na.) Submitted by: > Date:	
Submitted to ASD by: Logen Ander Date: 9/13/95	
Received in ASD by ANGLE Alte Date: 9/13/95	
Filing Fee X New Facility Renewal	
Modification Other	
(भूग्रज्मांदेपु)	
Organization Code <u>521.07</u> Applicable FY <u>96</u>	
To be deposited in the Water Quality Management Fund.	
Full Payment or Annual Increment	

	GARY L. SEAWRIGHT 7548
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OR CONSERVE IN DIVISION OF STP S5 SEF 17 EM 8 52

GARY L. SEAWRIGHT 536 Paul Place Los Alamos, NM 87544

September 7, 1995

Mark Ashley New Mexico Oil Conservation Division 2440 S. Pacheco Santa Fe, NM 87505

6, w-223

Dear Mark:

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Enclosed is a check in the amount of \$50 that should have accompanied the Discharge Plan that I sent to you while I was on the road, two weeks ago. I apologize for the oversight.

Secondly, per our telephone conversation earlier today, I have enclosed a letter to Mr. William LeMay in which we request an extension to operate our startup aquaculture facility in the Animas Valley, NM, without a discharge plan. I understand that an extension can be granted for a sufficient period of time to allow your office to process our Discharge Plan.

Many thanks for your cooperation.

Sincerely, ky Gary L. Seawright

GARY L. SEAWRIGHT

536 Paul Place Los Alamos, NM 87544

September 7, 1995

Mr. William LeMay New Mexico Oil Conservation Division 2440 S. Pacheco Santa Fe, NM 87505

Dear Mr. LeMay:

We recently submitted to your Department a Discharge Plan for geothermal disposal at the facilities of the Americulture, Inc., located in the Animas Valley, Hildago County, NM. Unfortunately we did not submit the plan early enough to allow sufficient processing time by your office before we needed to begin operations.

Accordingly, we would like to request herewith an extension to operate our new facility without a discharge plan until our Plan has been processed by your office. We expect operations to begin on or about September 28, 1995.

Thank you in advance for your kind response to this request.

incerely

Gary L. Seawright

cc Damon E. Seawright Roy Cunniff Santa Fe, New Mexico 87505



August 31, 1995

ALBUQUERQUE JOURNAL P. O. Drawer J-T Albuquerque, New Mexico 87103

RE: NOTICE OF PUBLICATION

ATTN: ADVERTISING MANAGER

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

- 1. Publisher's affidavit in duplicate.
- 2. Statement of cost (also in duplicate.)
- 2. CERTIFIED invoices for prompt payment.

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than September 7 . 1995.

Sincerely,

y EJ Martinez

Administrative Secretary

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Attachment

VILLAGRA BUILDING - 408 Galistee Foreatry and Resources Conservation Division P.O. Box 1948 87504-1945 827-5830 Park and Recreation Division P.O. Box 1147 87504-1147 -827-7455

2040 South Pacheco

Office of the Secretary 827-5950 Administrative Services

827-5925 Energy Conservation & Management 827-5900

> Mining and Minerals 827-5970

Oil Conservation 827-7131

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8 1975 State of New Mexico ENERGY MINERALS and NATURAL RESOURCES DEPARTMENT Santa Fe, New Mexico 87505



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August 31, 1995

GALLUP INDEPENDENT P. O. Box 1210 Gallup, New Mexico 87301

RE: NOTICE OF PUBLICATION

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ATTN: ADVERTISING MANAGER

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

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We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than <u>September 7</u>, 1995.

Sincerely,

Ily Martins Sally E. Martinez

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Administrative Secretary

Attachment

VILLAGRA BUILDING - 408 Galisteo Forestry and Resources Conservation Division P.O. Box 1948 87504-1948 827-5830 Park and Recreation Division P.O. Box 1147 87504-1147 827-7485 2040 South Pacheco

Office of the Secretary 827-5950 Administrative Services

827-5925 Energy Conservation & Management 827-5900

Mining and Minerals 827-5970 Oil Conservation 827-7131

Z 765 963 511 Receipt for Certified Mail No Insurance Coverage Provided <u>. 1M</u> Do not use for International Mail (See Reverse) UNITED STATES Sent Gallup Independent Stree an Olo Box 1210 Gallup Independent P.O., State and Jip Color 87301 Postage \$ Certified Fee Special Delivery Fee Restricted Delivery Fee PS Form **3800,** March 1993 Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to Whom, Date, and Addressee's Address TOTAL Postage & Fees \$ Postmark or Date

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NEW MEXICO ENERGY MINERALS AND NATURAL BESOURCES DEPARTMENT

August 31, 1995

LORDSBURG LIBERAL 211 Shakespere Lordsburg, New Mexico 88045 **RE: NOTICE OF PUBLICATION**

ATTN: ADVERTISING MANAGER

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

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- 2. CERTIFIED invoices for prompt payment.

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than September 7, 95.

Sincerely,

Administrative Secretary

Attachment

 OFFICE OF THE SECRETARY
 P. O. BOX 6429
 SANTA FE, NM 87505-6429
 - (505) 827-5950

 ADMINISTRATIVE SERVICES DIVISION
 - P. O. BOX 6429
 - SANTA FE, NM 87505-6429
 - (505) 827-5955

 ENERCY CONSERVATION AND MANAGEMENT DIVISION
 - P. O. BOX 6429
 - SANTA FE, NM 87505-6429
 - (505) 827-5955

 FORESTRY AND RESOURCES CONSERVATION DIVISION
 - P. O. BOX 6429
 - SANTA FE, NM 87505-6429
 - (505) 827-5930

 FORESTRY AND RESOURCES CONSERVATION DIVISION
 - P. O. BOX 1948
 - SANTA FE, NM 87505-6429
 - (505) 827-5830

 MINING AND MINERALS DIVISION
 - P. O. BOX 6429
 - SANTA FE, NM 87505-6429
 - (505) 827-7830

 OLL CONSERVATION DIVISION
 - P. O. BOX 6429
 - SANTA FE, NM 87505-6429
 - (505) 827-7870

 OLL CONSERVATION DIVISION
 - P. O. BOX 6429
 - SANTA FE, NM 87505-6429
 - (505) 827-7313

 PARK AND RECREATION DIVISION
 - P. O. BOX 147
 - SANTA FE, NM 87505-6429
 - (505) 827-7131

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NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan application and renewal application have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-223) - Americulture, Inc., Gary L. Seawright, 536 Paul Place, Los Alamos, New Mexico 87544, has submitted a discharge plan application for their geothermal heating of a fish farm complex located in Section 7, Township 25 South, Range 19 West, NMPM, Hidalgo County, New Mexico. After heat is extracted from approximately 60,000 gallons per day of geothermal water using a heat exchanger system, the cooled effluent stream will be disposed into a shallow trench and used to supply a water source for range cattle on adjacent ranch property. The geothermal water has an average total dissolved solids content of 1,050 mg/l. The uppermost groundwater most likely to be affected by any accidental discharge is geothermal and is at a depth of approximately 52 feet with a total dissolved solids concentration of about 1,050 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-032) - GIANT REFINING Company, Mr. Lynn Shelton, (505)-722-3833, Route 3, Box 7, Gallup, New Mexico, 87301 has submitted a Renewal application for the previously approved discharge plan for their Ciniza Refinery located in Section 28 and Section 33, Township 15 North, Range 15 West, NMPM, Mckinley County, near Gallup, New Mexico. The Renewal application consists of the Renewal permit dated August 14, 1991 and the subsequent Modifications dated August 21, 1992, September 21, 1993, March 15, 1995, and June 14, 1995. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface varies in depth from 70 feet to 140 feet with an approximate total dissolved solids concentration of 950 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan applications may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall

set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the plan based on the information available. If a public hearing is held, the Director will approve the plan based on the information in the plan and information presented at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 30th day of August, 1995.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

SEAL

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 30th day of August, 1995.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

SEAL

WILLIAM J. LEMAY, Director

Facsimile

То:	New Mexico Oil Conservation Division Attn.: Mark Ashley 2440 S. Pacheco Santa Fe, NM 87505 fax: 505-827-8177
From	Domon Soonwicht

From: Damon Seawright Vice President, AmeriCulture, Inc. phone/fax: 206-685-3294

Pages: 3 of 3 (including cover)

Message:

Dear Mark: Enclosed herewith are 1) an executed copy of the signature page of the Application for a Surface Disposal Permit and 2) a cover letter to our recently submitted proposal, written by Gary L. Seawright (President, AmeriCulture, Inc.). The "Discharge Plan for Geothermal Disposal" and application for AmeriCulture, Inc. were sent recently and should arrive in a day or two; the contents of the enclosed cover letter should help identify the application upon its arrival. Because Gary L. Seawright and I are presently in different cities, he sent the completed application without my signature. The enclosed signature page has both our signatures. Please read the note at the bottom of the second page, written to you by Gary L. Seawright today, August 24, 1995. If you have any questions, please contact me at (206)685-3294.

Thank-you

DISCHARGE PLAN FOR GEOTHERMAL DISCHARGE

1. GENERAL INFORMATION

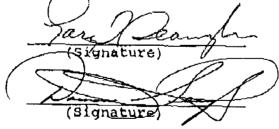
A. Name, Address, and Telephone Number for Discharger or Legally Responsible Party:

Gary L. Seawright, President AmeriCulture, Inc. 536 Paul Place Los Alamos, NM 87544 Telephone: (505) 672-3739

Damon E. Seawright, Vice-President AmeriCulture Inc. HC P.O. Box 265B Animas, NM 88020 Telephone: (505) 548-2328

- B. Location of Discharge: Section 7, Township 25 South, Range 19 West
- C. Type of Operation: Geothermal heating of fish farm complex. The fish farm consists of a series of tanks housing fish of varying maturity, all sheltered inside a greenhouse type structure. The complex will be heated using geothermal water piped through a heat exchanger system.
- D. Affirmation:

"I hereby certify that I am familiar with the information contained in and submitted with this application and that such information is true, accurate, and complete to bast of my knowledge and belief."



(Date)

8/24/95 (Date)

1

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206 685 3294

AMERICULTURE, INC. Los Alamos, NH 87544

August 14, 1995

New Mexico Oil Conservation Division ATTN: Mark Ashley 2440 S. Pacheco Santa Fe, New Mexico 87505

Dear Mr. Ashley:

Enclosed please find a properly completed Discharge Plan for geothermal disposal at the facilities of Americulture, Inc., located in the Animas Valley, Hidalgo County, New Mexico.

536 Paul Place

This Discharge Plan is submitted as an application for a Discharge Permit. Also enclosed is our check for \$50.00 to process the application.

If you have questions concerning this Discharge Plan, please contact me at the address and telephone number shown in the Plan. For questions concerning geothermal issues, please feel free to contact our consultant, Roy A. Cunniff, telephone (505) 523-7908.

Sincerely, Gary L. Seawright

President

2 Encl:

- 1. Discharge Plan
- 2. Check for \$50.00 for processing the Disposal Permit

8/24/59

ATTN: MARK ASHLEY -

Mank -

I Sant this cover letter and an "application for a surface disposed Perimet" yesteriday, but we wailed to methode Signatures. An executed Copy of the Signature page is transmitted by Telertex herein I Left a message on your answeing machine to



AMERICULTURE, INC. 536 Paul Place Los Alamos, NM 87544

August 14, 1995

New Mexico Oil Conservation Division ATTN: Mark Ashley 2440 S. Pacheco Santa Fe, New Mexico 87505

Dear Mr. Ashley:

Enclosed please find a properly completed Discharge Plan for geothermal disposal at the facilities of AmeriCulture, Inc., located in the Animas Valley, Hidalgo County, New Mexico.

This Discharge Plan is submitted as an application for a Discharge Permit. Also enclosed is our check for \$50.00 to process the application.

If you have questions concerning this Discharge Plan, please contact me at the address and telephone number shown in the Plan. For questions concerning geothermal issues, please feel free to contact our consultant, Roy A. Cunniff, telephone (505) 523-7908.

Sincerely,

Gary L. Seawright President

2 Encl:

- 1. Discharge Plan
- 2. Check for \$50.00 for processing the Disposal Permit

RECEIVED AUG 28 1995 Environmental Bureau Oil Conservation Division

DISCHARGE PLAN FOR GEOTHERMAL DISCHARGE

\checkmark I. GENERAL INFORMATION

A. Name, Address, and Telephone Number for Discharger or Legally Responsible Party:

Gary L. Seawright, President AmeriCulture, Inc. 536 Paul Place Los Alamos, NM 87544 Telephone: (505) 672-3739

Damon E. Seawright, Vice-President AmeriCulture Inc. HC P.O. Box 265B Animas, NM 88020 Telephone: (505) 548-2328

- B. Location of Discharge: Section 7, Township 25 South, Range 19 West
- C. Type of Operation: Geothermal heating of fish farm complex. The fish farm consists of a series of tanks housing fish of varying maturity, all sheltered inside a greenhouse type structure. The complex will be heated using geothermal water piped through a heat exchanger system.
 - D. Affirmation:
 - "I hereby certify that I am familiar with the information contained in and submitted with this application and that such information is true, accurate, and complete to best of my knowledge and belief."

(Signature)

(Date)

(Signature)

(Date)

/ II. Plant Processes

A. Describe storage and uses of geothermal waters and any surface disposal impoundments.

Space heating operations initally will use an existing geothermal well completed by the Beall Company in 1984 and used for more than 10 years to heat a greenhouse located on the site. During its period of use, the geothermal fluid production of an estimated quantity of up to 108,000 gpd was discharged onto the land surface near the greenhouse.

The geothermal water generally is good quality, with only fluoride concentration higher than allowable drinking water standards. The water contains a total dissolved solids content of approximately 1,050 milligrams per liter, and the fluoride concentration is about 12.5 - 14.5 mg per liter. This geothermal water has the same dissolved minerals content as the geothermal water presently being discharged onto the land surface by Rosette. Inc. under an existing disposal permit. The geothermal water has been analysed several times, and a copy of laboratory analysis of the water is attached at Appendix A.

For the new application to heat the fish farm complex, the geothermal well will be operated as necessary to provide heat for the fish farm complex. After heat is extracted from the geothermal water using a heat exhanger system, the cooled effluent stream will be disposed into a shallow trench and used to supply a water source for range cattle on the adjacent McCants' ranch property. To prevent summer time storm flow run-off from the nearby Pyramid Mountains located about three miles to the east, a diversion berm will be built. This berm would direct surface flow of storm waters away from the fish farm complex.

B. Estimated quantities used in gallons per day (gpd):

At peak heating load, it is anticipated that up to 150,000 gpd will be discharged. Average discharge rate during the heating season would be about 60,000 gpd.

C. Any additives or commingling:

Depending on the results from future research, it is possible that the geothermal water would serve as the growth medium for the fish. If this concept becomes viable, the geothermal fluid would be circulated throughout the fish farm complex, and would be discharged to an evapotranspira tion pond as a normal part of the cycling operations. During operation of the fish farm complex, an effluent stream of about 20,000 gpd of nitrate-enriched fluid would be discharged from the fish farm complex. This stream would be sent to an evapotranspiration bed to be solar dried. If the geothermal water proves to be suitable for direct use, the geothermal water would become nitrate-enriched and the commingled fluid would form the total discharge.

III. Site Characteristics

A. Provide the name, description, and location of any ground water discharge sites within one mile of the outside perimeter of the facility.

The proposed fish farm complex would be built on a 15acre tract of land surface above the confirmed geothermal aquifer, and would be located less than 350 feet from a geothermal well complex located on New Mexico Trust land operated by Rosette, Inc. as a geothermal source for heating 1.3 million square feet of greenhouse complexes. The geothermal production is used to heat the greenhouses, and the cooled geothermal effluent is discharged to a drainage channel located in Section 7 about one-quarter to one-half mile south of the fish farm complex.

The existing geothermal wells drilled within the past 15 years by Rosette, Inc. cover an area comprising a zone about one-half mile wide, covering most of the eastern portion of Section 7 and extending into Section 6 on the north where Rosette, Inc. has a geothermal well field on New Mexico Trust Land. About 16 different geothermal wells have been completed, and the geothermal aquifer is now relatively well defined.

Fresh water irrigation wells are located about one and one-half miles to the west of the existing geothermal well field and disposal facilites. These fresh water wells, owned and used by Rosette, are used in their greenhouses. Tom McCants also owns irrigation wells to the west. AmeriCulture, Inc. also owns, and will use in its operations a fresh water well, State Engineer No. A-45-S-3, located in Section 12, Township 25 South, Range 20 West, about 1.5 miles west of the fish farm complex.

Water quality analyses for geothermal and irrigation wells are attached at Appendix B.

The following figure depicts the general surface land owner ship and well locations. A second figure depicts probable extent of the geothermal aquifer and direction of subsurface flow.

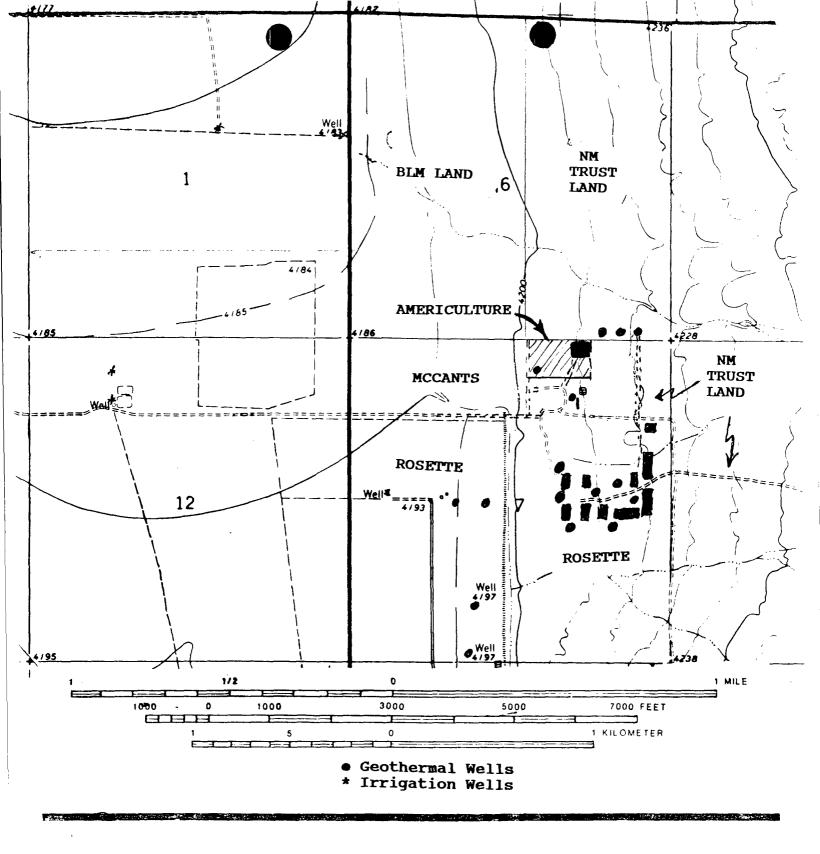


FIGURE 1. LOCATION MAP IN SECTION 7, TS 25S, R 19W FOR AMERICULTURE, INC., MCCANTS, ROSETTE, INC.

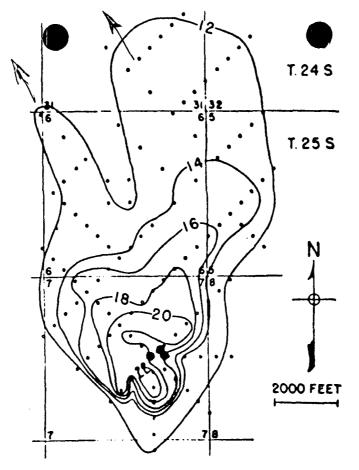


FIGURE 2. TEMPERATURE AT A DEPTH OF ONE METER AROUND HOT WELLS (in Kintzinger, 1956)

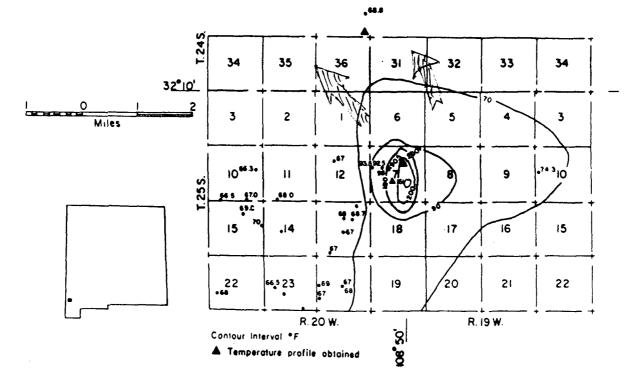


FIGURE 3. MAP OF THE THERMAL ANOMALY IN THE ANIMAS VALLEY, SHOWING TEMPERATURES OF DISCHARGING WATER AND LOCATIONS (in Summers, 1976)

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B. If known, provide the flow direction of the ground water most likely to be affected by the discharge. Include the source of the information and how it was determined.

Ground water flows from the subsurface geothermal aquifer to the north north-west. This geothermal source has been studied extensively by numerous researchers, including:

> Schwennesen, A.J., 1918, Ground Water in the Animas, Playas, Hachita, and San Luis Basins, USGS Water-Supply Paper 422.

> Kintzinger, P.R., 1956, Geothermal Survey of Hot Ground Near Lordsburg, New Mexico: Science v. 124,

> Reeder, H.O., 1956, Ground Water in the Animas Valley, Hidalgo County, NM State Engineer's Office Technical Report 11.

> Summers, W.H., 1976, Catalog of Thermal Waters in New Mexico, New Mexico Bureau of Mines and Mineral Resources Open-file Report 75-613.

> O'Brien, K.M., and Stone, W.J., 1983, A Twodimensional Hydrologic Model of the Animas Valley, Hidalgo County, New Mexico, New Mexico Bureau of Mines and Minerals Resources Open-file Report 133.

C. Provide depth to water of geothermal water, and if possible, any fresh water wells that could be affected by any discharge.

From records of well completions on file with the New Mexico Oil Conservation Division, depth to water in the geothermal aquifer ranges from about 52 feet to 72 feet. For example, Burgett 1993 State No.1, drilled within Section 6, encountered depth of geothermal water at 52.4 feet in the completed well. The original geothermal well considered for use in the present application for a Disposal Permit encountered geothermal water at a depth of 65 feet. Researchers cited above, including Reeder (1957) and Brien and Stone (1983) reported depth of about 60 feet to geothermal water in the geothermal wells completed prior to 1983.

Fresh water wells located to the west of the geothermal aquifer generally depict a depth to water of about 85 feet, or greater, depending on the ground surface elevation of the well. It is unlikely that any fresh water wells could be affected by any geothermal discharge. From water quality data presented in the references previously cited, and from the water quality analyses in Appendices A and B, all of the irrigation and domestic water wells located within a three-mile radius to the west and northwest contain elevated fluoride content.

D. Depth to and lithologic description of rock at base of alluvium. Provide drillers logs and geologic information and maps as available.

Geothermal wells drilled prior to 1983 are reported to have encountered fractured rhyolite at a depth of approximately 60 to 65 feet. This fractured rhyolite rock, red in color, is presumed to be the geothermal aquifer.

The red rhyolite rock serves as a useful geologic marker. From well records available at the New Mexico Oil Conservation Division, the geothermal well proposed for use in the present application was completed to a total depth in alluvium to depth of 205 feet. Drilling of this well did not identify a specific geologic marker.

From well completion records available in the New Mexico Oil Conservation Division, geothermal wells drilled in 1993 by Rosette, Inc. in Section 6 (about 350 feet north and east of the new fish farm complex) encountered a fractured rhyolite, red in color, at a depth of approximately 325 feet in Rosette State No. 1 and Rosette State No. 2, and at about 323 feet in Rosette State No. 4. This new information suggests that the rhyolitic rock (and the geothermal aquifer) is downthrown to the north and west. Further, this new, 1993, drilling information suggests the possibility that the natural geothermal flow to the north and north west is controlled by this ryholitic rock. The subsur face geothermal flow would move to the north and north west to gradually cool and mix with cooler valley waters.

This is the hydologic model suggested by O'Brien and Stone (1983).

E. Describe flooding potential of the discharge site.

As mentioned in section II A, above, a potential exists for surface runoff from summer storms in the Pyramid Mountains. To protect the fish farm complex, including the discharge site, an earthen berm will be erected on the east side of the fish complex to divert potential surface runoff to the north of the complex. This earthen berm would be similar in size to the earthen berm, constructed sometime before 1965, which protects the western part of Section 7 from mountain front surface runoff.

F. Any additional information that may be necessary to demonstrate that approval of the discharge plan will not result in concentrations in excess of the standards of WQCC Regulations, Section 3-103, or the presence of any toxic pollutant at any place of withdrawal of water for present or reasonably foreseeable future use.

Information contained in this application clearly shows that the geothermal aquifer is very large, and fish farm operations conducted by Americulture, Inc. will be conducted on land surface above the geothermal aquifer. Existing subsurface water in vicinity is all geothermal in origin, is shallow, and the geothermal fluid is of relatively good qualily.

Planned disposal operations are similar to surface disposal of geothermal water conducted by Beall Company for more than ten years, and are similar, but involve substantially smaller quantities, than the geothermal disposal operations presently being conducted by Rosette, Inc. under an approved discharge plan. Disposal operations conducted by Americulture, Inc. do not involve any toxic pollutants, and are unlikely to cause any contamination of any potable ground water sources.

APPENDICES:

- A. Copy of laboratory analyses for water quality from Beall geothermal well (now owned by AmeriCulture, Inc.)
- B. Copies of water quality analyses completed by the NM OCD and other agencies for selected geothermal and irrigation wells in the Animas Valley.

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Berylium	<u> 40.1</u>	
Boron	20.1	
Cadmium	40.	
Calcium	59.	
Chromium	<0.1	
Cobalt	40.(·
Copper	20.1	·
Iron	40.1	
Lead	<0.1	
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Nickel	40.1	
Silicon	16.	·
Silver	<0.	· · · · · · · · · · · · · · · · · · ·
Strontium	0.5	
Tin	40.1	
Vanadium	40.1	
Zinc	0.8	
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ND NM IAL Sta PORT Sar	OIL CONS ate Land nta Fe, N	M 87501	VISION , PO Box 208	8			
Απη:	David Boy	er					
				-	Station/ weil code		
	ITIONS				Owner		
,	Pump Tap	Water level		Discharge 1400	300	Sample type	
H (00400) フ・ビ	ſ	Conductivity (Unco	orrected) 600 μπho	Water Temp. (00010)	19 °C	Conductivity at 25	i°C (00094) µmi
eid commenta				1	<u> 7</u>	1	
T.	1. 250	-					
No. of samples submitted	/ 🗆 NF	(Non-littered)	Filtered in	field with TA: -2-	mi H₂SO 4/	Ladded HN	o ₃
No. of samples submitted NA: No acid a IALYTICAL RES	/ INF	Whole sample (Non-filtered)	Filtered in	mbrane filter 🗠 A: 🛥	ml H ₂ SO ₄ /	Ladded Hル Units	
No. of samples submitted NA: No acid a NALYTICAL RES NF: NA F. A Conductivity (Corr	/ INF	Whole sample (Non-filtered))ther-specify: SAMPLES	☑ F: ^{Filtered} in 0.45 μme	t F. NA	mi H ₂ SQ ₄ /	Units.	C3 Date snalyze
No. of samples submitted NA: No acid a IALYTICAL RES	/ INF	Whole sample (Non-filtered))ther-specify: SAMPLES	⊠ F: ^{Filtered} in 0.45 µme	mbrane filter (A:		Units. mg/l	
No. of samples submitted NA: No acid a ALYTICAL RES NF: NA F. A Conductivity (Corm 25°C (00095) Total non-filterable	/ INF	Whole sample (Non-filtered))ther-specify: SAMPLES	☑ F: ^{Filtered} in 0.45 μme	d F NA	mi H ₂ SO ₄ /	Units.	<u> </u>
No. of samples submitted NA: No acid a ALYTICAL RES NF. NA F. A Conductivity (Corn 25°C (00095) Total non-filterable residue (suspende (00530)	/ INF	Whole sample (Non-filtered))ther-specify: SAMPLES	☑ F: ^{Filtered} in 0.45 μme	d F NA	· · · · · · · · · · · · · · · · · · ·	Units mg/l mg/l mg/l mg/l	<u> </u>
No. of samples submitted NA: No acid a ALYTICAL RES NF. NA F. A Conductivity (Com 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P	/ INF	Whole sample (Non-filtered))ther-specify: SAMPLES	E F: Filtered in 0.45 μmer	d F NA	· · · · · · · · · · · · · · · · · · ·	Units mg/l mg/l mg/l	
No. of samples submitted NA: No acid a IALYTICAL RES NG. NA F. A Conductivity (Com 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Se	/ INF	Whole sample (Non-filtered))ther-specify: SAMPLES	E F: Filtered in 0.45 μmer	d F- NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chioride (00940) Sulfate (00945) Total filterable residue		Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l	
Io. of samples ubmitted INA: No acid a ALYTICAL RES INF. NA F. A Conductivity (Corr 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Se Other: Se	/ INF	Whole sample (Non-filtered) http://www.specify: SAMPLES	E F: Filtered in 0.45 μmer Units Oate analyzed μmho mg/l	d F NA		Units mg/l mg/l mg/l mg/l mg/l	
No. of samples Submitted NA: No acid a ALYTICAL RES NF. NA F, A Conductivity (Correct 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA F Other: Ce Other: Ce Other: Ce	/ INF	Whole sample (Non-filtered) http://www.specify: SAMPLES	E F: Filtered in 0.45 μmer Units Oate analyzed μmho mg/l	d F. NA Calcium (00915) Magnesium (00925) Socium (00930) Potassium (00930) Chloride (00940) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300)		Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l	
No. of samples Submitted NA: No acid a IALYTICAL RES NF. NA F. A Conductivity (Com 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Se Other: Se	/ INF	Whole sample (Non-filtered) Other-specify: SAMPLES	E F: Filtered in 0.45 μmer	d F NA		Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Date analyze
No. of samples Submitted NA: No acid a IALYTICAL RES NF. NA F. A Conductivity (Correct 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Ce Other: Ce Ther: Co Ther: Co Ther: Co Nitrate-N + , Nitrate	/ INF	Whole sample (Non-filtered) http://www.specify: SAMPLES	E F: Filtered in 0.45 μmer Units Oate analyzed μmho mg/l	d F NA		Units. mg/I mg/I mg/I mg/I mg/I mg/I	Date analyze
No. of samples submitted NA: No acid a NA: No acid a No acid a No acid a No acid a NA: No acid a No acid a NA: No acid a NA: No acid a No acid a No acid a No acid a No acid a Na: No acid a No acid (00530) Nitrate-N +, Nitrate total (00530)	/ INF	Whole sample (Non-filtered) Other-specify: SAMPLES	Image: Second system F: Filtered in 0.45 μmer Units Date analyzed μmho μmho mg/l mg/l mg/l	d F NA		Units mg/l mg/l mg/l mg/l mg/l mg/l	Date analyze
No. of samples submitted NA: No acid a IALYTICAL RES NF. NA F, A Conductivity (Com 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Ce Other: Ce Nitrate-N +, Nitrate total (00630) Ammonia-N total ((Total Kjeldahl-N () Chemical oxygen	/ INF	Whole sample (Non-filtered) Other-specify: SAMPLES	Image: Second system F: Filtered in 0.45 μmer Units Date analyzed μmho μmho mg/l mg/l mg/l mg/l mg/l	d F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO. Initrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolve (00608)		Units. mg/I mg/I mg/I mg/I mg/I mg/I	Date analyze
No. of samples submitted NA: No acid a NA: No acid a Acid Acid Acid Alexan Conductivity (Com 25°C (00095) Total non-filterable residue (suspende (00530) Cther: / CA P Other: Ce Other: Ce Other: Ce Other: Ce Other: Ce Cher: Co Chemical oxygen demand (00340)	/ □ NF idded □ C SULTS from HAJO3 ected) sc.AAJ N 00610)	Whole sample (Non-filtered) Other-specify: SAMPLES	Image: Second system F: Filtered in 0.45 μmer Units Date analyzed μmho μmho mg/l mg/l mg/l	d F NA		Units. mg/l mg/l mg/l mg/l mg/l mg/l	Date analyze
No. of samples submitted NA: No acid a NA: No acid a Nitrate-N +: No Cher: Ca Nitrate-N +: Nitrate total (00630) Ammonia-N total (0 Total Kjeldaht-N () Chemical oxygen demand (00340) Total organic carbo ()	/ □ NF idded □ C SULTS from HAJO3 ected) sc.AAJ N 00610)	Whole sample (Non-filtered) Other-specify: SAMPLES	Image: Second system F: Filtered in 0.45 μmer Units Date analyzed μmho μmho mg/l mg/l mg/l mg/l mg/l	d F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: F, A-H ₂ SO. Initrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolve (00608)		Units. mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	Date analyze
No. of samples submitted NA: No acid a NA: No acid a NALYTICAL RES NF. NA F. A Conductivity (Com 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Je Other: Je Other: Je Other: Je Cher: Je	/ □ NF idded □ C SULTS from HAJO3 ected) sc.AAJ N 00610)	Whole sample (Non-filtered) Other-specify: SAMPLES	Image: Second system F: Filtered in 0.45 μmer Units Date analyzed μmho μmho mg/l mg/l mg/l mg/l mg/l mg/l mg/l	d F NA		Units mg/l mg/l	Date analyze
No. of samples submitted NA: No acid a NA: No acid a NALYTICAL RES NE. NA F. A Conductivity (Corn 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Ce Other: Ce Other: Ce Total (00630) Ammonia-N total ((Total Kjeldant-N () Chemical oxygen demand (00340) Total organic carbo ()	/ □ NF idded □ C SULTS from HAJO3 ected) sc.AAJ N 00610)	Whole sample (Non-filtered) Other-specify: SAMPLES	Image: Second system F: Filtered in 0.45 μmer Units Date analyzed μmho μmho mg/l mg/l mg/l mg/l mg/l mg/l mg/l	d F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H2 SO4 Nitrate-N + Nitrate-N dissolved (00631) Armmonia-N dissolve (00608) Total Kjełdahl-N () Other:		Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l Review	Date analyzed
No. of samples submitted NA: No acid a NA: No acid a NALYTICAL RES NF. NA F. A Conductivity (Com 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Je Other: Je Other: Je Other: Je Cher: Je	/ □ NF idded □ C SULTS from HAJO3 ected) sc.AAJ N 00610)	Whole sample (Non-filtered) Other-specify: SAMPLES	Image: Second system F: Filtered in 0.45 μmer Units Date analyzed μmho μmho mg/l mg/l mg/l mg/l mg/l mg/l mg/l	d F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H2 SO4 Nitrate-N + Nitrate-N dissolved (00631) Armmonia-N dissolve (00608) Total Kjełdahl-N () Other:	d Date R	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l Review	Date analyze
No. of samples submitted NA: No acid a IALYTICAL RES N. NA F. A Conductivity (Com 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Se Other: Se Other: Se Other: Ca F. A-H ₂ SO ₄ Nitrate-N +, Nitrate total (00630) Ammonia-N total ((Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbo () Other: Other: Other:	/ □ NF idded □ C SULTS from HAJO3 ected) sc.AAJ N 00610)	Whole sample (Non-filtered) Other-specify: SAMPLES	Image: Second system F: Filtered in 0.45 μmer Units Date analyzed μmho μmho mg/l mg/l mg/l mg/l mg/l mg/l mg/l	d F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H2 SO4 Nitrate-N + Nitrate-N dissolved (00631) Armmonia-N dissolve (00608) Total Kjełdahl-N () Other:	d Date R	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l Review	Date analyze
No. of samples submitted NA: No acid a IALYTICAL RES N. NA F. A Conductivity (Com 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CA P Other: Se Other: Se Other: Se Other: Ca F. A-H ₂ SO ₄ Nitrate-N +, Nitrate total (00630) Ammonia-N total ((Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbo () Other: Other: Other:	/ □ NF idded □ C SULTS from HAJO3 ected) sc.AAJ N 00610)	Whole sample (Non-filtered) Other-specify: SAMPLES	Image: Second system F: Filtered in 0.45 μmer Units Date analyzed μmho μmho mg/l mg/l mg/l mg/l mg/l mg/l mg/l	d F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F, A-H2 SO4 Nitrate-N + Nitrate-N dissolved (00631) Armmonia-N dissolve (00608) Total Kjełdahl-N () Other:	d Date R	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l Review	Date analyze

Lab Number: 280Date Submitted: 2/10/86By: Bailey Sample Ede: <u>Burgett Irigation</u> We Date Analyzed: <u>2/17/86</u> Reviewed By: <u>Cakhy</u> Date Reported: <u>4/18/86</u>

Element	ICAP VALUE(MG/L)	AA VALUE (MG/L)
Aluminum	<0.1	
Barium	<u>~0.1</u>	. <u></u>
Berylium	<0.1	
Boron	20.1	
Cadmium	20.	
Calcium	72.	
Chromium	<0.1	
Cobalt		
Copper	<0.	
Iron	<0.1	
Lead	<0.1	
Magnesium	6.5	
Manganese	<0.05	·
Molybdenum		
Nickel	<u> </u>	
Silicon	15	
Silver	40.1	
Strontium	0.4	
Tin	20.1	
Vanadium		
Zinc	40.1	
Arsenic .		<u><0.005</u> <0.005
Selenium		<0.005
Mercury		

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ollection DATE / 28/86		ATION		SATION	WELL	
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SAILEY /	IDHNSON -	000		7		
	ENVIRONMEN ⁻					
END	NM OIL CONS	SERVATION DIVISION	_			
SOUTH		Office Bldg, PO Box 20	088 [.]			
•	Santa Fe, I					*****
Attn:	David_Boy	<u>/er</u>				
				Station/ well code		
AMPLING CO	NDITIONS			Owner		
Bailed	27 Pump	Water level	Discharge		Sample type	
Dipped oH (00400)	🗆 Tap	Conductivity (Uncorrected)	Water Temp. (00010)	spm	Conductivity at 25	°C (00094)
	<u>).0</u>	600 μmh		19 °C	Conductivity at 25	μπho
Field comments	T.A. 250	,				
	<u> </u>	····				
	TREATMEN	f — Check proper boxes				······································
No. of samples submitted	/ 🙀 NF		l in field with 🛛 🗆 A: 2 membrane filter	ml H ₂ SO ₄ /I	added	
X NA: No aci	id added 🗆 C					
NALYTICAL F	ESULTS from	SAMPLES Units Date analy	zed F, NA		Units	Date analyzed
Conductivity (C	Corrected)		🔀 Calcium (00915)	64.0	/mg/l_	2-10
25°C (00095)			🖾 Magnesium (00925)	17.5		
				57	mg/l _	4
Total non-filtera			G Sodium (00930) B Potassium (00935)	<u> </u>	<u>.3</u> mg/l _ mg/l _	4 1/
Total non-filtera residue (suspe (00530)			 Sodium (00930) Potassium (00935) Bicarbonate (00440) 	/.5 /4L	<u>.3</u> mg/l _ <u>6</u> mg/l _ mg/l _	2/18
residue (suspe (00530) Other:		mg/l	G Sodium (00930) G Potassium (00935)		<u>.ð </u>	and the second se
residue (suspe (00530) Other: Other:		mg/l	Image: Solition (00930) Image: Solition (00935) Image: Solition (00935)			2/18 2/20 2/18
residue (suspe (00530) Other: Other: Other:		mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945)		<u>.3</u> mg/l . <u>6</u> mg/l . <u>7</u> mg/l . <u>53 . 6</u> mg/l . <u>53 . 6</u> mg/l . <u>53 . 6</u> mg/l . <u>50 mg/l .</u>	2/18 2/20 2/18 3/13, 2/18
residue (suspe (00530) Other: Other: Other: NF, A-H ₂ SO ₄	nded)		Sodium (00930) Potassium (00935) Sicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:		.3mg/l . 6mg/l . 6_3.6mg/l . 6_3.6mg/l . 6_3mg/l .	2/18 2/20 2/18 3/13,
residue (suspe (00530) Other: Other: Other:	nded)	mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Chter: Cos F, A-H ₂ SO ₄		<u>.3</u> mg/l . <u>6</u> mg/l . <u>7</u> mg/l . <u>53 . 6</u> mg/l . <u>53 . 6</u> mg/l . <u>53 . 6</u> mg/l . <u>50 mg/l .</u>	2/18 2/20 2/18 3/13, 2/18
residue (suspe (00530) Other: Other: Other: NF, A-H ₂ SO ₄ Nitrate-N + , Ni total (00630) Ammonia-N tot	nded)		Sodium (00930) Potassium (00935) Sicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:		<u>.3</u> mg/l . <u>6</u> mg/l . <u>7</u> mg/l . <u>53 . 6</u> mg/l . <u>53 . 6</u> mg/l . <u>53 . 6</u> mg/l . <u>50 mg/l .</u>	2/18 2/20 2/18 3/13, 2/18
residue (suspe (00530) Other: Other: Other: NF, A-H ₂ SO ₄ Nitrate-N + , Ni total (00630)	nded)	mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlore: Cost F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-H dissolved (00631) Ammonia-N dissolve		.3 mg/l .6 mg/l .6 mg/l .5 .6 .3 mg/l .5 mg/l .5 mg/l .6 mg/l .7 mg/l .7 mg/l .7 mg/l .7 mg/l .7 mg/l .7 mg/l	2/18 2/20 2/18 3/13, 2/18
residue (suspe (00530) Other: Other: Other: NF, A-H ₂ SO ₄ Nitrate-N + , Ni total (00630) Ammonia-N tot Total Kjeldahl-N ()	nded)	mg/l mg/l mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlore: Cost F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-H dissolved (00631)		<u>.3</u> mg/l <u>6</u> mg/l <u>53,6</u> mg/l <u>53,6</u> mg/l <u>53</u> mg/l <u>80</u> mg/l <u>2,99</u>	2/18 2/20 2/18 3/13, 2/18
residue (suspe (00530) Other: Other: Other: NF, A-H ₂ SO ₄ Nitrate-N + , Ni total (00630) Ammonia-N tot Total Kjeldahl-N () Chemical oxyg demand (00340)	nded)	mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlor: Cos F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N ()		.3 mg/l .6 mg/l .6 mg/l .5 .6 .3 mg/l .5 mg/l .5 mg/l .6 mg/l .7 mg/l .7 mg/l .7 mg/l .7 mg/l .7 mg/l .7 mg/l	2/18 2/20 2/18 3/13, 2/18
residue (suspe (00530) Other: Other: Other: Nitrate-N +, Ni total (00630) Armonia-N tot Total Kjeldahl-N () Chemical oxyg demand (00340	nded)	mg/l mg/l mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlor: F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-H dissolved (00631) Ammonia-N dissolve (00608)		.3 mg/l 6 mg/l 6 3 . 6 mg/l 5 3 . 6 mg/l 5 3 . 6 mg/l 5 3 mg/l 5 3 mg/l 5 3 mg/l 6 mg/l 6 mg/l mg/l mg/l	2/18 2/20 2/18 3/13, 2/18 2/27
residue (suspe (00530) Other: Other: Other: NF, A-H ₂ SO ₄ Nitrate-N + , Ni total (00630) Ammonia-N tot Total Kjeldahl-N () Chemical oxyg demand (00340)	nded)	mg/l mg/l mg/l mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlor: Cos F, A-H ₂ SO ₄ Nitrate-N +, Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N ()	 	.3 mg/l .6 mg/l .6 mg/l .5 .3 .6 mg/l .6 mg/l .7 mg/l .7	2/18 2/20 2/18 3/13, 2/13 2/17
residue (suspe (00530) Other: Other: Other: Nitrate-N + , Ni total (00630) Ammonia-N tot Total Kjeldahl-N () Chemical oxyg demand (00340 Total organic ca () Other: Other:	nded)	mg/l mg/l mg/l mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlorice (00608) Nitrate-N +, Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N () Other:	 	.3 mg/l .6 mg/l .7 mg/l	2/18 2/20 2/18 3/13, 2/18 2/27
residue (suspe (00530) Other: Other: Other: Nitrate-N + Ni total (00630) Ammonia-N tot Total Kjeldahl-N () Chemical oxyg demand (00340 Total organic ca () Other:	nded)	mg/l mg/l mg/l mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlorice (00608) Nitrate-N +, Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N () Other:	 	.3 mg/l .6 mg/l .6 mg/l .5 .3 .6 mg/l .6 mg/l .7 mg/l .7	2/18 2/20 2/18 3/13, 2/13 2/17
residue (suspe (00530) Other: Other: Other: NF, A-H ₂ SO ₄ Nitrate-N + , Ni total (00630) Ammonia-N tot Total Kjeldahl-N () Chemical oxyg demand (00340 Total organic ca () Other: Other:	nded)	mg/l mg/l mg/l mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlorice (00608) Nitrate-N +, Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N () Other:	 	.3 mg/l .6 mg/l .6 mg/l .5 .3 .6 mg/l .6 mg/l .7 mg/l .7	2/18 2/20 2/18 3/13, 2/13 2/17
residue (suspe (00530) Other: Other: Other: Nitrate-N + , Ni total (00630) Ammonia-N tot Total Kjeldahl-N () Chemical oxyg demand (00340 Total organic ca () Other: Other:	nded)	mg/l mg/l mg/l mg/l	Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) Chlorice (00608) Nitrate-N +, Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) Total Kjeldahl-N () Other:	 	.3 mg/l .6 mg/l .6 mg/l .5 .3 .6 mg/l .6 mg/l .7 mg/l .7	2/18 2/20 2/18 3/13, 2/13 2/17

SCIENTI		t Department IN				
	rque. NM 87106 (505) 841-	-2555		and NITR	OGEN ANALY	SIS
ATE RECEIVED 2 10	26 NO. 1411.279		o <u> </u>	THER: 822	235	
	SITE	1		THERM	TAL WEL	۷
liectes by Person/Agency		Callection site description	772556	19.W		VALVE AT
BAILEY / JOHNS	000-000				WELLHER	<u>م</u> ه
ENVÍRO	NMENTAL BUREAU	بالم	-		,	
NO NM OIL	CONSERVATION DI	VISION				
	Land Office Bldg	, PO Box 208	3		t	·
	Fe, NM 87501					
Attn: <u>Davi</u>	ld Boyer					
				Station/ well code		
	NS ·			Owner DALS	E BURGETT	•
Bailed 🕱 Pumi		TIC W.L. 65'	Discharge	1 	Sample type	
Dipped I Tap	DEPTH TO		رم و ٥٥٤	~~~~		
H (00400) 8. / eid comments	Conductivity (Unc	orrected) ارمین µmho	Water Temp. (00010)	48 °C	Conductivity at 25	°C (00094) µmh
IALYTICAL RESULT	, és mu sen est	E F: Filtered in 0.45 μmer	nbrane filter 🗠 A: 😑		_ added みんの	Date analyzed
Conductivity (Corrected		Units Date analyzer	Calcium (00915)			
25°C (00095)	, 	µmho	- Calcium (00925)		mg/l _	
Total non-filterable			C Sodium (00930)		mg/l _	
residue (suspended) (00530)			C Potassium (00935)		mg/l _ mg/l _	
Other: ICAP SCAA	u	. mg/l	Chloride (00940)	-	mg/l _	
Other: Se	A. C. L. C. T.	21/4/26	 Sulfate (00945) Total filterable residue 	,	mg/l _	
Other: Q			(dissolved) (70300)		ma/t	
F, A-H2SO4		<u></u>	C Other:			
Nitrate-N + , Nitrate-N			F. A-H2 SO4			
total (00630) Ammonia-N total (00610		. mg/l	- 🖂 Nitrate-N + , Nitrate-N	N		
Total Kjeldahl-N	у <u>— — — — — — — — — — — — — — — — — — —</u>	, mg/l	dissolved (00631)		mg/i	
()		mg/l	(00608)		mg/l _	
Chemical oxygen demand (00340)		mg/l	🗆 Total Kjeldani-N		• -	
Total organic carbon ()			() C Other:		mg/l	
Other:			Analyst	Date Re	ported Review	ed by
Other:		·		41		ashly
aboratory remarks		. •			7	0

51_D 726 (12/84) DIST	RIBUTION: WHITE - EID.	. GW&HW Bureau	CANARY - WS System	PINK - EIC	Local Office G	OLDENROD -

Lab Number:	279
Date Submitted:	2/10/86
By: Bailey	

Sample ade: Burgett Leothinnall	'n
Date Analyzed: 2/17/86	
Reviewed By: <u></u>	
Date Reported: 4/18/86	

Element	ICAP VALUE(MG/L)	AA VALUE (MG/L)
Aluminum	20.1	
Barium	40.	
Berylium	40.1	
Boron	0.5	
Cadmium	40.1	
Calcium	21	
Chromium	20.	<u> </u>
Cobalt	20.1	<u> </u>
Copper	40.1	
Iron		<u> </u>
Lead		·
Magnesium		
Mangan ese	20.05	
Molybdenum	<u> </u>	
Nickel	40.(· · · · · · · · · · · · · · · · · · ·
Silicon	<u>75.</u>	
Silver	<0.1	
Strontium	0.5	
Tin	20.1	
Vanadium	40.1	
Zinc	20.1	-
Arsenic		0.011
Selenium		<0.005
Mercury		

SCIENTIFIC L 700 Camino de Albuquerque, N	NM 87106 — (505) 8-4-2555	EN G	ar		ISTRY (SIS
	LAB NO. 562 USER 5930	o □ 59600 🖄 c	отнея: 82	235	
Collection DATE / 28 86 Collection TIME 0900	SITE INFORM-	URGETT GEG	OTHERI		
Collected by - Person/Agency BAILEY / JOHNSON		7 T 255 A	<u>196</u>	BYPASS WELLHE	YALVE AT AD
SEND NM OIL COI		8	MPL: PHIS CAL NO 20 H NO. Station/	15 BUFGE	
			well code		
AMPLING CONDITIONS		••••••••••••••••••••••••••••••••••••••	DAL	E BURGETT	
Bailed	Water level STATIC W.L. 65' DEPTH TO WATER 90'	Discharge 300 gp	~~	Sample type	
рн (00400) 8. /	Conductivity (Uncorrected)	Water Temp. (00010)	48 °C	Conductivity at 25	°C (00094) µmho
Field comments	EDE JOHES/ DON -	HEAT CAER			
	FOR IDHRS/DAY TO AT WELLHEAD. T.D.		N NOUSE	<u>. <u>R</u><u>e</u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	
AMPLE FIELD TREATMEN	NT — Check proper boxes				
No. of samples / D N submitted /	IF: Whole sample (Non-filtered in 0.45 μme	field with	mi H₂SO₄/	L added	
💢 NA: No acid added 🛛	Other-specify:				
NALYTICAL RESULTS from	m SAMPLES Units Date analyze			Units	Date analyzed
Conductivity (Corrected)		2 Calcium (00915)	it.l	A REAL PROPERTY OF A REAL PROPER	270
25°C (00095)	µmho	- 💭 Magnesium (00925)	6.34	/ mg/l .	•/
Total non-filterable		j 💭 Sodium (00930) 😥 Potassium (00935)	3.7.2.	. // mg mg	•1
residue (suspended) (00530)	mg/i	🛱 Bicarbonate (00440)		17 mg/1	2/18
Other:		Chloride (00940)		<u>85mg/l</u>	2/20
] Other:		- 20 Total filterable residue		95 mail	3/13
Other:		- (dissolved) (70300)		ingri -	2/18
NF, A-H₂SO₄		X F		<u>.0</u>	2/37
Nitrate-N +, Nitrate-N		F, A-H2 SO4	· · · · · · · · · · · · · · · · · · ·		
total (00630)	mg/l	- 🛛 Nitrate-N + , Nitrate-I	V		
Ammonia-N total (00610) Total Kjeldahl-N	mg/l	- dissolved (00631)		mg/l _	
()	mg/l	 Ammonia-N dissolve (00608) 		mg/i _	<u></u>
Chemical oxygen demand (00340)	mg/l	Total Kjeldahl-N		-	
Total organic carbon	mg/l	- () - □ Other: -		mg/i _ 	
Other:	······	Analyst	Date R	1 1 70	ved by
aboratory remarks				///////////////////////////////////////	
*	•				

LD 726 (12/84) DISTRIBUTI	ION: WHITE - EID, GW&HW Bureau	CANARY - WS System		D Local Office G	OLDENROD - SL

	01.04	AB HM1.23		59600 <u>**</u> X	отн. 82	235	
CTION DATE		SITE	Sample location	RGETT FRES		TER WELL	
ation TIME		ATION	Callection site description				
ted by Person/Agend			Collection site describtion	~ 11/2 mi	WSW	OF GREENHOUS	<u>55</u>
ILEY/JOH	INSOU -	000					
NM L Sta Sar Sar	OIL CON ate Land nta Fe,	NM 87501	IVISION g, PO Box 2088	3			
Απη:	David Boy	yer					
					Station/ well code		
	TIONS				Owner		
	Pump	Water level		Discharge		Sample type	
	Tap			65-76	nape -		
(00400)		Conductivity (Une	corrected) µmho	Water Temp. (00010)	°C	Conductivity at 25 °C (0009-	4) μm
commenta					`		
· /		F: Whole sample	F: Filtered in t			Ladded HNO3	
NA: No acid a	Idded 🗆 (Cther-specify:		field with 🛛 🖾 A: 🛫	2 -mi H₂30 4/	Ladded HNO3	
NA: No acid a	Idded 🗆 (Cther-specify:		nbrane filter 🗠 A: 2	2 mt H ₂ SO ₄ /		natyze
NA: No acid a	added □ (SULTS from µ\\003	Cther-specify:	^Δ , F [:] 0.45 μmer	nbrane filter 🗠 A: 2	<u>2 mt H290</u> 4/		naiyza
NA: No acid a	added □ (SULTS from µ\\003	Cther-specify:	^Δ , F [:] 0.45 μmer	nbrane filter A: 7		Units Date a mg/l mg/l	nałyze
NA: No acid a LYTICAL RES IF. NA F A Conductivity (Corr 15°C (00095)		Cther-specify:	Units Date analyzed	nbrane filter A: 2 1 F NA C Calcium (00915) Magnesium (00925) Sodium (00930)		Units Date a mg/l mg/l	nałyze
NA: No acid a LYTICAL RES IF. NA F A Conductivity (Corr 25 °C (00095) Total non-filterable esidue (suspende	added □ (SULTS from ∠/ ∧) ₹ ected)	Cther-specify:	Units Date analyzed	Imbrane filter A: 2 I F NA I Calcium (00915) I Magnesium (00925) I Sodium (00930) I Potassium (00935))	Units Date a mg/l mg/l mg/l mg/l	naiyz
NA: No acid a NA: No acid a LYTICAL RES IF. NA F A Conductivity (Corr 25 °C (00095) Total non-filterable esidue (suspende 00530)	added □ (SULTS from ↓ ↓ ↓ ∂ ₹ ected)	Cther-specify:	Units Date analyzed	Imbrane filter A: 2 I F,- NA I: Calcium (00915) I: Magnesium (00925) I: Sodium (00930) I: Potassium (00935) I: Bicarbonate (00440))	Units Date a mg/l mg/l mg/l mg/l mg/l mg/l	nałyze
NA: No acid a NA: No acid a NA: No acid a NLYTICAL RES TE NA F A Conductivity (Corr 25 °C (00095) Fotal non-filterable esidue (suspende 00530) Other: / CAF S	Idded () SULTS from () Sected)	T: (Non-filtered) Other-specify: In SAMPLES	Units Date analyzed	Imbrane filter A: 2 I F NA I Calcium (00915) I Magnesium (00925) I Sodium (00930) I Potassium (00935))	Units Date a mg/l mg/l mg/l mg/l	naiyze
NA: No acid a NA: No acid a LYTICAL RES IF. NA F Conductivity (Corr 25 °C (00095) Total non-filterable esidue (suspende 00530) Other: / CAF Other: Sac	idded () SULTS from کریک ع ected)	C	Units Date analyzed μmho mg/l	A: A: <td< td=""><td>)</td><td>Units Date a mg/l mg/l mg/l mg/l mg/l mg/l mg/l </td><td>nałyza</td></td<>)	Units Date a mg/l mg/l mg/l mg/l mg/l mg/l mg/l	nałyza
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NA: No acid a NA: No acid a LYTICAL RES IF, NA IF, NA <	idded () SULTS from کریک ع ected)	C	Units Date analyzed μmho mg/l	Imbrane filter Imbrane filter Imbrane filter Imbrane fi)	Units Date a mg/l	nałyzz
NA: No acid a NA: No acid a LYTICAL RES IF. NA F A Conductivity (Corr 25°C (00095) Total non-filterable esidue (suspende 00530) Dther: / CAF S Dther: Sa Dther: Sa Dther: Co A-H ₂ SO ₄	Idded () SULTS from $\mu/\lambda/0 =$ ected)	C	Units Date analyzed μmho mg/l	Imbrane filter Imbrane filter Imbrane filter Imbrane fi)	Units Date a mg/l	naiyze
NA: No acid a NA: No acid a LYTICAL RES TENA E A Conductivity (Corr 25 °C (00095) Total non-filterable esidue (suspende 00530) Other: / CAP S Other: Sc Other: Sc Other: Sc Other: Co	added □ (SULTS from	C	Units Date analyzed μmho mg/l 	nbrane filter A: Z 4 F NA Calcium (00915) Calcium (00930) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Calciuf filterable residu (dissolved) (70300) Other: F. A-H ₂ SO ₄ F. A-H ₂ SO ₄)))) (e	Units Date a mg/l	nałyze
NA: No acid a NA: No acid a NA: No acid a NLYTICAL RES TRANK F A Conductivity (Corr 25°C (00095) Total non-filterable esidue (suspende 00530) Other: / CAP S Other: Sc Other: Sc Other: Co Nitrate-N + , Nitrational (00630) Ammonia-N total (added □ (SULTS from	C	Units Date analyzed μmho mg/l	A: A: <td< td=""><td>)))) (e</td><td>Units Date a mg/l </td><td></td></td<>)))) (e	Units Date a mg/l	
NA: No acid a NA: No acid a NA: No acid a NITOLAL RES NA: NO acid a NITOLAL RES No acid a Nitrate-N + Nitrational (00630) Ammonia-N total (added □ (SULTS from	(Non-filtered) Other-specify: In SAMPLES	Units Date analyzed μmho mg/l mg/l mg/l mg/l	A: A: <td< td=""><td>)))) (e</td><td>Units Date a mg/l </td><td>naiyza</td></td<>)))) (e	Units Date a mg/l	naiyza
NA: No acid a NA: No acid a NA: No acid a NITOLICAL RES IF. INA F A Conductivity (Corr 25°C (00095) Total non-filterable residue (suspende 00530) Dther: I CAP S Dther: Co A-H2SO. Nitrate-N + , Nitrational (00630) Ammonia-N total (Total Kjeldahl-N)	added □ (SULTS from	(Non-filtered) Other-specify: In SAMPLES	Units Date analyzed μmho mg/l 	A: A: <td< td=""><td>)))) (e</td><td>Units Date a mg/1 </td><td>natyza</td></td<>)))) (e	Units Date a mg/1	natyza
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bmitted / NA: No acid a NA: No acid a NA: No acid a NET Conductivity (Corr 25°C (00095) Total non-filterable residue (suspende (00530) Other: / CAP Other: / CAP Other: Co A-H2SO4 Nitrate-N + Nitrational (00630) Ammonia-N total (0 Total Kjeldahl-N Chemical oxygen demand (00340) Total organic carbo ()	Added □ (SULTS from	C C C C C C C C C C C C C C C C C C C	Image: Market state 0.45 μmer Units Date analyzed μmho	hbrane filter A: Z I F NA Calcium (00915) Calcium (00930) Magnesium (00925) Sodium (00930) Potassium (00935) Blcarbonate (00440) Sulfate (00945) Total filterable residu (dissolved) (70300) Other: F. A-H ₂ SO ₄ Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolv (00608) Total Kjeldahl-N () Other: Other:)))) (e) (e) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c) (c)) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Units Date a mg/l	
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Implemented ////////////////////////////////////	Added □ (SULTS from	C C C C C C C C C C C C C C C C C C C	Units Date analyzed μmho mg/l mg/l mg/l mg/l mg/l mg/l mg/l	hbrane filter A: Z I F NA Calcium (00915) Calcium (00930) Magnesium (00925) Sodium (00930) Potassium (00935) Blcarbonate (00440) Sulfate (00945) Total filterable residu (dissolved) (70300) Other: F. A-H ₂ SO ₄ Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolv (00608) Total Kjeldahl-N () Other: Other:)))) (e) (e) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c) (c)) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Units Date a mg/l	
A. In the second	Added □ (SULTS from	C C C C C C C C C C C C C C C C C C C	Units Date analyzed μmho mg/l mg/l mg/l mg/l mg/l mg/l mg/l	hbrane filter A: Z I F NA Calcium (00915) Calcium (00930) Magnesium (00925) Sodium (00930) Potassium (00935) Blcarbonate (00440) Sulfate (00945) Total filterable residu (dissolved) (70300) Other: F. A-H ₂ SO ₄ Nitrate-N + , Nitrate dissolved (00631) Ammonia-N dissolv (00608) Total Kjeldahl-N () Other: Other:)))) (e) (e) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c)) (c) (c)) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Units Date a mg/l	

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Lab N	Number: <u>H_M 282</u>
Date	Submitted: 2/10/86
By:_	Baily
	· J

I.

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Sample Code: Burgett Fresh Water U
Date Analyzed: 2/17/86
Reviewed By:
Date Reported: 4/18/86

Element	ICAP VALUE (MG/L)	AA VALUE (MG/L)
Aluminum	20.1	
Barium	40.1	
Berylium	40.1	
Boron	20.	
Cadmium	40.]	
Calcium	<u>33.</u>	
Chromium	40.1	
Cobalt	40.)	
Copper	20.	
Iron	40.1	
Lead	<u> </u>	
Magnesium	2.9	
Manganese	40.05	
Molybdenum	40,1	
Nickel	40.1	
Silicon	16.	
Silver	20.	
Strontium	0.2	
Tin	40.1	
Vanadium	20.1	
Zinc	-0.1	
Arsenic		<u><0.005</u> <0.005
Selenium		<0.005
Mercury		

	Albuquero	Jue, NW											
	2 10 8	6 LA	", NC 56		EA DE 🗌 5930	0	59600	, ₩ σ	н 82	2235			
Chin DATE	6		SIT INFORI	¥->		IRG	ETT	FRESH	WA	TER	WE		
			ATIO		ction sile descriptio	ń		· · ·				نند <u>ہی</u> دادد	
ALCEY		U - (200	7			$\sim 1/z$	mi	WSW	of	REEN	14005	ES
ID AL YORT	NM OIL State l	CONS Land	AL BUREAU ERVATION Office B M 87501	DIVIS	ION O Box 208	8							
Attr	n: <u>Davi</u> c	<u>1_Boy</u>	er										
									Station/ veil code				
MPLING CO	ONDITION	15							Dwner				
Bailed Dipped	🕄 Pump 🗌 Tap		Water level			Disc	harge	65-70	gpm	Sample	type		
(00400)			Conductivity (Uncorrect	ed) µmho	Wat	er Temp. (00	0010)	°C	Conduct	ivity at 25	°C (0009	4) μmh
d comments	T.D.	175'	Not	ENO	UGH SA		LE	FOR	FIELD	TES	TS.		
			£								(
APLE FIEL	D TREAT	MENT	- Check p		7		146-						······································
				ala 1/			vitto _	A. A.	10 00	/L added	1		
ubmitted				1) A	F: Filtered in 0.45 µme			A: 211			• 	<u> </u>	
Ibmitted	cid added		(Non-filtered	n 4 ::	r: 0.45 μme	mbrar	ne filter					Date :	Inalvzed
I NA: No ad ALYTICAL	cid added		(Non-filtered	n 4 ::		d F,	ne filter				Units mg/1	Date : 2 -10	inalyzed
Ubmitted E NA: No ac ALYTICAL NF, NA	(Corrected)		(Non-filtered	n 4 ::	r: 0.45 μme	d F,	NA Calcium (C Magnesiun	00915) m (00925)	2,2,7	7	Units mg/l	2-10 11	Inalyzed
NA: No ad ALYTICAL NF. NA Conductivity 25°C (00095) Total non-filte	rable		(Non-filtered	i) (Units	r: 0.45 μme	d F,	NA Calcium (C Magnesiun Sodium (O	00915) m (00925) 0930)	22.7	7	Units mg/l mg/l	2-10 .1 .1	
Ibmitted NA: No ac ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp	rable		(Non-filtered	i) (Units	r: 0.45 μme Date analyze	mbrar d F,	NA Calcium (C Magnesium Sodium (O Potassium Bicarbona	00915) m (00925) 0930) o (00935) ite (00440)	25.7 1.7 1.4.4 1.15	7	Units mg/I mg/I mg/I mg/I	2-10 11 11 11	· .
ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530)	rable		(Non-filtered	i) (Units	r: 0.45 μme Date analyze		NA Calcium (C Magnesium Sodium (O Potassium Bicarbona Chloride (C	00915) m (00925) 0930) 1 (00935) 1te (00440) 00940)	27.7 4.7 1.4.4 1.25 14	7 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	Units mg/l mg/l mg/l mg/l	2-10 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	[20_
ALYTICAL NF, NA Conductivity (25°C (00095) Total non-filte residue (susp (00530) Other:	rable		(Non-filtered	i) (Units	r: 0.45 μme Date analyze		NA Calcium (O Magnesium Sodium (O Potassium Bicarbona Chloride (O Sulfate (O	00915) m (00925) 0930) 1 (00935) 1te (00440) 00940) * 0945)	 	7 ! ! [4, 7 / 8, 6 20, 5	Units mg/I mg/I mg/I mg/I	2-10 .1 .1 .1 .1 .1 .2 .2 .2 .1	1 1 1 2 0 3
ALYTICAL NA: No ac ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other:	rable		(Non-filtered	i) (Units	r: 0.45 μme Date analyze		NA Calcium (O Magnesiun Sodium (O Potassium Bicarbona Chloride (O Sulfate (O Sulfate (O Total filterai (dissolved)	00915) m (00925) 0930) 0 (00935) Ite (00440) 00940) 00940) 0945) ble residue) (70300)	25.7 4.7 14.4 1.25 14 14 14 14 14 14 14 14 14 14 14 14 14	7 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	Units mg/l mg/l mg/l mg/l	2-10 .1 .1 .1 .1 .1 .2 .2 .2 .1	1 1 1 20
ALYTICAL NA: No ad ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other:	rable		(Non-filtered	i) (Units	r: 0.45 μme Date analyze		NA Calcium (0 Magnesium Sodium (0 Potassium Bicarbona Chloride (0 Sulfate (00 Total filtera	00915) m (00925) 0930) 0 (00935) Ite (00440) 00940) 00940) 0945) ble residue) (70300)	25.7 7 7 	7 ! [4, 7 / 8, 6 [0, 5 [0] , 45	Units mg/l mg/l mg/l mg/l mg/l	2-10 .1 .1 .1 .1 .1 .2 .2 .2 .1	18 /20 13
ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: Other:	(Corrected)		(Non-filtered	i) (Units	r: 0.45 μme Date analyze		NA Calcium (O Magnesiun Sodium (O Potassium Bicarbona Chloride (O Sulfate (O Sulfate (O Total filterai (dissolved)	00915) m (00925) 0930) 0 (00935) Ite (00440) 00940) 00940) 0945) ble residue) (70300)	25.7 7 7 	7 ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	Units mg/l mg/l mg/l mg/l mg/l	2-10 .1 .1 .1 .1 .1 .2 .2 .2 .1	1 2 [20 3
ALYTICAL NA: No ad ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + , N total (00630)	(Corrected) (Corrected) (rable bended)		(Non-filtered	i) 4	Γ : 0.45 μme		NA Calcium (O Magnesiun Sodium (O Potassium Bicarbona Chloride (O Sulfate (OO Total filterai (dissolved) Other: C A-H ₂ SO ₄	00915) m (00925) 0930) 0 (00935) Ite (00440) 00940) 00940) 0945) ble residue) (70300)	25.7 7 7 	7 ! [4, 7 / 8, 6 [0, 5 [0] , 45	Units mg/l mg/l mg/l mg/l mg/l	2-10 .1 .1 .1 .1 .1 .2 .2 .2 .1	18 /20 13
Libmitted LNA: No ac ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: AH ₂ SO ₄ Nitrate-N + , N total (00630) Ammonia-N total	rable pended)		(Non-filtered	i) 4	Γ : 0.45 μme		NA Calcium (C Magnesiun Sodium (O Potassium Bicarbona Chloride (C Sulfate (OO Total filterat (dissolved) Other: C A-H ₂ SO ₄ Nitrate-N ⁺ dissolved ()0915) m (00925) 0930) 1 (00935) 1te (00440) 0945) ble residue) (70300) 	25.7 7 7 	7 ! [4, 7 / 8, 6 [0, 5 [0] , 45	Units mg/l mg/l mg/l mg/l mg/l	2-10 .1 .1 .1 .1 .1 .2 .2 .2 .1	18 /20 13
Libmitted LNA: No ac ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: AH ₂ SO ₄ Nitrate-N + , N total (00630) Ammonia-N total	rable pended)		(Non-filtered	i) 4	Γ : 0.45 μme		NA Calcium (C Magnesium Sodium (O Potassium Bicarbona Chloride (C Sulfate (OO Total filterat (dissolved) Other: C A-H ₂ SO ₄ Nitrate-N ⁺ dissolved (Armonia-	00915) m (00925) 0930) a (00935) ate (00440) 00940) 0945) ble residue) (70300) 25 5	25.7 7 7 	7 ! [4, 7 / 8, 6 [0, 5 [0] , 45	Units mg/l mg/l mg/l mg/l mg/l mg/l	2-10 .1 .1 .1 .1 .1 .2 .2 .2 .1	18 /20 13
Libmitted LNA: No ac ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + , N total (00630) Ammonia-N to Total Kjeldahl () Chemical oxy	rable pended) Vitrate-N votal (00610) I-N		(Non-filtered	i) 4	F: 0.45 μme B Date analyze		NA Calcium (C Magnesiun Sodium (O Potassium Bicarbona Chloride (C Sulfate (OO Total filterat (dissolved) Other: C A-H ₂ SO ₄ Nitrate-N ⁺ dissolved (00915) m (00925) 0930) 1 (00935) tite (00440) 0945) ble residue) (70300) 	25.7 7 7 	7 ! [4, 7 / 8, 6 [0, 5 [0] , 45	Units mg/l mg/l mg/l mg/l mg/l mg/l	2-10 .1 .1 .1 .1 .1 .2 .2 .2 .1	18 /20 13
Libmitted Libmitted Link: No ad ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: Other: AH2SO4 Nitrate-N +, N total (00630) Ammonia-N to Total Kjeldahl () Chemical oxy demand (003	rable pended) Nitrate-N total (00610) I-N ygen		(Non-filtered	i) 4	F: 0.45 μme		NA Calcium (C Magnesium Sodium (O Potassium Bicarbona Chloride (C Sulfate (OO Total filterat (dissolved) Other: A-H ₂ SO ₄ Nitrate-N ⁺ dissolved (Armonia- (00608)	00915) m (00925) 0930) 1 (00935) tite (00440) 0945) ble residue) (70300) 	25.7 7 7 	7 ! [4, 7 / 8, 6 [0, 5 [0, 5]	Units mg/l mg/l mg/l mg/l mg/l mg/l	2-10 .1 .1 .1 .1 .1 .2 .2 .2 .1	18 /20 13
Ubmitted ALYTICAL NF, NA Conductivity (25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + , N total (00630) Ammonia-N to Total Kjeldahl () Chemical oxy demand (003 Total organic () Other:	rable pended) Nitrate-N total (00610) I-N ygen		(Non-filtered	1) 4 : Units mg/1 mg/1 mg/1 mg/1	F: 0.45 μme		NA Calcium (O Magnesiun Sodium (O Potassium Bicarbona Chloride (O Sulfate (OO Total filterai (dissolved) Other: C A-H ₂ SO ₄ Nitrate-N ⁴ dissolved (Ammonia- (00608) Total Kjelda (Other:	00915) m (00925) 0930) 1 (00935) tite (00440) 0945) ble residue) (70300) 	27.2 	7 14,7 18,6 20,5 10 .45 7,98	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 	18 /20 13
Libmitted Libmitted Link: No ac ALYTICAL NF, NA Conductivity (25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + , N total (00630) Ammonia-N to Total Kjeldahl () Chemical oxy demand (003 Total organic () Other:	rable pended) Nitrate-N total (00610) I-N ygen		(Non-filtered	1) 4 : Units mg/1 mg/1 mg/1 mg/1	F: 0.45 μme		NA Calcium (C Magnesium Sodium (O Potassium Bicarbona Chloride (C Sulfate (OC Total filteral (dissolved) Other: C A-H ₂ SO ₄ Nitrate-N ⁴ dissolved (Armonia- (00608) Total Kjelda (00915) m (00925) 0930) 1 (00935) tite (00440) 0945) ble residue) (70300) 		7 ! [4, 7 / 8, 6 [0, 5 [0, 5]	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 	17 17
ALYTICAL NF, NA Conductivity 25 °C (00095) Total non-filte residue (susp (00530) Other: Other: Other: Other: A-H ₂ SO ₄ Nitrate-N +, N total (00630) Ammonia-N to Total Kjeldahl () Chemical oxy	rable pended) Nitrate-N total (00610) I-N (gen t40) carbon		(Non-filtered	1) 4 : Units mg/1 mg/1 mg/1 mg/1	F: 0.45 μme		NA Calcium (O Magnesiun Sodium (O Potassium Bicarbona Chloride (O Sulfate (OO Total filterai (dissolved) Other: C A-H ₂ SO ₄ Nitrate-N ⁴ dissolved (Ammonia- (00608) Total Kjelda (Other:	00915) m (00925) 0930) 1 (00935) tite (00440) 0945) ble residue) (70300) 		7 14, 7 18, 6 20, 5 10 , 93 2, 98	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 	1 1 2 1 2 1 7
Ubmitted NA: No ac ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + , N total (00630) Ammonia-N te Total Kjeldahl () Chemical oxy demand (003 Total organic () Other: Oth	rable pended) Nitrate-N total (00610) I-N (gen t40) carbon		(Non-filtered	1) 4 : Units mg/1 mg/1 mg/1 mg/1	F: 0.45 μme		NA Calcium (O Magnesiun Sodium (O Potassium Bicarbona Chloride (O Sulfate (OO Total filterai (dissolved) Other: C A-H ₂ SO ₄ Nitrate-N ⁴ dissolved (Ammonia- (00608) Total Kjelda (Other:	00915) m (00925) 0930) 1 (00935) tite (00440) 0945) ble residue) (70300) 		7 14, 7 18, 6 20, 5 10 , 93 2, 98	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 	17 17
Ubmitted NA: No ac ALYTICAL NF, NA Conductivity 25°C (00095) Total non-filte residue (susp (00530) Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + , N total (00630) Ammonia-N te Total Kjeldahl () Chemical oxy demand (003 Total organic () Other: Oth	rable pended) Nitrate-N total (00610) I-N (gen t40) carbon		(Non-filtered	1) 4 : Units mg/1 mg/1 mg/1 mg/1	F: 0.45 μme		NA Calcium (O Magnesiun Sodium (O Potassium Bicarbona Chloride (O Sulfate (OO Total filterai (dissolved) Other: C A-H ₂ SO ₄ Nitrate-N ⁴ dissolved (Ammonia- (00608) Total Kjelda (Other:	00915) m (00925) 0930) 1 (00935) tite (00440) 0945) ble residue) (70300) 		7 14, 7 18, 6 20, 5 10 , 93 2, 98	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	2-10 	17 17

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	700 Camino de Albuquerque, N	M 87106 — (505) 841	-2555		and NITR	NATER CHEM	
ATE ECEIVED	Agency	ABHN 277 SITE INFORM-D ATION	USER 59300 Sample location	CHARGE FROM	////	235 •	
IND NAL IPORT Attn	NM OIL CON State Land Santa Fe, <u>David Bo</u>	TAL BUREAU SERVATION DI Office Bldg NM 87501	VISION 9, PO Box 2088	8	Station/ well code Owner		
MPLING CC	I Pump	Water level		Discharge		Sample type	
E (00400) H (00400)	 8./	Conductivity (Unc		Water Temp. (00010)	47°°C	Conductivity at 25	°C (00094) µmh
MPLE FIELI	GREGNA	T - Check prop	Pr F. Filtered in		<u>@/@&\$</u>	Ladded HNC	
MPLE FIELI No. of samples submitted	GREGNA D TREATMEN / In Note: No	T — Check prop F: Whole sample (Non-filtered) Other-specify:	er boxes DR 5: Filtered in	field with IX A. 2			
MPLE FIELD No. of samples submitted T NA: No action NALYTICAL 1	<u>екебли</u> D TREATMEN / □ N	T — Check prop F: Whole sample (Non-filtered) Other-specify:	er boxes DR 5: Filtered in	field with RA; 3 mbrane filter			23
MPLE FIELI No. of samples submitted NA: No ac ALYTICAL I	Corrected)	T — Check prop F: Whole sample (Non-filtered) Other-specify:	er boxes ÆF: Filtered in 0.45 μmei	field with mbrane filter d F. NA C Calcium (00915) C Sodium (00925) C Sodium (00930)	mH ₂ SQ ₄ /	Ladded KN c Units mg/l mg/l	Cate analyzed
MPLE FIELI No. of samples submitted NA: No ac IALYTICAL I NF: NA E Conductivity (25°C (00095) Total non-filter residue (susper (00530) Other: ICA A Other: Se	Corrected)	T Check prop F: Whole sample (Non-filtered) Other-specify: n SAMPLES	er boxes E F: Filtered in 0.45 μmer Units Oate analyze μmho 	field with mbrane filter	mH ₂ SQ ₄ /	Ladded KNC Units mg/l mg/l mg/l	Cate analyzed
AMPLE FIELS No. of samples submitted NA: No ac NALYTICAL I NF: NA F Conductivity (25°C (00095) Total non-filter residue (susper (00530) Other: /CA Other: Ca	Corrected)	T Check prop F: Whole sample (Non-filtered) Other-specify: n SAMPLES	er boxes E F: Filtered in 0.45 μmer Units Oate analyzed μmho	field with mbrane filter (CA); 2 (CA);	mH ₂ SQ ₄ /	Ladded KNC Units mg/l mg/l mg/l mg/l	
AMPLE FIELD No. of samples submitted NA: No activited NALYTICAL I NF: NA F Conductivity (25°C (00095) Total non-filter residue (susper (00530) Other: /CA A	Corrected) Corrected	T Check prop F: Whole sample (Non-filtered) Other-specify: n SAMPLES	er boxes E F: Filtered in 0.45 μmer Units Oate analyze μmho 	field with mbrane filter		Ladded KNC Units mg/1 mg/1 mg/1 mg/1 mg/1	Cate analyzed

Lab Number: M 277Date Submitted: 2/10/36By: Bailey - Sample de: <u>Schnuze from Lucaho</u> Date Analyzed: <u>2/17/86</u> Reviewed By: <u><u>addry</u> Date Reported: <u>4/18/86</u></u>

Element	ICAP VALUE(MG/L)	AA VALUE (MG/L)
Aluminum	20.1	
Barium	20.1	
Berylium	<01	
Boron	0.5	
Cadmium	<0.1	
Calcium	21	· · · · · · · · · · · · · · · · · · ·
Chromium		
Cobalt	٢٥.١	
Copper		
Iron	0.2	·
Lead		
Magnesium	0.1	
Manganese	0.05	
Molybdenum		
Nickel	40.1	
Silicon	76	
Silver		
Strontium	0.4	
Tin	20.1	
Vanadium	40.1	
Zinc	<0.	
Arsenic		0.012
Selenium		20,005
Mercury		

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ATE ECEIVED 2 10 86	NO.WC 56	Secola languag	o <u> </u>	THER: 822	235	
/ 28 86		D150	HARGE FROM	n GREE	NHOUSE	*****
0915 Nected by - Person/Agency	ATION	Collection site description				
AICEY / OHNSON	- 000					
	1ENTAL BUREAU CONSERVATION	NUTSTON				
		dg, PO Box 2088	3		· · · · · · · · · · · · · · · · · · ·	
Santa Fe	e, NM 87501					•
Attn: <u>David</u>	Boyer				**-***	
				Station/ well code		
MPLING CONDITIONS	2			Owner	<u></u>	······································
Bailed 🖸 Pump	Water level		Discharge	L	Sample type	<u></u>
Dipped Tap			14/14- Torr - (56-10)	·	On a data set to a set	
1 (00400) 8. /	Conductivity (U	ncorrected)	Water Temp. (00010)	47°°C	Conductivity at 25	۶°C (00094) μmi
id comments			Paucal Fint	A. PC -	TO HEA	
		LATED TH			1º ACA	<i>l</i>
<u>GREGN</u>	NOUSES					
	ENT Obselves	an a a h a waa				
			<u></u>	·		
MPLE FIELD TREATM	NE. Whole sample	e ME. Filtered in f		ml H₂SO₄/L	. added	<u>. </u>
No. of samples submitted /	NF: Whole sample (Non-filtered)	• X F: Filtered in f 0.45 μmen	ield with A: 2 nbrane filter	ml H₂SO₄/L	. added	
No. of samples submitted / 3 X NA: No acid added	NF: Whole sample (Non-filtered)	• X F: Filtered in f 0.45 μmen		ml H₂SO₄/L	. added	······································
No. of samples submitted / S NA: No acid added ALYTICAL RESULTS f	NF: Whole sample (Non-filtered)	• ξ F: Filtered in f 0.45 μmen	nbrane filter 🗆 A: Z	ml H₂SO₄/L		Date analyzed
No. of samples submitted / X NA: No acid added ALYTICAL RESULTS f NF, NA	NF: Whole sample (Non-filtered)	• X F: Filtered in f 0.45 μmen	IF, NA	ml H₂SO₄/L 3 2.4	Units	Date analyzed J-10
Io. of samples ubmitted / S & NA: No acid added ALYTICAL RESULTS f NF, NA	NF: Whole sample (Non-filtered)	• ξ F: Filtered in f 0.45 μmen	F, NA Implementation Implementation <td><u> </u></td> <td>Units 2mg/I 2mg/I</td> <td>J-10 ''</td>	<u> </u>	Units 2mg/I 2mg/I	J-10 ''
Io. of samples ubmitted / R NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25°C (00095) Total non-(ilterable	NF: Whole sample (Non-filtered)	e K F: Filtered in f 0.45 μmen Units Date analyzed	F, NA Image: Calcium (00915) Image: Magnesium (00925) Image: Sodium (00930)	<u> </u>	Units 2 mg/l 4 mg/l 6 mg/l	2-10
Io. of samples ubmitted / R NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25°C (00095) Total non-(ilterable residue (suspended)	NF: Whole sample (Non-filtered)	• F: Filtered in f 0.45 μmen Units Date analyzed	F, NA Implementation Implementation<	<u> </u>	Units 2 mg/l 4 mg/l 6 mg/l 7 mg/l 7 mg/l	2-10
lo. of samples ubmitted / R NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25 °C (00095) Total non-filterable residue (suspended) (00530)	NF: Whole sample (Non-filtered)	e K F: Filtered in f 0.45 μmen Units Date analyzed	F. NA Price Magnesium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940)	<u> </u>	Units 2 mg/l 3 mg/l 4 mg/l 5 mg/l 5 mg/l 2 4 mg/l	2-10 " " " " " " " " " " " " " " " " " "
lo. of samples ubmitted / NA: No acid added ALYTICAL RESULTS f NF. NA Conductivity (Corrected) 25 °C (00095) Total non-filterable residue (suspended) (00530) Other: Other:	NF: Whole sample (Non-filtered)	• F: Filtered in f 0.45 μmen Units Date analyzed	F, NA Implementation Implementation<	<u> </u>	Units 2 mg/l 4 mg/l 6 mg/l 7 mg/l 7 mg/l 2 4 mg/l 3 7 mg/l	λ-10 " " " " " " " " " "
o. of samples ubmitted / S NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25 °C (00095) Total non-filterable residue (suspended) (00530) Other: Other:	NF: Whole sample (Non-filtered)	• F: Filtered in f 0.45 μmen Units Date analyzed	F, NA Improve Calcium (00915) Improve Calcium (00915) Improve Calcium (00930) Improve Calcium (00940) Imp	<u>32.0</u> 4.22 103. 19.0 97 97 53	Units 2 mg/l 4 mg/l 6 mg/l 7 mg/l 7 mg/l 2 4 mg/l 3 7 mg/l	2-10 " " " " " " " " " " " " " " " " " " "
o. of samples ubmitted / S NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25°C (00095) Total non-filterable residue (suspended) (00530) Other: Other:	NF: Whole sample (Non-filtered)	• F: Filtered in f 0.45 μmen Units Date analyzed	F, NA Improve Calcium (00915) Improve Calcium (00915) Improve Calcium (00930) Improve Calcium (00940) Improve Calcium (00940) Improve Calcium (00945)	<u>32.0</u> 4.22 103. 19.1 91. 53 111 00	Units 2 mg/l 3 mg/l 6 mg/l 6 mg/l 7 mg/l 2 4 mg/l 3 7 mg/l 5 mg/l	2-10 " " " " " " " " " " " " " " " " " "
Io. of samples ubmitted / R NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25 °C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: Other:	NF: Whole sample (Non-filtered)	• F: Filtered in f 0.45 μmen Units Date analyzed	F, NA Image: Calcium (00915) Image: Calcium (00915) Image: Calcium (00925) Image: Calcium (00930) Image: Calcium (00940)	<u>32.0</u> 4.22 103. 19.0 97 97 53	Units 2 mg/l 3 mg/l 6 mg/l 6 mg/l 7 mg/l 2 4 mg/l 3 7 mg/l 5 mg/l	2-10 1 1 2/10 2/20 2/20 2/28 3/13
Io. of samples ubmitted / R NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25 °C (00095) Total non-filterable residue (suspended) (00530) Other: Oth	NF: Whole sample (Non-filtered)	F: Filtered in f 0.45 μmen Units Date analyzed μmho mg/l mg/l	F, NA Improve Calcium (00915) Improve Calcium (00915) Improve Calcium (00925) Improve Calcium (00930) Improve Calcium (00940) Improve Calcium (00945) Imp	<u>32.0</u> 4.22 103. 19.0 97 97 53 111 00 111	Units 2 mg/l 3 mg/l 6 mg/l 6 mg/l 7 mg/l 2 4 mg/l 3 7 mg/l 5 mg/l	2-10 1 1 2/10 2/20 2/20 2/28 3/13
Io. of samples ubmitted / R NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25 °C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610)	NF: Whole sample (Non-filtered)	• F: Filtered in f 0.45 μmen Units Date analyzed μmho	hbrane filter A: 2 F, NA Calcium (00915) Agnesium (00925) Sodium (00930) Potassium (00930) Potassium (00935) Bicarbonate (00440) Sulfate (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: O330 Nitrate-N + , Nitrate-N dissolved (00631)	<u>32.0</u> <u>41.20</u> <u>10.5.</u> <u>19.1</u> <u>9.5</u> <u>55</u> <u>111</u> <u>00</u> <u>11.7</u>	Units 2 mg/l 3 mg/l 6 mg/l 6 mg/l 7 mg/l 2 4 mg/l 3 7 mg/l 5 mg/l	2-10 1 1 2/10 2/20 2/20 2/28 3/13
lo. of samples ubmitted / NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25 °C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + . Nitrate-N total (00630)	NF: Whole sample (Non-filtered)	F: Filtered in f 0.45 μmen Units Date analyzed μmho mg/l mg/l mg/l mg/l mg/l	F, NA Improved Control Improved Contre <t< td=""><td><u>32.0</u> <u>41.20</u> <u>10.5.</u> <u>19.1</u> <u>9.5</u> <u>55</u> <u>111</u> <u>00</u> <u>11.7</u></td><td>Units 2 mg/l 3 mg/l 6 mg/l 7 mg/l 7 mg/l 3 7 mg/l 5 mg/l 7 mg/l 7 mg/l 7 mg/l</td><td>2-10 1 1 2/10 2/20 2/20 2/28 3/13</td></t<>	<u>32.0</u> <u>41.20</u> <u>10.5.</u> <u>19.1</u> <u>9.5</u> <u>55</u> <u>111</u> <u>00</u> <u>11.7</u>	Units 2 mg/l 3 mg/l 6 mg/l 7 mg/l 7 mg/l 3 7 mg/l 5 mg/l 7 mg/l 7 mg/l 7 mg/l	2-10 1 1 2/10 2/20 2/20 2/28 3/13
Io. of samples ubmitted / R NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25 °C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + . Nitrate-N total (00630) Ammonia-N total (00510) Total Kjeldahi-N () Chemical oxygen	NF: Whole sample (Non-filtered)	F: Filtered in f 0.45 μmen Units Date analyzed μmho mg/l mg/l mg/l mg/l	hbrane filter A: 2 F, NA Calcium (00915) Agnesium (00925) Sodium (00930) Potassium (00930) Potassium (00935) Bicarbonate (00440) Sulfate (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: O330 Nitrate-N + , Nitrate-N dissolved (00631)	<u>32.0</u> <u>41.20</u> <u>10.5.</u> <u>19.1</u> <u>9.1</u> <u>9.1</u> <u>5.5</u> <u>111</u> <u>00</u> <u>11.7</u>	Units 2 mg/l 3 7 mg/l 3 7 mg/l	2-10 1 1 2/10 2/20 2/20 2/28 3/13
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lo. of samples ubmitted / R NA: No acid added ALYTICAL RESULTS f NF, NA Conductivity (Corrected) 25 °C (00095) Total non-filterable residue (suspended) (00530) Other: Other: Other: Other: A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahi-N () Chemical oxygen demand (00340) Total organic carbon () Other: Other: Other: Cher: Chemical oxygen demand (00340) Chemical oxygen demand (00340) Total organic carbon () Other: Other: Cher: Cher: Cher: Cher: Cher: Cher: Cher: Cher: Cher: Chemical oxygen Chemical oxygen Cher: Cher	NF: Whole sample (Non-filtered)	F: Filtered in f 0.45 μmen Units Date analyzed μmho mg/l mg/l mg/l mg/l mg/l mg/l	F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Sodium (00930) Potassium (00935) Soliarbonate (00440) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: C3 K F. A-H2 SO4 Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolver (00608) Total Kjeldahl-N ((Other:	<u> </u>	Units 2 mg/l 4 mg/l 4 mg/l 5 mg/l 2 4 mg/l 3 7 mg/l 5 mg/l 7 mg/l 7 mg/l 7 mg/l 7 mg/l	$\frac{2.10}{1}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{8}$ $\frac{3}{13}$ $\frac{2}{27}$
Io. of samples ubmitted / INPA: No acid added ALYTICAL RESULTS f 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) Total organic carbon () Other:	NF: Whole sample (Non-filtered)	F: Filtered in f 0.45 μmen Units Date analyzed μmho mg/l mg/l mg/l mg/l mg/l mg/l	F. NA Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Sodium (00930) Potassium (00935) Soliarbonate (00440) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: C3 K F. A-H2 SO4 Nitrate-N + , Nitrate-N dissolved (00631) Ammonia-N dissolver (00608) Total Kjeldahl-N ((Other:	<u> </u>	Units 2 mg/l 3 mg/l 4 mg/l 5 mg/l 3 7 mg/l 5 mg/l 7 mg/l 7 mg/l 7 mg/l 7 mg/l 7 mg/l 7 mg/l 7 mg/l	2-10 1 1 2/17 2/20 2/18 3/13 2/27 Freed by

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ENVIRONMENTAL BUREAU		<u>st of</u>	BURGE	TT FACILIT
ND NM OIL CONSERVATION DIVISION AL State Land Office Bidg, PO Box 20 PORT Santa Fe, NM 87501	88		·····	
Attn: <u>David Boyer</u>				······
		Station/ well code Owner		
MPLING CONDITIONS				
Bailed C Pump Water level Dipped 2 Tap	Discharge		Sample type	
1 (00400) 7.4 Conductivity (Uncorrected) 24/μmho	Water Temp. (00010)	// °C	Conductivity a	t 25°C (00094) µп
	ad F. NA		Un	its Date analyza
NG TA HNOZ Units Date analyz	Calcium (00915)		Uni mg mg	j/l
NF.TM F A H NO Units Date analyz Conductivity (Corrected) 25°C (00095)	Calcium (00915) C Magnesium (00925) Sodium (00930)		mg mg mg	g/l g/l g/l
NF.TM F A H NO 3 Units Date analy; Conductivity (Corrected) 25 °C (00095)	Calcium (00915) C Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440)		mg mg mg mg mg mg mg	2/1 2/1 2/1 2/1 2/1
NS:MA F A H NO3 Units Date analyz Conductivity (Corrected) 25°C (00095)	 Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) 		mg	g/i g/i g/i g/i g/i
NF.THA F A H NO 3 Units Date analy; Conductivity (Corrected) 25 °C (00095)	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300)		mg mg mg mg mg mg mg	j/i
NF. TA F A H NO3 Units Date analyz Conductivity (Corrected) 25°C (00095) μ mho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other:		mg mg mg mg mg	j/i
NF.WA F A H NO3 Units Date analyz Conductivity (Corrected) 25°C (00095) μ mho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00940) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F. A-H ₂ SO ₄		mg mg mg mg mg	j/i
NF.THA F A H NO3 Units Date analys Conductivity (Corrected) 25°C (00095) μ mho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00940) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F. A-H ₂ SO ₄ Nitrate-N +, Nitrate-N		mg	j/1
NF.WA F A H NO 3 Units Date analyz Conductivity (Corrected) 25°C (00095)	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00940) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F. A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved		mg mg mg mg mg mg	j/1
Conductivity (Corrected)	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F. A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631)		mg mg mg mg mg mg mg mg	j/1
NF.WA F A H.NO3 Units Date analys Conductivity (Corrected) 25°C (00095)	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F. A-H ₂ SO ₄ Nitrate-N +, Nitrate-N dissolved (00631) Ammonia-N dissolved (00608)		mg mg mg mg mg mg	j/1
NF.THA F A H NO 3 Units Date analys Conductivity (Corrected) 25°C (00095) mho	Calcium (00915) Magnesium (00925) Sodium (00930) Potassium (00935) Bicarbonate (00440) Chloride (00940) Chloride (00945) Total filterable residue (dissolved) (70300) Other: F. A-H ₂ SO ₄ Nitrate-N + Nitrate-N dissolved (00631) Ammonia-N dissolved (00608) Total Kjeldahl-N ()		mg mg mg mg mg mg mg mg mg mg	j/1

Sab Number: 128/
Date Submitted: 2/10/86
By: Bailey

e: Valley View Comm. Chu Sample Date Analyzed: 2/17/86 Reviewed By: Paller 36 4/18 Date Reported

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Element	ICAP VALUE (MG/L)	AA VALUE (MG/L)
Aluminum	20.1	
Barium	40.1	
Berylium	40.1	
Boron	<0.1	
Cadmium	40.1	
Calcium	26.	
Chromium	40.1	
Cobalt	<0.1	
Copper	<0.(
Iron	<0.1	·
Lead	<0.	
Magnesium	2.3	
Mangan ese	40.05	
Molybdenum	20.1	
Nickel	<u> ~0.(</u>	
Silicon	16.	
Silver		
Strontium	0.2	
Tin	20.1	
Vanadium	<0.1	·····
Zinc	0.4	
Arsenic		<u><0.005</u> <0.005
Selenium		<0.005
Mercury		

ATE 2 DI /-	ويروي ويستركب ويتروي ويترافي ويترو					
ECEIVED 2 10	186 NO.WC	561 CODE 59300	o □ 59600 🕅	лн 82	235	
1 28 86	IN	SITE Sample location	LLEY VIEW	comm	MITY C	HURCH
1030	,	Collection site description			, 	
Hected by - Person/Agency	SON - OCA		~ zmi We	EST OF	BURGETT	FACILITIE
, <u> </u>]	······	······································
	RONMENTAL BUR					
IAL Stat	IL CONSERVATE e Land Office	e Bldg, PO Box 2088	8			·····
	a Fe, NM 8750					
Attn:Da	vid Boyer	*****				
				Station/		
MBI INC CONDIT				well code Owner		
Bailed D		ei	Discharge		Sample type	
Dipped 02 Ta						<u> </u>
H (00400) 7.	Conducti	vity (Uncorrected) 24/μmho	Water Temp. (00010)	// °C	Conductivity at 25	ec (00094) µmhc
eid comments		<u> </u>		// -		
	······				*****	
MPLE FIELD TRE	ATMENT - Che	ck proper boxes				
No. of samples		sample F: Filtered in		mi H ₂ SO ₄ /	L added	
submitted /	(Non-fi		nbrane filter			
X NA: No acid add		юíгу: 				
ALYTICAL RESU	TS from SAMPL	ES Units Date analyzed			Units	Date analyzed
Conductivity (Correct		Units Date analyzed	2 Calcium (00915)	.5	<u>2.1</u> mg/l	2-10
25°C (00095)		µmho	Magnesium (00925)	6	. <u>44</u> mg/l .	+1
Total non-filterable			紀 Sodium (00930) 夏 Potassium (00935)		<u><.2</u> mg/ł .	<u>F</u>
residue (suspended) (00530)					/7 ma/l	•/
		ma/i	Bicarbonate (00440)		72 mg/l 3.7 mg/l	2/18
Other:		mg/l	Bicarbonate (00440)		3.7 mg/l 8.6 mg/l	
Other:	· · · · · · · · · · · · · · · · · · ·	mg/l	교 Bicarbonate (00440) 국 Chloride (00940) 교 Sulfate (00945) 국 Total filterable residue	•	$\frac{3.7}{8.6}$ mg/l $\frac{5/.9}{100}$ mg/l 2.58	Z-[1% 2/20 2/18
		mg/t 	☑ Bicarbonate (00440) ☑ Chloride (00940) ☑ Chloride (00945) ☑ Sulfate (00945) ☑ Total filterable residue (dissolved) (70300)	·	3.7 mg/l 8.6 mg/l	2/18
Other:		mg/l	 ☑ Bicarbonate (00440) ☑ Chloride (00940) ☑ Sulfate (00945) ☑ Total filterable residue (dissolved) (70300) ☑ Other: CO₃ ✓ F 		5.7 mg/l . 8.6 mg/l . 57.9 mg/l . 2.58 mg/l .	2/18 2/20 2/18 3/13
Other: Other: F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N			 ☑ Bicarbonate (00440) ☑ Chloride (00940) ☑ Sulfate (00945) ☑ Total filterable residue (dissolved) (70300) ☑ Other: CO₃ ☑ F F, A-H₂ SO₄. 		<u>5.7</u> mg/l <u>8.6</u> mg/l <u>5/.9</u> mg/l 258 ma/l	2/18 2/20 2/18 2/18 3/13 2/18
Other: Other: F, A-H ₂ SO ₄		mg/l	Bicarbonate (00440) G Bicarbonate (00940) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) ① Other: CO ₃ X F F, A-H ₂ SO₄ Other: N +, Nitrate-		57.7 mg/l 8.6 mg/l 57.9 mg/l 2.58 mg/l .0 ./7	2/18 2/20 2/18 2/18 3/13 2/18
Other: Other: F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630)		mg/ł	Bicarbonate (00440) G Bicarbonate (00940) Chloride (00945) Sulfate (00945) Total filterable residue (dissolved) (70300) (2 Other: CO3 X F F, A-H2 SO4 Nitrate-N +, Nitrate-I dissolved (00631) Ammonia-N dissolve		<u>57.7</u> mg/l <u>8.6</u> mg/l <u>57.9</u> mg/l <u>2.58</u> mg/l <u>.0</u> <u>./7</u> mg/l	2/18 2/20 2/18 3/13 2/13 2/13
Other: Other: F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (006 Total Kjeldahl-N () Chemical oxygen		mg/l mg/l mg/l	☑ Bicarbonate (00440) ☑ Chloride (00940) ☑ Sulfate (00945) ☑ Total filterable residue (dissolved) (70300) I ☑ Other: Cog X F F, A-H2 SO4. F I Nitrate-N + , Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) I		57.7 mg/l 8.6 mg/l 57.9 mg/l 2.58 mg/l .0 ./7	2/18 2/20 2/18 2/18 3/13 2/18
Other: Other: F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (006 Total Kjeldahl-N () Chemical oxygen demand (00340)		mg/ł	 		<u>57.7</u> mg/l <u>8.6</u> mg/l <u>57.9</u> mg/l <u>2.58</u> mg/l <u>.0</u> <u>./7</u> mg/l	2/18 2/20 2/18 2/18 3/13 2/18
Other: Other: F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (006 Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbon ()		mg/l mg/l mg/l	☑ Bicarbonate (00440) ☑ Chloride (00940) ☑ Sulfate (00945) ☑ Total filterable residue (dissolved) (70300) I ☑ Other: Cog X F F, A-H2 SO4. F I Nitrate-N + , Nitrate-I dissolved (00631) Ammonia-N dissolve (00608) I		53.7 mg/l 8.6 mg/l 5/.7 mg/l 2.58 ma/l .0 mg/l .17 mg/l mg/l	2/18 2/20 2/18 2/18 3/13 2/18
Other: Other: F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (006 Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbon () Other:		mg/l mg/l mg/l mg/l	 		3.7 mg/l 8.6 mg/l 5/.7 mg/l 2.58 mg/l .0 mg/l .17 mg/l	2/18 2/20 2/18 3/13 2/18 1/27
Other: Other: F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (006 Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbon () Other: Other:		mg/l mg/l mg/l mg/l	Bicarbonate (00440) G Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: CO ₃ X		3.7 mg/l 8.6 mg/l 5/.7 mg/l 2.58 ma/l .0 mg/l .17 mg/l mg/l mg/l mg/l	2/18 2/20 2/18 3/13 2/18 1/27
Other: Other: F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (006 Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbon () Other:		mg/l mg/l mg/l mg/l	Bicarbonate (00440) G Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: CO ₃ X		3.7 mg/l 8.6 mg/l 5/.7 mg/l 2.58 mg/l .0 mg/l .17 mg/l	2/18 2/20 2/18 3/13 2/18 1/27
Other: Other: F, A-H ₂ SO ₄ Nitrate-N + , Nitrate-N total (00630) Ammonia-N total (006 Total Kjeldahl-N () Chemical oxygen demand (00340) Total organic carbon () Other: Other:		mg/l mg/l mg/l mg/l	Bicarbonate (00440) G Chloride (00940) Sulfate (00945) Total filterable residue (dissolved) (70300) Other: CO ₃ X		3.7 mg/l 8.6 mg/l 5/.7 mg/l 2.58 mg/l .0 mg/l .17 mg/l	2/18 2/20 2/18 3/23 2/18 1/27

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Appendix **A**

Water Chemistry Analysis, Domestic Water Well (Beall)





Soil and Plant Lobonatory, Inc. Member of The California Association of Agricultural Laboratories

P.O. Box 11744, Santa Ana, California 92711-1744 (714) 558-8333 Telux Number: IRIN 678-P.O. Pox 153 Santa Clara, California S552-0153 (408) 727-0330 C. O. Rox 1548, Bellevue, Washington 98009-1648 (206) 746-6665

Beall Company of New St. Route 260B Animas, NM 88020	Mexico ER AGRICULTURAL SI (A7)	Santa Ana Office Lab. No. 69965 April 25, 1984
Sample Designation: Sample number: Sample received:	Water 1 4-18-84	255 19 5007 .221

CATIONS	ppm	me/1	ANIONS		-ppm	me/1
Sodium (Na)	68	2. 96	Chloride	(C1)	22	0.62
Calcium (Ca)	52	2.60	Sulfate	(SO_4)	115	2.40
Magnesium (Mg)	б	0.50	Bicarbonate	(HCO3)	177	2.90
Potassium (K)	2	0,05	Carbonate	(Ლ3)	0	0
		•	Nitrate	(NO3)	5	0.09
				•		
Sum of cations		6.11	Sum of anions		6.01	
Bydrogen Ion Activity	(pH)	7.1	Copper (Cu)	*		
Equilibrium Reaction	(pHc)	7.58	Zinc (Zn)	0.06		
Electrical Conductivity	(ECx10 ³)	0.60	Manganese (Mn)	0.05		
Adjusted Sodium	(SAR _{adj})	4.33	Iron (Fe)	0.14		
Adsorption Ratio			Boron (B)	0.08		
			Fluoride (F)	0.88		
			Lithium (Li)	0.04		

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	Rea	11. P.			FORMATION	Owner		
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